UNIVERSITY OF NEVADA BULLETIN

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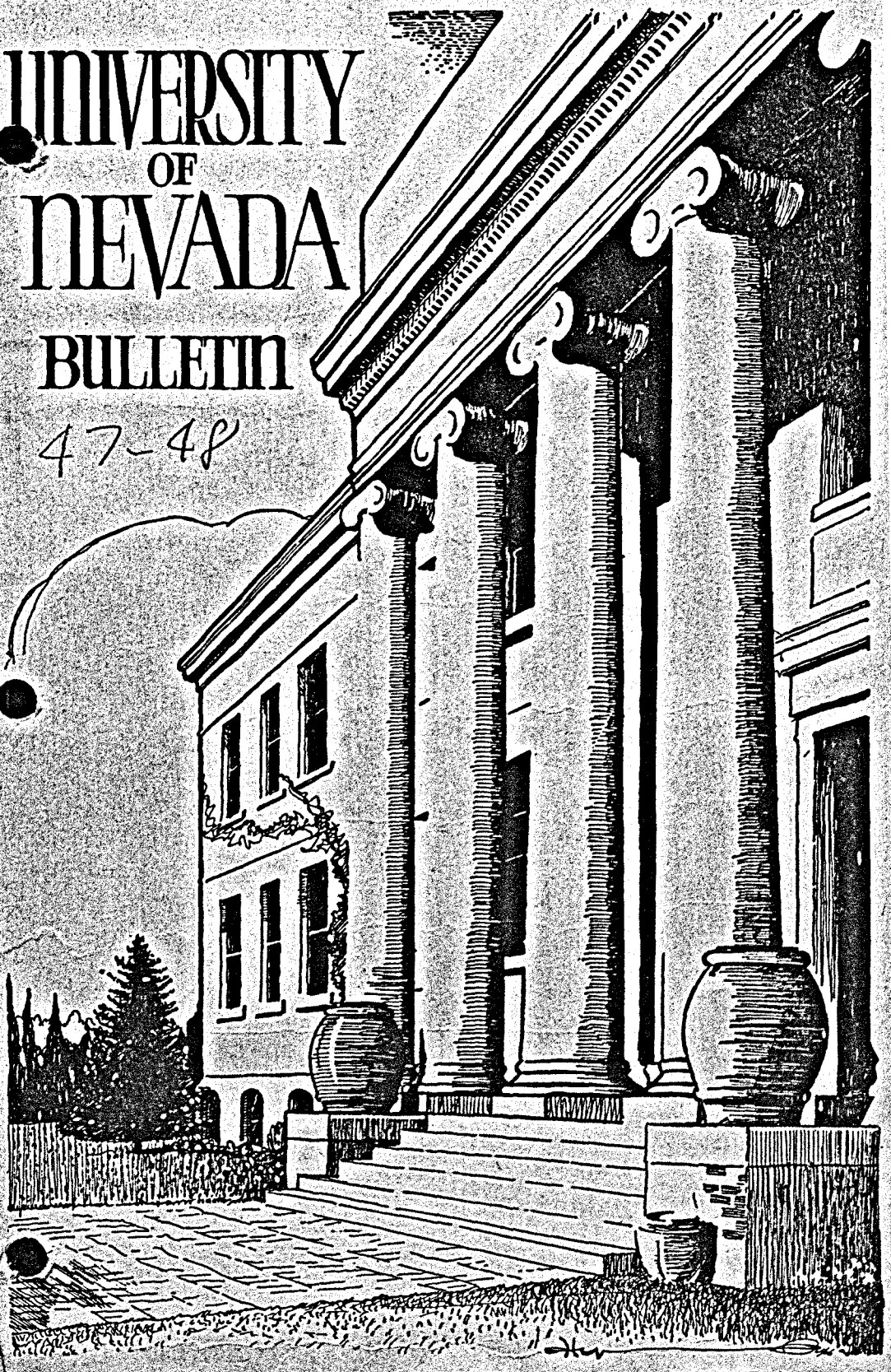
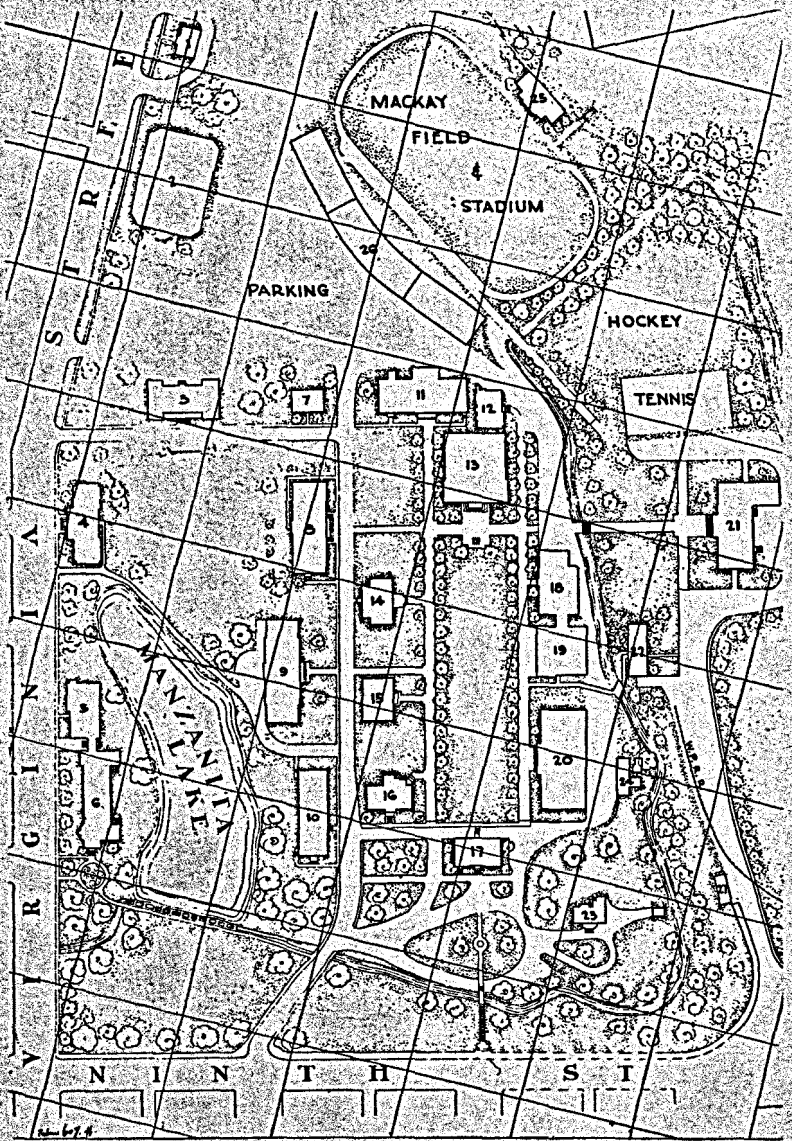


VOLUME XLI JUNE 1947 NUMBER 4



1. Hatch Station
2. New Gymnasium
3. Lincoln Hall
4. Artemisia Hall
5. Dining Hall
6. Manzanita Hall
7. Hospital
8. Education Building
9. Agriculture Building
10. Library
11. Old Gymnasium
12. U.S. Bureau of Mines
13. Mackay School of Mines
14. Agricultural Extension Building
15. Hall of English
16. Stewart Hall
17. Morrill Hall
18. Electrical Building
19. Mechanical Building
20. Mackay Science Hall
21. Engineering Building
22. Veterinary Science Building
23. President's Home
24. Greenhouse
25. Training Quarters
26. Stadium
27. Garage

University of Nevada Bulletin

CATALOGUE

ANNOUNCEMENTS

FOR

1947-1948

WITH

RECORD FOR 1946-1947

VOLUME XLI JUNE 1947 NO. 4

Published quarterly by the University of Nevada, Reno, Nevada, and entered in the Post Office at Reno, Nevada, as second-class matter under Act of Congress, July 16, 1894. Acceptance for mailing at special rate of postage provided for in section 1103, Act of October 3, 1917, authorized April 21, 1919.

CARSON CITY, NEVADA
STATE PRINTING OFFICE - - JACK McCARTHY, SUPERINTENDENT
1947

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OFFICE OF THE
BOARD OF REGENTS, UNIVERSITY OF NEVADA
RENO, NEVADA, June 15, 1947

To His Excellency, VAIL PITTMAN, *Governor of the State of Nevada.*

SIR: The Regents of the University of Nevada have the honor to submit herewith the Annual Catalogue of the University, giving the records for the year 1946–1947, containing the courses of study, general information, the membership of the Faculty, and the enrollment of the students, as required by the Act of the Legislature, approved March 6, 1901.

By the Board of Regents:

SILAS E. ROSS,
Chairman.

ALICE TERRY, *Secretary.*

1947

JANUARY

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UNIVERSITY CALENDAR

1947–1948

First Semester

September 12	Friday	First meeting of faculty.
September 13	Saturday	Dormitories open.
September 14	Sunday, 3 p. m.	President's reception and outdoor entertainment for new students.
*September 15–16	Monday-Tuesday	Orientation of new students.
September 15	Monday, 7 p. m.	Freshman mixer.
September 17	Wednesday	Registration.
September 18	Thursday	Instruction begins.
October 25	Saturday	Homecoming.
October 31	Friday	Admission Day.
November 15	Saturday	Grade reports due.
November 26–December 1	Wedesday, 4 p. m.–Monday, 8 a. m.	Thanksgiving recess.
December 20	Saturday, noon	Christmas vacation begins.
December 20	Saturday, noon	Dormitories close.
January 3	Saturday	Dormitories open.
January 5	Monday, 8 a.m.	Instruction begins.
January 26–30	Monday-Friday, noon	Semester examinations.
January 30	Friday, noon	First semester closes.
January 31	Saturday, noon	Final grades on file with the Registrar.

Second Semester

February 3	Tuesday, 9 a. m.	Mental tests for new students.
February 3	Tuesday, 2 p. m.	Examinations in English for all new students.
February 4	Wednesday	Registration.
February 5	Thursday	Instruction begins.
March 24–31	Wednesday, 4 p. m.–Wednesday, 8 a. m.	Easter recess.
April 10	Saturday	Grade reports due.
May 1	Saturday	Mackay Day.
May 15	Saturday	Engineer's Day.
May 31	Monday	Holiday.
June 1–5	Tuesday-Saturday	Semester examinations.
June 4	Friday	Meeting of Honorary Board of Visitors.
June 5	Saturday, noon	Second semester closes.
June 5	Saturday evening	Phi Kappa Phi banquet and address.
June 5	Saturday, noon	Dormitories close.
June 6	Sunday	Baccalaureate address.
June 7	Monday	Commencement.
June 9	Wednesday, 9 a. m.	Final grades on file with the Registrar.

Summer Sessions

June 9	Wednesday	First term begins.
July 16	Friday	First term ends.
July 19	Monday	Second term begins.
August 27	Friday	Second term ends.

*All new students are expected to be present at the New Gymnasium at 7:45 a. m. Monday, September 15, at which time required mental tests and examinations in English will be given.

Officers of the University

The Board of Regents

Hon. Chris H. Sheerin (1951) ..... Elko
Hon. John Cahlan (1951) ..... Las Vegas
Hon. Albert Hilliard (1951) ..... Reno
Hon. Mary Henningsen (1949) ..... Gardnerville
Hon. Silas E. Ross (1949) ..... Reno

OFFICERS OF THE BOARD

Hon. Silas E. Ross, Chairman ..... Reno
Miss Carolyn M. Beckwith, Secretary Emeritus ..... San Francisco
Miss Alice Terry, Secretary ..... Reno

COMMITTEES OF THE BOARD

Executive Committee—Silas E. Ross, Mary Henningsen, Albert Hilliard.
Property Committee—Silas E. Ross, Albert Hilliard.
Instruction Committee—Chris H. Sheerin.
Library Committee—Albert Hilliard.
Student-Welfare Committee—Mary Henningsen, John Cahlan.

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Mrs. Rose C. Ullom ..... Las Vegas, Clark County
Mrs. M. Jensen ..... Gardnerille, Douglas County
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CHARLES H. GORMAN, Honorary M.S., LL.D., Vice President, Comptroller and Treasurer.
MRS. JEANETTE C. RHODES, B.A., Registrar.
JAMES J. HILL, M.A., B.S in L.S., Director of Libraries.
JOSEPH D. LAYMAN, B.L., Librarian Emeritus.
WALTER S. PALMER, E.M., Curator of the Mackay Museum.
ANDREW C. RICE Ph.D., Acting Supervising Engineer, United States Bureau of Mines Experiment Station.
ROBERT S. GRIFFIN, Ph.D., Dean of Men; Coordinator of Veterans Affairs.
MISS ELAINE MOBLEY, M.A., Dean of Women.
MERYL W. DEMING, Ph.D., Director of Admissions; Director of Correspondence Study.
PERRY HAYDEN, B.A., Assistant to the Comptroller.
GEORGE R. MAGEE, M.D., University Physician.
MRS. PETRA PHILLIPS, R.N., Head Nurse, University Infirmary.
VILMA HOKHOLD, R.N., Relief Nurse, University Infirmary.
MRS. FLORENCE PEACOCKE, Hostess of Artemisia Hall.
MRS. MABEL FULTON, Hostess of Manzanita Hall.
CLARENCE E. BYRD, M.A., Administrative Assistant to the Dean of Agriculture.
LEGRAND WALKER, B.S., Manager, University Farms.
CARL M. HORN, Superintendent of Maintenance.

Colleges and Schools—

FREDRICK WOOD, Ph.D., Dean of the College of Arts and Science.
STANLEY G. PALMER, M.E., Dean of the College of Engineering.
CECIL W. CREEL, Agr.D., Dean of Agriculture.
FRED W. TRANER, Ph.D., Dean of the School of Education.
JAY A. CARPENTER, E.M., Director of the Mackay School of Mines.
FREDERICK W. WILSON, M.S., Director of Resident Teaching in Agriculture.
HAROLD N. BROWN, Ed.D., Director of Summer Sessions.

Public Service Division—

WALTER S. PALMER, E.M., Director of the State Analytical Laboratory.
EDWARD RECORDS, V.M.D., Director of Veterinary Control Service.
WAYNE B. ADAMS, B.S., Commissioner of Food and Drugs Control and Weights and Measures.
SAMUEL BRADFORD DOTEN, M.A., Director of the Agricultural Experiment Station, Emeritus.
CECIL W. CREEL, Agr.D., Director of Agricultural Extension.
JAY A. CARPENTER, E.M., Director of State Bureau of Mines.
C. E. FLEMING, B.S.A., Director of the Agricultural Experiment Station.

General Library Staff—

MISS CLARE LOUISE JOHNSON, B.A., Cataloguer.
MISS GEORGIA ANNE MERSHON, B.A., Cataloging Assistant.
MRS. JULIA HURLBURT ENCK, B.S., Calatoging Assistant.
MRS. MARY C. EDWARDS, B.S., General Assistant.

Central Clerical Staff—

MISS ALICE TERRY, Secretary to the President.
MRS. ADELAIDE STEINER, Clerk, Comptroller's Office.
MISS ESTHER ROMANO, Clerk, Comptroller's Office.
MISS MARY MOULTON, Clerk, Comptroller's Office.
MISS LUELLA GAVITT, Secretary, Registrar's Office.

MRS. MARGARET HEINEN, Clerk, Registrar's Office.
MRS. ANNA MCNAMARA, Clerk, Registrar's Office.
MRS. ELIZABETH LEEDS SCOTT, Secretary to the Dean of Men.

Associated Students—

JOE T. MCDONNELL, B.A., Graduate Manager.
MRS. BARBARA THOMPSON PINJUV, B.A., Y. W. C. A. Secretary.

Alumni—

REX G. DANIELS, B.A., Secretary.

THE UNIVERSITY FACULTY*

President

JOHN OHLEYER MOSELEY, M.A., A.B. (Oxon), A.M. (Oxon), LL.D., President.

A.B. Austin College, 1912; A.M., University of Oklahoma, 1916; B.A., Oxford (England), 1922; M.A., 1928; LL.D., Austin College, 1936. (1944)

WALTER ERNEST CLARK, Ph.D., LL.D., President Emeritus.

B.A., Ohio Wesleyan University, 1896; M.A., 1898; Ph.D., Columbia University, 1903; LL.D., Ohio Wesleyan University, 1918; LL.D., University of Nevada, 1938; Chevalier, Legion d'Honneur, 1937. (1917–1938)

Vice President

CHARLES H. GORMAN, Honorary M.S., LL.D., Vice President, Comptroller and Treasurer.

Honorary M.S., University of Nevada, 1939; LL.D., 1944. (1911–1941)

Faculty Emeriti

HORACE PRENTISS BOARDMAN, C.E., Professor of Civil Engineering, Emeritus.

B.S., University of Wisconsin, 1894; C.E., 1911. (1907–1939)

CHARLES LEROY BROWN, M.A., Associate Professor of Biology, Emeritus.

B.A., University of Nevada, 1912; M.A., 1913. (1918–1938)

JAMES EDWARD CHURCH, Ph.D., LL.D., Professor of the Classics, Emeritius.

A.B., University of Michigan, 1892; Ph.D., University of Munich, 1901; LL.D., University of Nevada, 1937. (1892–1939)

PETER FRANDSEN, A.M., LL.D., Professor of Biology, Emeritus.

A.B., University of Nevada, 1895; A.B., Harvard University, 1898; A.M., 1899; LL.D., University of Nevada, 1924. (1900–1942)

JOHN WILLIAM HALL, M.A., Professor of Education, Emeritus.

B.S., Columbia University, 1901; M.A., 1902. (1920–1937)

ALBERT ELLSWORTH HILL, A.B., Professor of English, Emeritus.

A.B., University of Chicago, 1899. (1913–1944)

SARAH LOUISE LEWIS, M.A., Professor of Home Economics, Emeritus.

B.S., Columbia University, 1919; M.A., 1923. (1920–1942)

KATHERINE RIEGELHUTH, A.M., Professor of English, Emeritus.

B.A., University of Nevada, 1897; A.M., Columbia University, 1913. (1905–1943)

*The date following each description is that of the beginning of service in the University. A second date indicates the beginning of service in present rank when this differs from the date of original appointment.

LOUISE M. SISSA,[1] Registrar, Emeritus.
(1912–1937)

ROBERT STEWART, Ph.D., Professor of Agronomy, Emeritus.
B.S., Utah Agricultural College, 1902; Ph.D., University of Illinois, 1909. (1920–1943)

JEANNE ELIZABETH WIER, B.A., LL.D., Professor of History and Political Science, Emeritus.
B.Di., Iowa State Teachers' College, 1893; B.A., Stanford University, 1901; LL.D., University of Nevada, 1924. (1899–1940)

Faculty

PHILIP GERALD AUCHAMPAUGH, Ph.D., Associate Professor of History and Political Science.
B.A., New York State College for Teachers, 1920; M.A., Syracuse University, 1921; Ph.D., Clark University, 1924. (1941–1944)

ARNOLD C. BALLARD, Sergeant, United States Army, Instructor in Military Science and Tactics.

E. MAURICE BEESLEY, Ph.D., Associate Professor and Chairman of the Department of Mathematics.
A.B., Lafayette College, 1936; Sc.M., Brown University, 1938; Ph.D., 1943. (1940–1944)

WILLIAM DWIGHT BILLINGS, Ph.D., Associate Professor of Biology.
A.B., Butler University, 1933; M.A., Duke University, 1935; Ph.D., 1936. (1938–1943)

JAMES E. BINGHAM, M/ Sgt., United States Army, Instructor in Military Science and Tactics.
(1946)

FREDERICK L. BIXBY, C.E. Professor of Civil Engineering.
B.S., University of California, 1905; C.E., University of Nevada, 1918. (1919–1926)

GILBERT BRUCE BLAIR, A.M., Associate Professor of Physics and Astronomy.
A.B., Tabor College, 1902; A.M., Washburn College, 1904. (1919–1935)

HOWARD BLAIR BLODGETT, C.E., Professor and Chairman of the Department of Civil Engineering.
B.S., University of Arizona, 1928; M.S., 1929; C.E., 1933. (1947)

HAROLD N. BROWN, Ed.D., Professor of Education and Director of Summer Sessions.
B.S., Kansas State Teachers College, 1923; A.M., Stanford University, 1927; Ed.D., University of California, 1935. (1930–1942)

[1]Deceased May 25, 1947.

HENRY GREENWOOD BUGBEE,[1] Ph.D., Assistant Professor of Philosophy.

B.A., Princeton University, 1936; M.A., University of California, 1940; PhD., 1947. (1946)

JOHN RAYMOND BUTTERWORTH,[2] M.A., Instructor in English.

B.A., Syracuse University, 1933; M.A., University of Southern California, 1938. (1940)

JAY ARNOLD CARPENTER, E.M., Director of Mackay School of Mines; Professor and Chairman of the Department of Mining Engineering.

B.S., University of Nevada, 1907; E.M., Mackay School of Mines, 1911. (1908–1939)

BRUCE C. CATOR, Lt. Colonel, United States Army, Assistant Professor of Military Science and Tactics for Air.

B.S., United States Military Academy. (1947)

OTIS B. CARRICK, Tech. Sgt. United States Army, Instructor in Military Science and Tactics.

ELLIS CHADBOURNE,[3] M.A., Instructor in Economics, Business, and Sociology.

LL.B., New York University, 1923; B.S., City College of New York, 1925; M.A., Columbia University, 1928. (1946)

LEONARD EDWIN CHADWICK,[2] B.S., Assistant Professor of Economics, Business, and Sociology.

B.S., University of California, 1935. (1939–1942)

JOANNA CHAPMAN,[3] M.S., Assistant Professor of Education.

B.S., University of Illinois, 1926; M.S., University of Colorado, 1937. (1943–1944)

BENJAMIN FRANKLIN CHAPPELLE, Ph.D., Professor and Chairman of the Department of Foreign Languages.

A.B., Dickinson College, 1908; A.M., 1911; Diplomé de Alliance Francaise, University of Poitiers, 1914; Ph.D., University of Pennsylvania, 1917; Officer d'Académie, 1934. (1917–1922)

JAMES W. COLEMAN,[2] M.A., Associate Professor of Physical Education for Men.

B.S., University of Arkansas, 1919; M.A., University of Iowa, 1936. (1936–1941)

BERTRAND FRANKLIN COUCH, Instructor in Mine Accounting.

(1924)

ALLAN CREE, M.A., Assistant Professor of Geology.

A.B., Arizona State Teachers College, 1933; M.A., Ohio University, 1935. (1946)

[1]Resigned June 11, 1947. [2]Absent on leave. [3]Resigned February 1, 1947.

CECIL W. CREEL, B.S., D.Agr., Dean of Agriculture.
B.S., University of Nevada, 1911; D.Agr., University of Maryland, 1939. (1919–1945)

ALEX DANDINI, H.E., Instructor in Foreign Languages.
D.S.L., University of Grenoble, 1921; H.E., University of Turin, 1923. (1946)

MERYL WILLIAM DEMING, Ph.D., Professor of Chemistry.
B.A., University of Oregon, 1923; M.A., 1925; Ph.D., University of Washington, 1928. (1929–1933)

LARAINE ERNEST DUNN, PhD., Associate Professor of Soils.
B.S., Oregon State College, 1929; M.S., Iowa State College, 1931; Ph.D., Washington State College, 1942. (1947)

MAXWELL DEAN EDWARDS, A.M., Instructor in English.
A.B., Simpson College, 1919; A.M., University of Illinois, 1926. (1946)

PAUL RICHARD ELDRIDGE, Ph.D., Associate Professor of English.
B.A., University of Oklahoma, 1919; M.A., Harvard University, 1922; Ph.D., University of Iowa, 1942. (1945)

MARY C. FERGUSON, B.S., Instructor in Physics.
B.S., University of Nevada, 1943. (1947)

VINCENT P. GIANELLA, Ph.D., Professor and Chairman of the Department of Geology.
B.S., Oregon Agricultural College, 1910; B.S., Oregon School of Mines, 1911; M.S., University of Nevada, 1920; Ph.D., Columbia University, 1937. (1923–1935)

ROBERT MARK GORRELL, Ph.D., Assistant Professor and Chairman of the Department of English.
A.B., Cornell University, 1936; Ph.D., 1939. (1945)

JOHN R. GOTTARDI, M.A., Associate Professor of Foreign Languages.
B.A., University of Nevada, 1921; M.A., 1926. (1922–1930)

EARL J. GRADY, Sgt., United States Army, Instructor in Military Science and Tactics.

JOSEPH V. GRECO, Litt.M., Instructor in Foreign Languages.
A.B., Park College, 1939; Litt.M., University of Pittsburgh, 1941. (1946)

ROBERT STUART GRIFFIN, Ph.D., Dean of Men; Professor of English.
B.S., Oregon State College, 1928; M.A., University of Southern California, 1935; Ph.D., 1941. (1928–1946)

CLAUDE W. HAMMOND, B.S., Instructor in Metallurgy.
B.S., University of Nevada, 1933. (1947)

EVERETT WHITE HARRIS, Ph.D., Associate Professor of Mechanical Engineering.

B.S., University of Nevada, 1926; S.M., Massachusetts Institute of Technology, 1932; Ph.D., University of California, 1941. (1938–1944)

CHARLES ROGER HICKS, Ph.D., Professor and Chairman of the Department of History and Political Science.

A.B., Clark University, 1915; A.M., Stanford University, 1922; PhD., Clark University, 1931. (1924–1941)

ALFRED LESLIE HIGGINBOTHAM, A.M., Professor and Chairman of the Department of Journalism.

A.B., Oberlin College, 1920; A.M., 1920. (1923–1942)

JAMES JULIAN HILL, M.A., B.S., Director of Libraries and Professor of Library Science.

B.A., University of Oklahoma, 1915; M.A., 1915; B.S., University of Illinois, 1929. (1944)

ROBERT A. HUME, Ph.D., Associate Professor of English.

A.B., Stanford University, 1929; LL.B., 1932; M.A., 1935; Ph.D., Cornell University, 1940. (1944)

AUSTIN E. HUTCHESON, Ph.D., Associate Professor of History and Political Science.

B.A., Reed College, 1925; M.A., University of California, 1929; Ph.D., University of Pennsylvania, 1937. (1940–1943)

FRANK EUGENE INMAN, B.S., Instructor and Instrument Maker in Physics.

B.S., University of Nevada, 1941. (1946)

ERNEST L. INWOOD, Ph.D., Professor and Chairman of the Department of Economics, Business, and Sociology.

B.A., University of Nevada, 1927; Ph.D., University of California, 1935. (1930–1941)

RALPH A. IRWIN, Ph.D., Professor of Psychology.

B.S., Kansas State Agricultural College, 1928; M.S., 1929; Ph.D., Ohio State University, 1938. (1929–1944)

KEISTE JANULIS, M.S., Instructor in Journalism.

B.A., Lehigh University, 1938; M.S., Columbia University, 1941. (1946)

SHERMAN D. JOHNSON, M/Sgt., United States Army, Instructor in Military Science and Tactics.

HELEN JOSLIN, Instructor in Art.

(1939)

LAWTON B. KLINE,[1] M.A., Assistant Professor of Foreign Languages.

B.A., University of Nevada, 1926; M.A., 1928. (1931–1937)

[1]Absent on leave.

CHARLTON G. LAIRD, Ph.D., Professor of English.
B.A., University of Iowa, 1925; M.A., 1927; Ph.D., Stanford University, 1940. (1943–1945)

PHILIP A. LEHENBAUER, Ph.D., Professor of Biology.
A.B., Westminster College, 1907; A.M., Millikin University, 1909; Ph.D., University of Illinois, 1914. (1914–1944)

SIGMUND W. LEIFSON, Ph.D., Professor and Chairman of the Department of Physics.
B.S., North Dakota State Agricultural College, 1922; Ph.D., University of California, 1925. (1925–1941)

JAMES VERNON LEWIS, Ph.D., Assistant Professor of Mathematics.
A.B., University of California, 1937; M.A., 1939; Ph.D., 1942.

KENNETH L. LLOYD, M/Sgt., Instructor in Military Science and Tactics.
(1946)

EDWARD WALTON LOWRANCE, Ph.D., Associate Professor and Chairman of the Department of Biology.
A.B., University of Utah, 1930; M.A., 1932; Ph.D., Stanford University, 1937. (1938–1943)

PERRY B. MCELROY, JR., Captain, United States Army, Assistant Professor of Military Science and Tactics for Air (1946)

ALICE B. MARSH,[1] Assistant Professor of Home Economics.
B.S., Oregon State College, 1914; Professional Degree, 1933; M.S., Kansas State College, 1934; M.A., Ohio University, 1936. (1936–1943)

JOHN EDWARD MARTIE, M.P.E., Professor and Chairman of the Department of Physical Education for Men.
B.S., Central Missouri State Teachers College, 1923; M.P.E., Y. M. C. A. College, Springfield, Massachusetts, 1930. (1923–1929)

HOWARD G. MASON, B.S., Associate Professor of Agronomy.
B.S., University of Nevada, 1940. (1935–1946)

ANATOLE G. MAZOUR,[2] Ph.D., Professor of History and Political Science.
A.B., University of Nebraska, 1929; M.A., Yale University, 1931; Ph.D., University of California, 1934. (1938–1941)

GEORGE DONALD MEIXNER, JR., B.S., Instructor in Mechanical Engineering.
B.S., California Institute of Technology, 1946. (1946)

CHRISTIAN W. F. MELZ, Ph.D., Assistant Professor of Foreign Languages.
B.A., University of California, 1931; M.A., 1933; Ph.D., 1935. (1941–1943)

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[1]Absent on leave. [2]Resigned June 11, 1947.

KATHARINE NORRID MERGEN, B.A. Instructor in Journalism.
B.A., University of Nevada, 1936. (1944)

WILLIAM C. MILLER, Ph.D., Assistant Professor of English.
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H. ELAINE MOBLEY, M.A., Dean of Women.
B.S., University of Oregon, 1926; M.A., University of California, 1947. (1946)

JOE EUGENE MOOSE, Ph.D., Professor of Chemistry.
A.B., Southern Methodist University, 1917; M.S., University of Illinois, 1922; Ph.D., 1924. (1945)

CLAUD D. MORRIS, M/Sgt., United States Army, Instructor in Military Science and Tactics.
(1946)

FRANCIS CLARK MURGOTTEN, Ph.D., Professor of Foreign Languages.
A.B., Stanford University, 1901; A.M., 1908; Ph.D., Columbia University, 1924. (1922–1926)

OWEN GLYNN OWENS, Ph.D., Assistant Professor of Mathematics.
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B.S., University of Nevada, 1909; M.E., Cornell University, 1910. (1915–1942)

WALTER S. PALMER, E.M., Professor and Chairman of the Department of Metallurgy.
B.S., University of Nevada, 1905; E.M., Columbia School of Mines, 1907. (1910–1917)

WALTER STANLEY PALMER, JR., M.B.A., Instructor in Economics, Business, and Sociology.
B.A., University of Nevada, 1937; M.B.A., Stanford University, 1941. (1946)

GILBERT E. PARKER, Colonel, United States Army; Professor of Military Science and Tactics.
B.A., Cornell University, 1917. (1936)

JOHN WILLIAM PARKER, JR., B.A., Instructor in English.
B.A., Texas Christian University, 1942. (1946)

ALDEN J. PLUMLEY, M.A., Assistant Professor of Economics, Business, and Sociology.
B.A., University of Nevada, 1929; A.M., Brown University, 1932. (1931–1935)

ROBERT C. POOLMAN, B.S., Instructor in Civil Engineering.
B.S., California Institute of Technology, 1945. (1946)

JESSIE P. POPE, M.A., Associate Professor of Home Economics.
B.S., University of Nebraska, 1913; M.A., Columbia University, 1926. (1918–1929)

THEODORE H. POST, M.A., Professor and Chairman of the Department of Music; Director of Music.
New England Conservatory of Music, Certificate, 1918; A.B., Washburn College, 1922; M.A., Harvard University, 1926. (1927)

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B.S. in Education, Kansas State Teachers College, 1926; Ed.M., University of Oklahoma, 1933. (1937)

JEANETTE CAMERON RHODES, B.A., Registrar.
B.A., University of Nevada, 1904. (1937)

FRANK RICHARDSON, Ph.D., Assistant Professor of Biology.
B.A., Pomona College, 1934; Ph.D., University of California, 1939. (1941–1943)

EDITH M. RUEBSAM, M.A., Associate Professor of Education.
B.A., Columbia University, 1921; M.A., University of California, 1934. (1925–1935)

RUTH IRENE RUSSELL, M.S., Assistant Professor of Physical Education for Women.
B.S., University of Colorado, 1937; M.S., University of Oregon, 1939. (1939–1947)

JACK TORNEY RYAN, Superintendent of Shops and Supervisor of Shop Instruction.
(1931–1944)

ELSA SAMETH, M.S., Professor and Chairman of the Department of Physical Education for Women.
A.B., Cornell University, 1911; B.S., Columbia University, 1911; M.S., University of Wisconsin, 1922. (1913–1930)

IRVING JESSE SANDORF, M.S., Professor and Chairman of the Department of Electrical Engineering.
B.S. in E.E., University of Michigan, 1923; M.S., University of Nevada, 1931. (1928–1947)

VERNER E. SCOTT, M.S., Professor of Dairy and Poultry Husbandry.
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B.S., Drury College, 1908; M.S., University of Illinois, 1911; Ph.D., 1914. (1917–1926)

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CLAUDE CARSON SMITH, M.A., Associate Professor of History and Political Science.

A.B., Carson-Newman College, 1921; M.A., University of Oklahoma, 1924. (1929–1935)

WILLIAM I. SMYTH, E.M., Professor of Metallurgy and Mining.

B.S., University of Nevada, 1914; E.M., 1927. (1925–1933)

VICTOR E. SPENCER, M.S., Professor and Chairman of the Department of Soils.

B.S., University of Illinois, 1915; M.S., 1926. (1928–1946)

HARRISON M. STONEBACK, M/Sgt., United States Army, Instructor in Military Science and Tactics.

RAYMOND L. STULL, M/Sgt., United States Army, Instructor in Military Science and Tactics.

(1946)

EDWARD G. SUTHERLAND,[2] A.B., Associate Professor of Economics, Business, and Sociology.

A.B., University of Utah, 1923. (1924–1926)

MILDRED SWIFT, M.S., Professor and Chairman of the Department of Home Economics.

B.S., Russell Sage College, 1927; M.S., Cornell University, 1930. (1942–1943)

REUBEN CYRIL THOMPSON, M.A., LL.D., Professor and Chairman of the Department of Philosophy.

B.A., McMinnville College, 1899; B.A., Harvard University, 1901; M.A., 1902; LL.D., Linfield College, 1938. (1908–1945)

LOUIS TITUS, M.S., Professor of Farm Mechanics.

B.S., University of Nevada, 1924; M.S., Cornell University, 1931. (1933–1947).

ROBERT NORMAN TOMPSON, B.S., Acting Instructor in Mathematics.

B.S., Adrian College, 1941. (1947)

FRED W. TRANER, Ph.D., Dean of the School of Education; Professor of Education and Chairman of the Department of Secondary Education.

A.B., Beloit College, 1908; M.A., University of California, 1920; Ph.D., 1930. (1915–1937)

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[2]Resigned June 11, 1947.

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B.E., Nebraska Normal College, 1908; B.A., University of Nevada, 1929; M.A., 1931; Ph.D., University of Colorado, 1934. (1929–1944)

HARRY EUGENE WHEELER, Ph.D., Associate Professor of Geology.
B.S., University of Oregon, 1930; M.A., Stanford University, 1932; Ph.D., 1935; (1935–1942)

ELIZABETH O'NEILL WILKIE, Ph.D., Instructor in English.
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ELDON WITTWER, PhD., Professor and Chairman of the Department of Agricultural Economics.
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Assistants, Fellows, and Lecturers

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B.A., University of Chicago, 1936; M.A., 1937. (1946)

KENNETH BRADSHAW, B.S., Assistant in Mathematics.
B.S., Iowa State College, 1945. (1947)

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B.S., St. Peters College, 1940. (1946)

LLOYD DOWLER, M.S., Lecturer in Education.
B.S., University of Wyoming, 1935; M.S., 1941. (1947)

MANUEL FELIX DRUMM, B.S., Fellow in Chemistry.
B.S., Monmouth College, 1945. (1946)

SUMNER LLEWELLYN EVANS, B.S., Assistant in Mechanical Engineering.
B.S., University of Nevada, 1941. (1946)

JAMES AMOS FORSYTH, A.B., Assistant in Foreign Languages.
A.B., University of Nevada, 1943. (1946)

JOHNNIE BELLE GORRELL, B.A., Assistant in English.
B.A., Cornell University, 1939. (1946)

MILDRED M. HUBER, B.S., Lecturer in Education.
B.S., University of Nevada, 1934. (1947)

MILDRED KLAUS, B.A., Lecturer in Secondary Education.
B.A., University of Nevada, 1926. (1946)

STUART M. LEE, B.S., Fellow in Chemistry.
B.S., Long Island University, 1941. (1946)

GEORGE R. MAGEE, M.D., Lecturer in Hygiene.
A.B., University of California, 1919; M.D., 1923. (1946)

MAYA MILLER, M.A., Assistant in English.
B.A., Principia College, 1936; M.A., Cornell University, 1939. (1946)

ABRAHAM RAVVE, A.B., Fellow in Chemistry.
A.B., University of Southern California, 1943. (1946)

PENELOPE RICE, Ph.D., Assistant in Home Economics.
B.S., Kansas State College, 1924; Ph.D., Columbia University, 1925. (1946)

MARION ROOT, Assistant in Art.

JAY SCHUMACHER, B.S., Assistant in Mechanical Engineering.
B.S., University of Nevada, 1926. (1946)

EDWIN S. SEMENZA, M.A., Assistant in English.
B.A., University of Nevada, 1930; M.A., University of Southern California, 1934. (1946)

GRACE SEMENZA, B.A., Assistant in Sociology.
B.A., University of Nevada, 1935. (1946)

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B.A., University of Nevada, 1945. (1946)

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B.S., University of Nevada, 1927; LL.B., University of Oregon, 1935. (1947)

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RUTH VAN DYKE, B.A., Assistant in Mathematics.
B.A., University of Minnesota, 1914. (1946)

JOSEPH WILLIAM WEIHE, B.S., Assistant in Mathematics.
B.S., University of Nevada, 1946. (1946)

MARGARET JENSEN WILLIAMS, B.S., Assistant in Mathematics.
B.S., University of Nevada, 1938. (1941)

ETHEL CROUCH WRIGHT, A.B., Assistant in Psychology.
A.B., University of Nevada, 1946. (1946)

UNIVERSITY STANDING COMMITTEES

The first-named member of each Committee is its Chairman, to whom all matters of business should be referred.

Administrative Council—
WOOD, BROWN, CARPENTER, CREEL, DEMING, GORRELL, GRIFFIN, HILL, MOBLEY, S. PALMER, RHODES, TRANER, WHEELER, WILSON.

Admission, Entrance Examinations, and Advanced Standing—
DEMING, HICKS, S. PALMER, RHODES, WITTWER, WOOD.

Advisory Council—
BEESLEY, BILLINGS, GIANELLA, INWOOD, MILLER, POPE, SANDORF, SEARS, SMYTH.

Assemblies and Lectures—
GORRELL, ELDRIDGE, A. S. U. N. President.

Athletics—
WILSON, RHODES.

Campus Calendar for Student Activities—
GRIFFIN, MARTIE, MILLER, MOBLEY, POST, SAMETH.

Campus Employment—
GRIFFIN, MOBLEY, Y. W. C. A. Secretary.

Ceremonials—
WOOD, BROWN, GRIFFIN, HIGGINBOTHAM, S. PALMER, PARKER, POST, A. S. U. N. President.

Chief Marshal of Formal Assemblies—
PARKER.

Graduate—
TRANER, LEIFSON, SEARS, WITTWER.

Health—
GRIFFIN, LOWRANCE, MAGEE, MARTIE, MOBLEY, SAMETH, A. S. U. N. President, A. W. S. President.

Library—
CHAPPELLE, ELDRIDGE, HICKS, HILL, W. PALMER, SR., SWIFT, WEBSTER, WILLIAMS.

Orientation—
BYRD, IRWIN, DEMING, GORRELL, GRIFFIN, MOBLEY, MERGEN, MOOSE, SANDORF, VAN DYKE, A. S. U. N. Representatives.

Publications—
HIGGINBOTHAM, ADAMS, BILLINGS, BROWN, CARPENTER, CREEL, FLEMING, GORMAN, GORRELL, HILL, LAIRD, S. PALMER.

Public Relations—
HIGGINBOTHAM, BROWN, POST, WITTWER.

Research—
BILLINGS, BEESLEY, HARRIS, HICKS, IRWIN, MELZ, SEARS, VAWTER, WHEELER.

Rhodes Scholarship Nominating Committee—
LEIFSON, THOMPSON, WEBSTER.

Schedules—
WILLIAMS, HICKS, LEHENBAUER, VAN DYKE.

Scholarships and Prizes—
BROWN, CARPENTER, MOBLEY, SEARS.

Student Affairs—
GRIFFIN, DEMING, MOBLEY, POPE, A. S. U. N. President, Sagebrush Editor, Y. W. C. A. Secretary.

Vocational Guidance—
IRWIN, BILLINGS, GRIFFIN, MOBLEY, RUEBSAM, VAN DYKE.

Sketch of the University

The University and Its Function

Among western civilizations, the university is the recognized instrument with which man seeks the truth and seeds it abroad. Truth is sought by research; it is disseminated, indirectly through publication, directly by teaching students. Thus, a university is an institution for fostering and preserving culture; it is the custodian of tradition.

In Nevada, these activities are centered in the State University, the only recognized institution of higher learning in the State, and a member of the important American system of land-grant colleges and universities. The institution is supplied with ample facilities to do sound work, extensive grounds and good buildings, in which are classrooms, laboratories, and research collections. It is staffed with a competent administration and a varied faculty, teachers and research workers, scholars, scientists, and professional people. These men and women work in their special fields, some through independent research, some through foundations and institutions supported by Federal funds, by State appropriation, or by private benefaction. The major concern of the University is, however, and has been since its inception, the teaching of students and the training of young people.

All qualified students are admitted without distinction. The qualifications for admission are only those which seem necessary to restrict the privileges of the University to those who can profit from them; for these qualifications, see *Admission* in the index. Citizens of the State pay no tuition; those from without the State pay a moderate sum, and care is taken that personal expenses need not be large. For the cost of attending the University, see *Expenses of Students* in the index. Students are given a large degree of self-government, and are encouraged in artistic, scientific, professional, and cultural pursuits. Their health and social needs are provided for. Thus the young people live in a community conducive to building good citizens, capable experts, and cultured men and women. For more detailed information concerning the lives and activities of students, see *Student Life* in the index.

The University is organized and administered to provide serious undergraduates with unusually capable and helpful instruction. Graduate work is offered, but the bulk of the students at the University of Nevada come there for studies leading to the degrees Bachelor of Arts and Bachelor of Science. Accordingly, most of the University is organized for the benefit of these students. Faculty members are chosen, not alone for their capacity to conduct research, but also for their ability to impart their knowledge and to inspire young people. Classes are kept small so that students may receive individual attention, and even the beginning student finds that he has access to the best of teachers, many of them with national reputations. Thus the University of Nevada combines many of the advantages offered by the large universities with those more characteristic of the small endowed colleges.

The University offers a wide range of opportunity. Courses in languages, literatures, social studies, the sciences, and the arts offer ample opportunity for a broad culture. Selections from these courses will permit the student to lay the foundation for any specialized technical or professional training he may later elect. In addition, advanced training is offered in many fields, notably in agriculture and in engineering, and curricula are constantly being revised to fit changing conditions and to take advantage of educational developments. For courses and curricula offered by the University, see the index under subjects of individual interest, and for a general treatment, *Organization of the University* and *Courses of Instruction.*

Situation of the University

The University of Nevada is situated in the Truckee River Valley on a low plateau at the northern edge of Reno, in the center of an area known for mountain and desert scenery. The Sierra Nevada mountains, crowned by snow-capped Mount Rose with an elevation of 10,800 feet, tower above the campus on the west; and rugged, varicolored desert ranges stretch into the distance in other directions.

The campus itself, consisting of more than eighty-six acres, harmonizes with its setting. It is built around a turfed quadrangle, at the northern end of which stands the famous statue of John W. Mackay, Comstock pioneer, wrought in bronze by Gutzum Borglum. West of the quadrangle Manzanita Lake mirrors the red-stone buildings and the green lawns, bordered by a variety of trees, shrubs and flowers.

At an elevation of 4,500 feet Reno has a climate which combines the dryness of the desert and the coolness of the mountains.

The air is clean and stimulating; temperatures are uniformly comfortable; and the sun shines on more than three hundred days of the year. Reno provides pleasant and healthful environment.

The city and University are rendered accessible by three railroads: the Southern Pacific, the main line between San Francisco and Ogden, Utah; the Virginia & Truckee Railway, a short line connecting Reno and Carson City; and the Western Pacific, a transcontinental trunk line. Reno is also on the main transcontinental route of the Greyhound and Burlington bus lines. In addition, the Victory Highway passes through Reno from east to west, while other paved highways come from north and south. The main route of the United Air Lines joins Reno with all important points in the country. These various transportation facilities serve a substantially built and steadily growing city of more than 25,000.

University students at once feel the hospitality of Reno. Its churches and various actively maintained cultural features, such as the Reno Little Theater and the Nevada Community Concert Association, strengthen the bond of common enterprise between university and city.

History and Development

The University of Nevada has reached its present standing as an important institution of higher learning through steady growth from a small preparatory school of the pioneer West to a university offering a wide variety of courses of study and conducting significant research. The growth of the University paralleled the development of the West. First established in the early days of the State of Nevada, when high schools were almost unknown in the intermountain area, the University originally filled the requirements of a small population seeking elementary training. The expansion of the West brought demands for college work and more adequate funds from public and private sources. Development of mining and the benefactions of wealthy mine owners, notably the Mackay family, helped the institution to become known as a center for research and instruction in mining. This reputation has been deserved, but the University has remained, as it was begun, a general institution of higher learning.

In 1864 the University of Nevada was established by an article in the State Constitution authorizing the Legislature to "encourage, by all suitable means, the promotion of intellectual, literary, scientific, mining, mechanical, agricultural, and moral improvement," and to provide for "the establishment of a State University, which shall embrace departments for agriculture, mechanic

arts and mining." The Constitution further provided for the establishment of a Board of Regents to supervise the University and for a special tax to be used for the University's support. The Morrill Land Grant Act of 1862 had already provided federal aid for the establishment of a university. By the terms of the Act, the State received in 1866 a donation of 90,000 acres of land "for the endowment, support and maintenance of at least one college whose leading object shall be, without excluding other scientific and classical studies and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts." The fund derived from the sale of this land is known as the "90,000-Acre Grant Fund" and amounts to $128,010.81. The grant was supplemented in 1866 by a special Act of Congress donating seventy-two sections in the State to endowment of a university and providing for the "University Irreducible Fund," now amounting to $60,000.13, derived from sale of this land.

It was not until March 7, 1873, however, that actual plans for a university were approved. The school was located in Elko by the State Legislature, and on October 12, 1874, it began actual work, on the preparatory level, with a class of seven students, under the supervision of D. R. Sessions. The University continued at Elko, primarily serving a few local students in elementary studies, until it was moved to Reno, nearer the center of the State's population, in 1885.

The University was formally reopened March 31, 1886, in Reno, and in 1887, under the administration of President LeRoy D. Brown, it began work with fifty students and Miss Hannah K. Clapp as the single member of the faculty. During the administrations of President Brown, from 1887 to 1889, and President Stephan A. Jones, from 1890 to 1894, departments of the University were established and the faculty was enlarged. By 1888 there were seven members of the faculty, and a School of Mines had been organized with Robert D. Jackson as Director, a Normal School with Miss Kate N. T. Tupper as the head, and a Military Department with Lieutenant Arthur C. Ducat, Jr., as commandant. Plans were also made for departments in the liberal arts, agriculture, and business. In 1889, by the terms of an Act of Congress known as the Hatch Act, the Agricultural Experiment State was organized, with $15,000 annually provided for its support. At the beginning of the administration of President Joseph Edward Stubbs in 1894, classes had been graduated by the State Normal School and by the Schools of Liberal Arts, Mining, and Agriculture. Morrill Hall, the "Dormitory Building," now Stewart Hall, the Agricultural Experiment Station Buildings, and the first machine shop had been completed;

Washoe County had presented a 60-acre farm; and the general organization of the University had been established.

During the twenty-year administration of President Stubbs Nevada developed into a modern university. New faculty members brought points of view from different parts of the world; enrollment increased to nearly 500 students; and the physical plant of the University was expanded until it more nearly filled the needs of the growing State. By the time of the University's thirtieth birthday in 1904, the Mechanical Building, the Chemistry Building, Lincoln Hall, Manzanita Hall, the Gymnasium, the President's House, and the Hospital had been built on the campus. During the next ten years Federal aid and gifts from the Mackay family allowed further expansion. In 1906 the Adams Act of Congress provided $15,000 annually for the support of the Agricultural Experiment Station, and in 1907 the Nelson Fund, amounting at present to $25,000 a year, was established by Congress for the benefit of land-grant colleges. Acts of the State Legislature established the State Hygienic Laboratory in 1909 and the Laboratory for Pure Foods and Drugs and Weights and Measures in 1910, and provided in 1911 and 1913 for the Electrical Engineering Building and a small library building. The most notable improvements to the University's physical plant during this period were the result of donations by Mrs. John W. Mackay and Clarence H. Mackay, which were begun in 1907. The gifts included $25,000 for beautifying the campus and funds which established the Mackay School of Mines and built the Mackay Athletic Field and the Mackay Training Quarters.

At the death of President Stubbs on May 27, 1914, Archer B. Hendrick became President of the University. During the three years of his administration agricultural studies at the University made notable progress. The Smith-Lever Act of Congress in 1914 established a fund amounting to $15,699 per year by 1923, for the purpose of agricultural extension, and the State Legislature authorized the State Veterinary Control Service in 1915. Two years later the 213-acre University Farm was purchased.

The administration of President Walter Ernest Clark began in 1917, with the University preparing for the varied types of war training service which were carried on during 1918 and 1919. During this administration, which continued until President Clark's retirement in 1938, the University continued its steady development and progress. The enrollment more than doubled; the faculty and physical plant were enlarged; and student body activities gained new form and vigor. In 1920 a federal radio station was established on the campus, and in 1921 an engineering experiment station began work.

In 1924 the establishment of the Robert Lardin Fulton Lecture Foundation provided for bringing distinguished speakers to

the campus. In 1929 a State Bureau of Mines was established and put under the control of the Regents of the University. In 1931 the land and building formerly used by the Nevada Historical Society were transferred to the University. During the period from 1933 to 1940 various projects were financed by Federal Government Relief Administration Funds, and improvements were completed on the campus, in the greenhouse, on Mackay Field, and in several of the University buildings. In 1935 the Bankhead-Jones Act of Congress provided further funds for land-grant colleges to be used for resident teaching, agricultural extension, and agricultural experimentation. Many of the improvements during this period, however, were the result of gifts from friends and alumni. Clarence H. Mackay continued his benefactions, adding a file of the rare *Virginia City Enterprise* to the library; providing $18,000 per year for the maintenance of the Mackay School of Mines; and providing funds for the Mackay School of Mines Museum, to enlarge the Mackay School of Mines Building and perfect its equipment, to enlarge the stadium and training quarters, to purchase about twenty-seven acres of land from the Evans Estate, increasing the acreage of the campus nearly fifty percent, and finally to build the $415,000 Mackay Science Hall, dedicated and presented to the University by Mr. Mackay on October 24, 1932.

Another important addition to the University plant was the gift of William A. Clark, Jr., the $250,000 Alice McManus Clark Memorial Library, which was presented to the University on October 21, 1927. The physical plant of the University was further improved in 1928 by the construction of a retaining wall back of the Engineering Buildings, financed by George Wingfield, and important improvements to Lincoln Hall, financed by Thomas F. Cole. The S. Frank Hunt Foundation, established in 1935 provided funds for field trips for geological study and mineral prospecting. The work of the department of music was aided in 1935 by a gift from the Carnegie Corporation of a Capehart phonograph and a collection of records, scores, and volumes on music.

At President Clark's retirement the University had assumed its present-day physical appearance and had advanced academically until it was approved in all departments by the Northwest Association of Secondary and Higher Schools.

President Clark was succeeded by Leon Wilson Hartman as Acting President in 1938 and President from 1939 until his death August 27, 1943. Acting President Charles Henry Gorman served from 1943 until the beginning of the administration of President John O. Moseley, July 1, 1944. Although enrollment dropped during the war and much of the University's work was turned in 1943 to Army training programs, Nevada has continued to grow in recent years. From 1941 to 1943

projects costing about $100,000 were completed on the campus by the Works Progress Administration of the Federal Government. In 1942 the new Engineering Building, constructed at a cost of about $175,000 on the authority of the State Legislature, was completed; and additions to the infirmary and to the dining hall were completed in 1942 and 1945. Facilities for work in agriculture were greatly improved in 1944 when Major Max C. Fleishmann gave the University his 258-acre farm, formerly the Ladino Dairy, with modern buildings and equipment and a herd of dairy cattle and other livestock.

A special Summer Session of ten weeks, in addition to the regular six-week session, was undertaken as a major item in the University's war effort in 1942, and it led to the establishment of the present twelve-week Summer School. In 1944 the Engineering Experiment Station, discontinued in 1939, was reestablished with Dean Stanley G. Palmer, Acting Director. In 1945 a student center was established in the basement of Stewart Hall as a forerunner to a Student Union, and the Y. W. C. A., with a full-time secretary, was established with headquarters in the student center. An Alumni Secretary, Rex Daniels, was appointed in 1946 to aid in the activities of growing groups of Nevada graduates. In 1946 and 1947 the University began expansion for its increased postwar enrollment with the erection of quonset huts to house administrative offices and a group of prefabricated housing units for the use of the Department of English. Housing for the nearly nine hundred veterans enrolling in the University in 1946 was partially provided by University housing projects and the conversion of a section of the Old Gymnasium into a temporary dormitory. The University entered the school year 1946–1947 with more than 1,700 students, the largest enrollment in its history.

Survey of University Organization

As a functioning institution, the University of Nevada acts through a flexible organization calculated to fulfill the needs of the State, of the students, and of those who devote their lives to the conduct of university affairs. The supreme authority for the government of the institution is vested in a Board of Regents, elected by the people of the State. This board acts through a president, to whom the deans and the directors of the various divisions of the University are responsible. The deans, in turn, work through the chairmen of instructional departments, through committees of the faculty, and through the general faculty and the faculties of the colleges, sitting as legislative bodies. Thus there is throughout the University a carefully graduated hierarchy of authority and responsibility, a central structure which permits the University to work for common ends and with unified

purpose. At the same time, within this general structure teachers and research workers find that there is left to them the latitude for individual initiative without which highly-trained and responsible people cannot do their best work. Students find that the University is so adjusted that there are regularly organized patterns of life and learning into which they can adapt themselves with ease, and that there is sufficient flexibility to accommodate the exceptions when exceptions appear.

A more detailed sketch of the major divisions of the University and of the University administration follows:

The College of Arts and Science

The College of Arts and Science offers a wide range of courses for students who seek a background of culture and scholarship in order to prepare for more intelligent living and as a preparation for later specialization.

During the first two years the student receives basic instruction in English, foreign languages, social and natural sciences. During the junior and senior years the student concentrates on becoming proficient in special fields.

Work in the following subjects is offered in the College of Arts and Science: art, astronomy, biology, botany, business chemistry, dramatics, economics, education, English, foreign languages, geography, geology, history, journalism, library science, mathematics, military science, music, philosophy, physical education, physics, political science, psychology, speech, sociology, and zoology.

In addition to the degrees of Bachelor of Arts and Bachelor of Science, special work is offered leading to the degrees of Bachelor of Science in Business Administration and Bachelor of Science in Chemistry or Chemical Technology.

Standard courses for pre-medical, pre-nursing, and medical technologists are provided as are courses for pre-legal students and social workers.

School of Education

The responsibility for all teacher-training work in the State of Nevada for elementary and secondary schools rests upon the School of Education of the University of Nevada.

This school is a division of the College of Arts and Science, but has its own Dean and direct affiliations with the Colleges of Agriculture and Engineering. It offers to prospective secondary-school teachers a liberal and professional four-year course of study, leading to the bachelor's degree and a teacher's high school diploma, giving title to a teacher's high-school certificate. It also offers four-year courses which qualify one for a first-grade elementary certificate and offers special training courses for future school principals and superintendents.

For the student who cannot remain continuously in the University for four years the School of Education offers a two-year course which entitles the student to be recommended for a first-grade elementary certificate. A one-year course is offered which entitles the student to be recommended for a second-grade certificate.

During the Summer Session and during the regular term, graduate courses are provided, leading to the Master of Arts Degree in Education.

The College of Engineering

The College of Engineering includes the Schools of Mechanical, Civil, and Electrical Engineering, and the Mackay School of Mines.

The Mackay School of Mines offers three four-year courses, one in general mining, one in metallurgy, and one in geological engineering. The first prepares the student for general practice in mining, metallurgy, and geology, and leads to the degree of Bachelor of Science in Mining Engineering. The second is a more specialized course in metallurgy, leading to the degree of Bachelor of Science in Metallurgical Engineering. The third is a specialized course in geology leading to the degree of Bachelor of Science in Geological Engineering.

The school is provided with the equipment necessary to teach efficiently the courses in mining, metallurgy and geology, which form the basis of a mining education. The professional degree of Engineer of Mines is conferred upon a graduate who has held responsible mining positions for at least five years and who presents a satisfactory thesis.

The Schools of Mechanical, of Electrical, and of Civil Engineering each offer four-year courses of instruction leading, respectively, to the degrees of Bachelor of Science in Mechanical, Electrical, and Civil Engineering. The professional degree of Mechanical, Civil, or Electrical Engineer may be conferred upon a graduate of this or another university under the conditions stated under the heading "Engineering Degrees." (See index.)

The classrooms and laboratories for Mechanical and Civil Engineering are in the new Engineering Building. Those for Electrical Engineering are in the Electrical Building, as is also the office of the Dean of Engineering. All of these laboratories are provided with modern equipment for teaching the courses as described in the catalogue.

The College of Agriculture

The College of Agriculture curricula lead to the degree of Bachelor of Science in Agriculture with majors in Agricultural

Economics, Preforestry, Vocational Agriculture, Range Management, Agronomy-Botany, General Agriculture, and Animal Husbandry. These are four-year courses, including, in addition to the prescribed agricultural subjects, such subjects in the College of Arts and Science as are necessary to establish in the student's mind a thorough knowledge of agricultural problems.

The School of Home Economics is a part of the College of Agriculture. The curricula include a major in teaching, clothing, dietetics and general home economics. Each of these fields leads to the degree of Bachelor of Science in Home Economics. Both men and women will find cultural and professional opportunities as well as fundamentals for everyday living in these areas of study.

Agricultural Experiment Station

The Agricultural Experiment Station receives its Federal support from the Hatch Fund (1887), from the Adams Fund (1906), from the Purnell Fund (1925), and from the Bankhead-Jones Act (1935). These funds are restricted by law to the scientific investigation of agricultural problems, including the problems arising from soil conditions, the duty of water, animal diseases, poisonous range plants, economical feeding of livestock, insect pests, plant diseases, and other problems of agricultural economics and practice.

Agricultural Extension Division

Cooperative Extension work in Agriculture and Home Economics as provided for by the Federal Smith-Lever, Capper-Ketchum, Bankhead-Jones, Bankhead-Flannagan, and Hope-Flannagan Acts, and Supplementary State Acts is under the immediate charge of a director.

Its specific purpose is "the giving of instruction and practical demonstrations in agriculture and home economics to persons not attending or resident in said colleges in the several communities, and imparting to such persons information on said subjects through field demonstrations, publications, and otherwise." Further information concerning the work under this division, staff, etc., is given in this catalogue.

Public Service Departments

The Legislature of the State has placed the following four public service departments under the direction of the President and Board of Regents of the University:

State Analytical Laboratory

The State Analytical Laboratory, which was organized under

an Act of the Legislature approved May 16, 1895, provides a means whereby citizens of Nevada may have ores and minerals, taken from within the boundaries of the State, assayed and analyzed free of charge.

Food and Drug Control and Weights and Measures

The Act of the Legislature in 1909 which established the Food and Drugs Control and Weights and Measures Department, provides that all rules, regulations, definitions, and decisions proclaimed by the Secretary of Agriculture for the enforcement of the national law shall be adopted by this department in the enforcement of the State law. The Department of Weights and Measures is also charged with the enforcement of the Petroleum Products Inspection Act. The laboratory is located at the corner of Fifth and Sierra Streets, Reno.

State Veterinary Control Service

The State Veterinary Control Service was organized in 1915 to provide facilities for the diagnosis of communicable diseases of domestic animals, for research into the nature, cause, and methods of controlling the same, including the preparation and distribution of special sera and vaccines which cannot be purchased on the open market.

State Bureau of Mines

The State Bureau of Mines was created by the Thirty-fourth Session of the Legislature (approved March 29, 1929) to provide facilities for cooperation with the mineral industry of the State and to advance the development of the State's mineral deposits.

United States Mines Experiment Station

In 1920 the Rare and Precious Metals Station of the United States Bureau of Mines was moved to Nevada. From State funds a two-story and basement brick building, including offices, laboratories and library, was built on the University campus to house this Federal Mines Experiment Station. All experimentation for the whole United States in the fields of the rare and the precious metals is done at this Nevada Station. The Federal funds pay all salaries and equipment costs and the State, through the University of Nevada, bears costs of all needed heat, power and light. A working agreement between the United States Bureau of Mines and the University of Nevada provides for use of University laboratories and libraries by staff members of the Mines Station and for use of the station laboratories and library by staff members or advanced students of the University.

Graduate Degrees

Curricula leading to the degrees of Master of Arts and Master of Science are offered by the University under the direction of a Graduate Committee appointed by the President. These curricula include an integrated program of twenty-four hours of graduate courses in a major and minor field, and a thesis, and culminate in a final oral examination by a special examining committee.

The University of Nevada does not offer graduate work leading to the doctor's degree.

Professional degrees in the College of Engineering may be conferred upon graduates of the College of Engineering of the University of Nevada, who have held positions of responsibility in engineering, and who submit a thesis showing ability to conduct advanced engineering work.

The Summer School

The Summer Sessions are organized to benefit both graduate and undergraduate students wishing to advance themselves toward degrees or to study in fields of particular interest. Courses are offered upon demand. Classes in the College of Engineering have been included when pupil need seemed to justify these offerings. There is constant demand for work leading to State certification. Hence subjects in the College of Arts and Science are always given.

Correspondence Study

Correspondence work is offered by most departments of the University. Credit thus obtained may be used toward entrance and graduation requirements or renewing teachers' certificates.

Complete details concerning courses offered, fees, and other necessary information is contained in a University bulletin which may be obtained upon application to the Director.

THE ADMINISTRATION

Government

The control of the University is vested by law in a Board of Regents consisting of five members elected by the people.

The administration of the University is vested by the Board of Regents in the President of the University, the University Faculty, the Faculties of the several Colleges and the Deans and Directors of the Colleges and Schools and of the Public Service Departments.

The President

The President of the University is the executive head of the University, the Chairman of the University faculty, and ex officio member of all committees. It is his duty to secure through the Academic Deans, Directors of the various schools, and other administrative officers efficient, orderly, and economical administration and healthful development of the University.

The Vice President

In the absence of the President or in case of his inability to act, the Vice President shall perform his functions.

Deans

The principal administrative officers are the Academic Deans and the Directors of the various schools, who, under the general supervision of the President, have immediate charge of the educational work of the University. It is the duty of these Deans to secure estimates for the expenses of their departments and to submit their estimates to the President.

Dean of Women

The academic and social welfare of all the women students is under the supervision of a Dean of Women. Regulations governing the women students on the campus, in the halls and sorority houses, are formulated by the women students and approved by the Dean. The residence halls are under the direct supervision of social directors but have, in general, self-government. The personnel record of each woman is on file in the office of the Dean of Women.

Dean of Men

The academic and the social welfare of the men students is under the special supervision of the Dean of Men. Jurisdiction

over all social matters and student organizations in which men students are concerned is given to the Dean of Men.

The Treasurer and Comptroller

The Treasurer and Comptroller is authorized to receive all moneys arising from gifts or bounties in any form to the University or for its benefits; all fees from students or others; proceeds from all sales of farm products or any articles of personal property of whatever nature or kind; fees for services rendered in any manner, and funds from any sources whatsoever other than in cases by law required to be paid to the State Treasurer. He keeps the accounts of the moneys in his custody in such separate funds as are necessary for proper and systematic accounting.

The University Faculty

The President, Vice President, Deans, Librarian, Registrar, and all persons who give instruction, with the rank of instructor or above, in any of the regular college departments of the University, constitute the University Faculty.[1] Subject always to the approval of the President and the Board of Regents, the University Faculty has legislative jurisdiction in all matters of government, discipline and educational policy not delegated by it to the separate faculties, and has the right of review of all actions of the several colleges which relate to the educational welfare of the University as a whole.

The Standing Committees, through which much of the business of the University Faculty is done, are listed elsewhere in this catalogue.

The University Faculty meets at the call of the President.

College Faculties

The faculty of each college directs the educational and internal life of the college, makes rules and regulations peculiar to that college; formulates the course of study, the entrance and graduation requirements which, when approved by the University Faculty, the President and the Board of Regents, become the statutes in force in that college. It shall not have the authority to take away from a student any University privilege nor shall it trench upon the executive duties of the Deans. All matters which may require the action of the University Faculty shall be presented to that body by the Dean. The faculty of each college shall organize and carry out its functions as it deems wise. The

[1]Exceptions to the above rule:
1. Any member of the faculty not teaching during any given college year shall not have the privilege of voting in faculty meetings during that year.
2. New appointees shall not have the right to vote until one year after appointment, except those who may be appointed to the rank of full professor, or as the chairman of a department.

Dean shall be chairman of the faculty and ex officio a member of all committees. The action of each faculty is subject to the approval of the President and of the Board of Regents. A copy of the minutes must be filed with the President immediately following each meeting.

Departments

The department is the educational unit in the University. The chairman of each department is directly responsible to the Dean for the efficiency and educational effectiveness of the department. The chairmen of departments make all department reports to the Dean and submit estimates to him for the expenses of their departments. For general administrative work the chairman of the department is responsible to the Dean of that college in which his major work appears.

THE UNIVERSITY PLANT

CAMPUS AND BUILDINGS

The University has at its disposal a modern educational plant, supplied partly through State appropriation, partly through private gifts. The major portion of the institution is situated on the main campus, which commands an eminence in the northern part of Reno. Here are gathered more than a score of buildings, centering upon Morrill Hall, the original structure on this site, in which the University was rededicated in 1886. Here are the main buildings which house the administrative offices, the classrooms and laboratories and libraries, the dining and living quarters for students, social and athletic facilities, and space for many of the research activities conducted by the University or associated with it.

The major buildings which house the University may be described as follows:

AGRICULTURE BUILDING—A three-story structure of brick, with stone facings and trimmings, situated directly east of Manzanita lake. The first floor includes the administration offices, four classrooms, a large lecture room, a biology laboratory, and the clothing laboratory. The second floor is devoted to Home Economics and Zoology, and includes the dining room and the food and clothing laboratories, as well as the zoological laboratories. The basement includes laboratories for dairying, farm crops, soils research (Experiment Station) and botany. (1918*)

AGRICULTURAL EXTENSION BUILDING—A two-story gray-stone building on the west side of the quadrangle. Fitted with laboratories and classrooms, it was used for chemistry until the fall of 1930. Thoroughly renovated and remodeled on the interior, this building has been occupied from the beginning of 1936 by the Staff of the Agricultural Extension Service of the University. (1902)

ARTEMISIA HALL—A modern brick residence accommodating 100 women students in comfortable rooms. The hall is located north of the dining hall on North Virginia Street. Artemisia's spacious living room, containing a large fireplace and a grand piano, becomes the center of social activities during recreation hours.

DINING HALL—One-story brick building on the west side of the campus, scientifically equipped and accommodating 250 students. (1926; enlarged to accommodate 350 students, 1945)

*Figures given in parentheses at the end of paragraphs describing the buildings state the years in which the respective buildings were completed.

EDUCATION BUILDING—A two-story brick building, with stone facings and columns, situated north of the Agriculture Building. It contains an auditorium seating 350, with stage and dressing room, a music room, and classrooms and offices of the School of Education. It also houses the Department of Economics, Business, and Sociology and the Department of Psychology. (1920)

ELECTRICAL BUILDING—A two-story brick building, 50 x 110 feet, situated on the east side of the campus. The first floor contains offices, classrooms, and the electrical laboratories. The second floor contains the electrical engineering library and reading room, classrooms, and a computing room. (1912)

ENGINEERING BUILDING—A fireproof, reinforced concrete, brick and stone building, located on the flat east of the quadrangle, and facing west. It houses the Departments of Civil and Mechanical Engineering. There is a frontage of 150 feet with an ell extending east 110 feet. The basement contains the following laboratories: (Civil Engineering) fluid mechanics, materials testing, concrete and cement testing; (Mechanical Engineering) calibration and general mechanical. The first and second floors are devoted to offices, classrooms, and drafting rooms. (1941)

GREENHOUSE—A working greenhouse on the east side of the campus is used by the Departments of Botany and Horticulture. (1909). An addition was built with Federal Relief Funds. (1934)

NEW GYMNASIUM—A building of brick and reinforced concrete, 170 x 206 feet. The main floor contains a large playing court 104 x 120 feet flanked on either side by balconies for spectators, and when used as an auditorium seats approximately 3,500. The building provides offices and facilities for Physical Education, Athletics, and Military. (1943)

OLD GYMNASIUM—A brick building, 150 x 60 feet. The assembly hall, 100 x 60 feet, is used for general University purposes. The building is devoted to the Department of Physical Education for Women. Plans have been made to convert this building into an Armory for the R. O. T. C. Military unit. (1897; extension, 1922; converted for temporary use as a men's dormitory, 1946)

HALL OF ENGLISH—A one-story building situated on the west side of the quadrangle, constructed of brick and stone in conformity with the architecture of other buildings. Since its construction it has housed the Library and the departments of English and Journalism. It is now being remodeled as a Journalism Building. (1913)

HATCH STATION—Enlarged in 1926, occupied by the Agricultural Experiment Station. The Department of Meteorology and

the Station Library occupy the first floor. The second floor is occupied by the Departments of Entomology and Range Management and the offices of the Station Director. The herbarium occupies the third floor. (1891; moved to Virginia Street, basement added, 1926)

HEATING PLANT—A central plant supplying most of the buildings on the campus. It consists of four large boilers, pumps, engines, motors, etc., and is operated in connection with the mechanical engineering laboratories. (1908; enlarged, 1926)

INFIRMARY—A one-story building containing nine rooms and a basement, situated between the Gymnasium and Lincoln Hall. There are four wards—two for men and two for women. A registered nurse is in charge at all times, and the physician engaged by the University Health Service has daily office hours. (1902; enlarged, 1941.)

LIBRARY—CLARK MEMORIAL—A two-story and basement fireproof brick building, the gift of Mr. William A. Clark, Jr., in memory of his wife, Alice McManus Clark. The main stackroom and a receiving room are in the basement. The first floor has workrooms and seminar rooms. The second floor includes the main reading room, a periodical room, a display room, and the main offices of the librarian and staff. (1927)

LINCOLN HALL—A three-story brick building with accommodations for seventy-two men, situated north of and facing Manzanita Lake. (1896)

MACKAY SCHOOL OF MINES BUILDING—A gift of Mrs. John W. Mackay and Mr. Clarence H. Mackay, housing the Departments of Mining, Metallurgy, and Geology. It is a dignified and spacious structure in the colonial style, 112 x 118 feet, and has two stories throughout with basement. In the basement are storerooms, the seismograph laboratory, mining laboratory, museum, shower and locker rooms for the students, and the ore dressing laboratory.

On the first floor are the chemical laboratory, electric furnace laboratory, first mezzanine floor of the mill, assay laboratory, museum, library, classrooms, offices of the Director, metallurgy department, and mining department.

On the second floor are the State analytical laboratory, the mezzanine floor of the museum, drafting room, seminar room, instruments room, office of the Department of Geology, the Mackay Research Library, the mineralogy laboratory, maproom, petrography laboratory, petrography grinding and polishing room, classrooms and Mackay research room. (1908; enlarged, 1926)

MACKAY SCIENCE HALL—A reinforced concrete, fireproof, brick and stone building, 170 x 80 feet, housing the Departments of

Chemistry, Physics, and Mathematics. A full basement and a subbasement of 1,600 square feet have laboratories and storerooms for chemistry and for physics. The two main floors have laboratories, classrooms, lecture rooms, storerooms, and offices for chemistry, physics, and mathematics. (1930)

MANZANITA HALL—A brick building, located on Manzanita Lake. It accommodates 100 women students.

MECHANICAL BUILDING—A two-story brick structure, 80 x 80 feet, on the east side of the quadrangle adjoining the Electrical Building. It contains the machine shop, pattern shop, and welding shop. The carpenter shop of the Department of Buildings occupies a portion of the second floor. (1897)

MINES EXPERIMENTATION BUILDING—A two-story brick building with basement, situated north of the east wing of the School of Mines Building, housing the storage rooms, laboratories, library, and offices of the United States Rare and Precious Metals Experiment Station. (1921)

MORRILL HALL—A three-story brick building with a large basement. On the first floor are the offices of the President, the Comptroller, and the Registrar. The Department of Philosophy and offices occupy the second floor . The third floor is used for offices of the Departments of Farm Development, Soil Conservation, and Agricultural Economics of the U. S. Department of Agriculture. All three agencies are working in cooperation with the Agricultural Experiment Station. The University Post Office and storerooms and the office of the Superintendent of Maintenance are in the basement. (1886)

PRESIDENT'S HOME—A comfortable three-story structure situated on the southeast corner of the campus. (1900)

STEWART HALL—A three-story brick building with a basement. The basement is used for the student recreation center and the office of the Y. W. C. A. Secretary. The Department of History and Political Science occupies the first floor. The second floor is occupied by the Department of Foreign Languages. (1890)

STUDENT UNION BUILDING—A story-and-a-half stucco building, housing the offices of the graduate manager, the A. S. U. N. President, and the student publications. This building and land, formerly the property of the Nevada Historical Society, was given to the University by the 1931 Legislature.

THE MACKAY FIELD AND TRAINING QUARTERS — A natural amphitheater which had been leased to the University for a number of years by former Regent Evans, was purchased for the

University by Mr. Clarence H. Mackay and provisions made for its improvement. Later he purchased an additional twenty-six acres to the north of and adjacent to this tract. To care for other branches of athletics, such as basket ball and tennis, the Nevada Legislature of 1909 provided for the purchase of additional land to the south of the old field, so that now about ten acres of land is being used for athletic purposes. The improvements donated by Mr. Mackay include the Training Quarters Building, situated on the east side of the field (1909), which has showers, baths, locker and dressing rooms, a committee room, and a lounging room. On the west bank are the bleachers and colonnade. The natural slope of the bank has been utilized so that the field closely resembles the stadium used at the ancient Olympic games. Originally, in 1909, there were seventeen tiers of concrete, with a colonnade for a covered grandstand in the rear and a seating capacity of about two thousand. In the summer of 1929, through an added gift from Mr. Mackay, this stadium was enlarged to have a seating capacity of more than five thousand.

Situated between these structures is a full-sized football field, surrounded by a quarter-mile track which has an arm extended to make provision for the 220-yard events.

VETERINARY SCIENCE BUILDING—A two-story brick and stone building situated on the east side of the campus directly east of the Mechanical Building. Remodeled on the interior in early 1936, this building now houses the Veterinary Control Service and the bacteriological and chemical laboratories of the University's Agricultural Experiment Station. (1913)

THE EXPERIMENT STATION FARM—A sixty-acre farm, east of the University campus, given by the citizens of Washoe County for agricultural experimentation. (1899)

THE UNIVERSITY FARM—Four miles south of Reno the State purchased, in 1917, a 213-acre farm primarily for use as a stock farm. Substitutional arrangements for using equipment and livestock of private dairy farms and equipment and flocks of private poultry farms have been in effect since July 1931 in connection with the dairy and the poultry courses. During this period the farm has been leased to private interests.

THE EXPERIMENTAL DAIRY FARM—On September 6, 1944, Major Max Fleischmann gave his 258-acre dairy farm to the University. Equipped as a commercial dairy, this farm has various buildings, including a residence, bunk house, and laborers' quarters. It also has a herd of dairy cattle, farm equipment, and machinery. This farm can be reconverted easily into a satisfactory laboratory for the benefit of the students in the College of Agriculture.

Equipment and Materials

Within the buildings of the University is the various equipment necessary for the operation of a modern educational institution. All bureaus and departments have special facilities for research or for effective instruction. Some collections of material, however, are of such intrinsic importance, or are so useful to the student or to the general public that they warrant special mention. These materials are all open for the use of qualified students, and in many instances to the general public. Many facilities are free; when a charge is made, it is nominal, and usually only enough to cover breakage, or the cost of materials and service required by the individual.

Libraries

The University libraries are intended to supply the rarer books and printed materials to support the courses offered by the University, to assist the investigations undertaken by the research and teaching staffs, and to provide space for study. Insofar as funds are available, an attempt is made also to provide for recreational and cultural reading. The libraries contain more than 85,000 bound volumes and more than 25,000 unbound serials and pamphlets. The current periodicals, chosen especially for their importance in cultural, technical, scientific, and scholarly fields, number almost 600; they include 25 newspapers. The actual choice of books is usually made by the University experts in the various fields, in order that the works will be available which will be most useful for the curricula which the University offers. The collections have been supplemented by private gifts.

The general collection is housed in the Alice McManus Clark Memorial Library Building, on the second floor of which is the general reading room and reference desk, where students may obtain the books required in their courses. A general reference collection is available on the open - shelf plan, and individual rooms house special collections. Especially useful are seminar collections for the departments of agriculture, classics, economics, English, and foreign languages, where books in special subjects are brought together to facilitate the work of advanced students. These rooms are used also for some seminar classes, so that teacher, student, and source materials can be brought together for the best teaching results. Of especial interest are the Hester Mayotte Library, containing rare books in foreign languages; the Nevada history collection, containing some of the rarest Nevada newspaper files, and the Charles Cutts loan collection of fine printing. The University is an all-depository for the publications of the Federal Government and has recently been made a depository of the Army Map Service of the War Department.

It is the purpose of the library staff to encourage new students to acquire early in their first year an ability to use the library and its principal tools, the card catalogue and the reference collection. This is accomplished mainly by personal instruction at the reference desk and by lectures to students in freshman English. For more advanced students a course in the use of the library is offered.

Agricultural Experiment Station Library

The Agricultural Experiment Station Library, containing about 5,000 bound volumes and a large number of pamphlets, is housed in Hatch Station. The volumes and pamphlets may be classified broadly as follows: Bulletins and Reports of the various Experiment Stations, publications of the United States Department of Agriculture, and general works on agriculture and the related sciences. Many current agricultural periodicals are on the tables in the reading room. The library is catalogued and classified, and suited for ready reference. It is open daily, and, while intended primarily for the use of the Station Staff, is also accessible to the public.

Mining Library

Reference books, text books, the recent issues and the bound volumes of technical journals and of the American Institute of Mining and Metallurgical Engineers, along with historical pictures and paintings are located in the attractive library room on the ground floor of the Mackay School of Mines.

The library as a whole consists of some 2,500 bound volumes in addition to which there is maintained a complete set of the publications of the United States Geological Survey and the United States Bureau of Mines, and fairly complete sets of similar publications issued by the States, and also the Nevada Bureau of Mines indexed file of the mining news of Nevada clipped from the newspapers of the State since 1929. The library is open daily during the year.

The Mackay Research Library

The Johannes Walther Library, comprising about 7,000 papers on desert geology, paleontology, ore deposits and other geologic subjects, is located in the Mackay research room on the second floor of the Mackay School of Mines Building. The funds to buy the library and to remodel and furnish the research room were supplied by Mr. Clarence H. Mackay.

Comstock Maps

Through the generosity of several donors the Mackay School of Mines has accumulated a very valuable collection of Comstock

maps, both surface and underground. These are filed in a large map case, a gift of Clarence H. Mackay.

The preservation of these maps has been of important economic value to the Comstock mining companies, and they have been referred to many times by engineers and students.

Mining Experiment Station Library

The library of the U. S. Bureau of Mines Station at the University consists of between 4,000 and 5,000 volumes and pamphlets. The important mining and research periodicals are received, together with the publications of the Bureau of Mines.

School Music Reference Library

Some 200 bound volumes and hand books of music materials for the elementary and high schools, including band and orchestra, class instruction of all grades, concert music, secular, and sacred choral music of different periods, vocal arrangements for different ages, operettas, violin and piano teaching material, are available in the music rooms and are especially valuable for students and teachers of public school music and for leaders of choral and instrumental groups.

Other Departmental Libraries

Seven laboratory collections are shelved outside the Clark library for the convenience of departments using them. Those dealing with animal husbandry, biology, and home economics are housed in the Agriculture Building; those for chemistry and physics in the Mackay Science Hall, and those for education and veterinary science in the buildings devoted to these subjects.

County and State Libraries

Also available to the faculty and students of the University are the facilities of the Washoe County Public Library in Reno, a general collection of almost 80,000 volumes, and the Nevada State Library at Carson City, a collection of more than 240,000 volumes, especially rich in law, history, and government publications.

Laboratories

Arts and Science Laboratories

Biological—The Department of Biology is equipped with the modern instruments and apparatus necessary for university-level teaching and research in the life sciences. These include microscopes, balances, microtomes, ovens, sterilizers, incubators, oscilloscopes, spectroscopes, conductivity apparatus, constant temperature equipment, refrigerators, complete chemical and glassware stockroom, maps, and other biological equipment.

Greenhouse facilities are available. Transportation is provided for field work in taxonomy, entomology, plant ecology, vertebrate zoology, and wildlife management. A biological library, the University Herbarium, and a museum complete the facilities of the department.

Chemical—The Mackay chemical laboratory occupies the north half of Mackay Science Hall. The large lecture room, department library, seminar and classrooms, occupying the central part of the building, give ample room for reference and other work connected with the laboratories. Four laboratories accommodating twenty-four students each and fitted with gas, water, electricity, individual desk hoods, etc., occupy the northeast portion of the basement and first floor for the use of general chemistry and qualitative analysis. In connection with these laboratories are two balance rooms and a hydrogen sulphide room. Above these laboratories, on the second floor, are situated the laboratories for quantitative analysis and organic chemistry. Each will accommodate twenty-four students working at the same time. They are fitted with gas, water, steam, vacuum, compressed air, alternating and direct current electricity, fume hoods, ovens, etc. A balance room and Kjeldahl digestion room are located close by.

In addition to these, smaller laboratories are provided for physical, physiological and advanced inorganic and organic chemistry. These are all equipped with gas, water, steam, compressed air, vacuum, electricity, fume hoods, etc., for advanced work and research in these fields. A dark room, refrigerator room, and large storerooms for supplies are provided. The dispensing room is situated on the first floor and connected with the other two floors by an electrically driven dumb waiter so that students working on any floor may be served conveniently and with little delay.

A furnace room, equipped with both gas and electric furnaces of various types, and a grinding room with various grinding machinery are located in the basement.

Geological—The Department of Geology is provided with reference collections illustrating the minerals, rocks, and fossils, and with class collections for study and determination. Also all folios and some 2,000 topographic maps published by the U. S. Geological Survey are provided for laboratory use. The mineralogical laboratory is arranged, for the present, for the accommodation of single sections of forty students. There is, in addition, a laboratory fitted up for microscopic work, and equipped with petrographical microscopes and the necessary accessories. It has also a set of mineral thin sections cut in definite direction, and a collection of rock sections with many representatives of each of the chief types, together with many sections illustrating special types. A separate grinding room is provided with apparatus

for making thin sections of rocks and minerals. Blowpipe and other chemical work is also provided for. A lantern with a growing collection of slides furnishes additional illustrative material for lecture work. A dark room for photography is also provided for the department.

Journalism—Instruction in the Department of Journalism profits from the use of three laboratories. The newsroom in the Hall of English is equipped with typewriters, a copydesk, newspaper files, a reference library, and other facilities similar to those in a daily newspaper newsroom. The printing laboratory includes type, presses, makeup materials, and other equipment of a complete, one-man job printing plant. The facilities of the Reno newspapers, Reno's national news gathering and distributing bureaus, and the Wilson Advertising Agency, the Carson City Nevada Appeal, and Radio Station KOH, Reno, serve as laboratories for students in the course in journalism internship.

Music—A college music set was donated to the University by the Carnegie Corporation of New York City in 1935. It includes phonograph records, musical scores, books on music, and one of the finest phonographs obtainable, an automatic Capehart.

In this set are 824 records representing all nations, periods, styles, vocal, choral, and instrumental combinations. The earliest composition dates from ancient Greece, and the latest includes modern compositions of contemporary composers.

The set includes 129 books of the best and latest musical biography, history, theory, and criticism and 251 scores corresponding to the records. All are alphabetically catalogued and classified in several ways for convenient reference.

The records, scores and phonograph are available to the student body and the community for special reference use in the music rooms. The books are in the library.

In addition to this gift set the University has a considerable collection of reference books on music, biography, theory, history, encyclopedia, folk song, oratorio scores, and song collections, together with some valuable records. With the book, score, and record items of the Carnegie set, these constitute a very comprehensive music library.

The University owns several instruments including a bass viol, bass horn, French and alto horns, kettledrums, oboe, bassoon, and other equipment available for students to use in the orchestra and band, and has the use of 30 band instruments furnished by the War Department.

Physics—The physics laboratory is located in the south wing of Mackay Science Hall. The various divisions of the laboratory occupy the subbasement, a portion of the basement, and a special room for advanced work on the first floor of the building, as well as a radio laboratory in the attic.

In the subbasement are located the storage-battery room, a general storeroom, a constant temperature research room, and three smaller rooms.

In the basement are located the department's photometry room, the generator room, the shop, the photographic dark room, the laboratory for general physics, the laboratory for electrical measurements, a spacious storeroom connecting and serving the two laboratories, and a steel and concrete vault for the storage of the better grade of electrical instruments belonging to the department.

Both of the laboratories contain distributing panels by means of which storage battery, generator, and alternating current power can be delivered to all the various outlets in the different laboratories and lecture rooms occupied by the department.

The photometry room is provided with a standard three-meter photometer bar equipped with a compound rotator and a Lummer-Brodhun photometer, and with a thirty-inch Ubricht sphere which is used in making measurements of spherical candlepower.

The generator room is provided with a switchboard to which is connected a constant potential charger, used in charging the storage batteries, a 10 kw. motor-generator set, and a special three-phase motor-generator set for experimental work. The switchboard is so connected to the storage batteries located in the subbasement that one can secure voltages ranging from 2 to 220 volts for all distributing panels of the department.

The department shop contains an instrument lathe, wood lathe, drill press, jointer, jigsaw, and various small tools required for all types of instrument repair work. Glass blowing facilities are also available.

Engineering Laboratories in the College of Engineering—The Civil, Mechanical, and Electrical Engineering laboratories are amply provided with the necessary equipment for teaching the theory and practice of engineering in each of these three fields. Courses of instruction are described in the catalogue under the heading "College of Engineering." (See index.)

Mining School Laboratories

Assay—The fire assay laboratory in the Mackay Building is equipped with eight gas-fired muffle furnaces and a gas-fired melting furnace, six Thompson pulp scales for weighing assay pulps, and a suitable hood for parting. Adjoining the laboratory is a storeroom for supplies and a grinding room for the preparation of samples.

Connected with the fireroom is the weighing room. Both chemical and button balances for assaying work are placed in this room. The equipment consists of two analytical balances and eleven button balances.

Chemical—The chemical laboratory of the School of Mines is fully equipped with the usual desks, hoods, hot plates, and air baths. Electric air baths and drying pans are provided for overnight work. Four four-gallon slime agitators, driven by a small electric motor, are used for slime tests. A direct connected electric driven exhaust fan draws the air from the hood in this laboratory. A complete electrolytic outfit for lead, copper, and other determinations has been installed. The equipment also includes a Richlitz automatic water still, a Monroe hydraulic classifier, and a Spencer binocular microscope.

Geological and Mineralogical—The Department of Geology is provided with reference collections illustrating ores, minerals, rocks, and fossils, with class collections for determination. Complete sets of United States Geological Survey publications and maps, most of the State Geological Surveys publications, and many foreign surveys are kept on file.

The mineralogical laboratory is well equipped for blow-pipe and chemical work, with a large collection of minerals for determination. Binocular miscroscopes and other accessories are also available.

Petrographic—The petrographic laboratory includes the following equipment:

One Sauvier & Boylston polishing machine; apparatus for hand polishing; rock saws; seven grinding laps; eight Bausch & Lomb petrographic microscopes; one Iver tint photometer; seven Leitz petrographic microscopes; one Warner & Swasey polishing and grinding machine; one reflecting goniometer; one Abbe refractometer; one microscope for the study of polished sections of opaque ores and minerals; 1,200 slides of rocks and minerals; 1,500 hand specimens of rocks and minerals.

Seismograph—The seismograph laboratory equipment consists of one Weichert inverted two-component seismograph, and a small Ewing duplex pendulum. The records are used chiefly for the study of earthquakes of local origin.

Metallurgical Laboratories—The metallurgical laboratories are excellently equipped with suitable apparatus to conduct experiments and tests in ore dressing and hydrometallurgy, including crushing, gravity concentration, flotation, and leaching. They include apparatus for microscopic study of metals and fire assaying, and some electrometallurgical apparatus.

Metallographic—The metallographic laboratory is equipped with the following:

One Sauvier & Boylston polishing machine; one Warner & Swasey polishing machine, and a Leitz grinding machine; two large Leitz metallurgical microscopes with photomicrographic cameras; one Heele-Berlin spectroscope; a Bausch & Lomb

quartz spectograph; a Leitz ultropaque microscope; one Spencer metallurgical microscope; one electric hot plate; one set prepared specimens of the common and ferro alloys.

Electro-Metallurgical—The electro-metallurgical equipment consists of a Munning direct current generator operated by alternating current motor; one large General Electric automatically controlled heat treating furnace; one small heat treating muffle furnace, a small arc melting furnace, and one General Electric motor generator rated at 220 volts, 20 amperes. Additional equipment is also available in the United States Bureau of Mines Building.

Mining—The mining laboratory consists of the following equipment: One 8½-inch by 9-inch Laidlaw feather valve compressor; one 25 hp. motor, belt-connected to compressor with instruments for the measurement of volumetric efficiency and power consumption; a collection of rock drills and equipment for use upon a concrete building block; mine equipment models; and equipment for mine sampling and mine examination.

The operating mines on the Comstock Lode are close enough to offer abundant opportunity for student study of operating mining equipment, both surface and underground.

Agricultural Laboratories

Dairy (Room 12, Agriculture Building)—This laboratory contains machinery for the manufacture of butter, ice cream and cheese, and equipment for bottling milk and sterilizing utensils. It also has full equipment for making quantitative and qualitative tests of all dairy products. The present equipment can easily accommodate ten students in any one section.

Experiment Station Chemical—This laboratory is equipped for research and analytical work in chemistry. It is used for chemical work in relation to the agriculture of the State and to the research projects of the Agricultural Experiment Station.

Farm Crops—This laboratory includes a large display of samples of seeds and matured plants of the different varieties of cereal and forage crops. The equipment includes a large electric germinator for testing all kinds of farm seeds for germination; testers and cleaners; dockage machines; and other equipment used by the Federal Government for the commercial grading of grain and hay. Students will make germination and purity tests of commercial samples of farm seeds sent to the laboratory from the various farming districts of the State.

Soils Research Laboratory, Experiment Station—This laboratory is equipped for conducting research on soils and soil fertility. Its facilities provide for both macro- and micro-chemical analyses, as well as for the many chemical operations necessary in

research work of this kind. A constant-temperature room for small plant cultures is a part of the equipment. Also, there is a small experimental greenhouse to accommodate pot cultures and other tests of soils by plant growth.

Veterinary Science—This laboratory is fitted for research in pathology and bacteriology. It is used for the work of the Department of Veterinary Science in the Agricultural Experiment Station, and the State Veterinary Control Service.

Home Economics Laboratories

Food—An up-to-date food demonstration laboratory has a seating capacity for fifty. A food laboratory seats sixteen, and a small adjoining laboratory accommodates one.

Clothing—The clothing laboratory is equipped with sewing and drafting tables, sewing machines, and smaller equipment needed for the work of the classes in clothing. Twenty students can be accommodated in this room. Adjoining this laboratory are the garment fitting and locker rooms.

Scientific Collections

Mackay Museum

The Mackay Museum, located in the northwest wing of the Mackay School of Mines, contains the mining, metallurgical, geological, and mineralogical displays. The exhibits in this museum are arranged in such a manner as to give a good general idea of the mining industry of the State of Nevada, and to illustrate standard classifications of minerals and rocks. On the wall at the right of the entrance to the museum is a large map of Nevada, showing the location of all the mining districts of the State, while in the center of the museum at the rear there is a topographical relief map of the State on a scale of 4 miles to the inch. The show cases on the left-hand side of the museum present a collection of minerals arranged scientifically according to Dana, followed by a systematic collection of rocks; the cases on the right-hand side of the museum are devoted to displays of Nevada ores of the precious and base metals and of Nevada economic minerals, arranged according to counties, while the cases on the center aisle contain collections of minerals arranged according to their economic uses.

On the mezzanine floor are the following exhibits: East side—Cases containing fossil specimens, and a systematic collection of rock specimens and small mining relics. North side—An excellent working model of a mine headframe, hoist, skip, and stamp mill, along with Comstock mining relics. West side—A display of Comstock Lode ores, relics, pictures, and maps, along with a display of mine models of various types. South side—Prehistoric

footprints in sandstone as found in the prison yard at Carson City, along with pictures and plaster casts.

The basement contains a display from the San Francisco Golden Gate Exposition of murals depicting mining and 1849 scenes, twenty replicas of United States gold, silver, and copper coins; sixteen illuminated Rand-McNally maps, wired to show the location and production of the chief metals and minerals of the United States; models of dredges, and an illuminated case displaying copper products from mine to brass. In addition there is a collection of rock drills from the time of the Sutro Tunnel to the present day, models of mines and equipment, and a large collection of ore specimens from various parts of the world. The most recent addition to the basement display is the valuable and attractive Joseph D. O'Brien mineral and curio collection, the gift of F. S. Markam.

Many valuable gifts have been made to the Mackay Museum too numerous to list, and its continued growth depends largely upon the generosity of those engaged in the development of the mining industry of Nevada. Contributions of specimens of country rocks, ores, minerals, and metallurgical products, and of photographs, maps, diagrams, and models are greatly desired. The museum is open to the public during the school year, and as far as possible every facility will be placed at the disposal of anyone who wishes to inspect or study the various collections.

Biological Collections

The biological collections are in the Agriculture Building. A portion of the collections, including economic insect life histories and mounts of economic birds and mammals, is arranged here for public exhibition.

The biological collections include a set of some 400 skins and mounts of native birds; 100 sets of birds' eggs and about as many nests, donated by Mr. Steinmetz of Carson City; 250 insect life histories and several miscellaneous groups; 75 stuffed mammal skins and mounts; 25 mounted skeletons of various vertebrates; nearly a thousand general museum preparations; about 10,000 prepared microscopic slides; some 200 zoological and physiological models, and about 60 botanical models, some 900 lantern slides, as well as much miscellaneous material.

Herbaria

The Herbarium, located in the Agriculture Building, now contains approximately 20,000 sheets, comprising what is probably the most complete collection of Nevada plants in existence. It is particularly valuable in studying the distribution of native and introduced plants in the State and for checking identifications of plants sent in by Nevada citizens. The collection of

grasses is especially full. Roughly 13,000 of the specimens were collected as a cooperative project with the Bureau of Plant Industry of the U. S. D. A., the Works Progress Administration participating. The herbarium is in charge of the botany staff.

The Nevada Agricultural Experiment Station herbarium now contains 15,750 mounted sheets, nearly all of western species, and at least half of them from Nevada. Certain of the forage plants, as grasses, clovers, and lupins, are especially well represented. Although, as yet small, this collection is of considerable importance, as it contains a number of types and typical plants obtained from type localities.

Connected with this herbarium is a large number of negatives depicting various phases of plant life.

Pathological Museum

The Department of Veterinary Science has a collection of several hundred permanently mounted gross pathological specimens covering practically all the common infectious diseases of animals and miscellaneous disease processes of particular interest. The collection also contains some material from human sources, mostly representing disease processes common to both man and the lower animals. This collection is available for teaching purposes and inspection.

Chemical Specimens

A number of substances representing the field of the chemical industries have been collected and placed in cases in Mackay Science Hall. Among these are about 200 samples made and put up by students in the laboratory; about 80 samples of American-made dyes manufactured by the National Aniline and Chemical Company and donated by Professor Maxwell Adams; plastics, including artificial silk and leather; samples of inorganic salts prepared by J. T. Baker Chemical Company; distillation products obtained from crude petroleum prepared by the Standard Oil Company and the Texas Oil Company, and zinc products prepared by the New Jersey Zinc Company.

Information for Students

General Statement

The University endeavors to anticipate the needs of students and to provide them with a good home and with congenial surroundings for intellectual and social growth during their college years. Having in mind, also, that modest financial means should not be an insuperable bar to higher education, the administration makes every effort to reduce the necessary cost of attendance at the University. At the same time, the student should remember that even in an institution where much of the cost is borne by the State, higher education cannot be cheap if it is to be good. No student should attempt to attend the University without some financial backing. On the other hand, the University is able to offer assistance to worthy students, and there are many means within the community by which a serious and capable student can help himself. For costs of attendance, see *Student Expenses,* below.

Curricula and Courses

The University offers a wide variety of courses intended to provide general culture, and basic courses for all branches of technical and professional training. In addition it provides advanced study in many fields, and in some departments offers preparatory work for students deficient in their high school preparation. For courses and curricula offered by the University, see the index, *Organization of the University,* and *Courses of Instruction.*

Student Expenses

A student's expenses will depend somewhat upon his course of study, but more upon his personal habits and the standard of living which he allows himself. A student's expenses may be conservatively estimated as follows:

TABULAR ESTIMATE OF NECESSARY ANNUAL EXPENSES OF STUDENTS EXCLUSIVE OF PERSONAL INCIDENTALS, CLOTHING AND TRAVELING.[1]

	Low	Moderate	Liberal
[2]Tuition	None	None	None
Board, 8½ months	$375.00	$400.00	$425.00
Room	80.00	90.00	125.00
[3]Laundry	25.00	35.00	50.00
[4]Books, stationery, etc.	30.00	35.00	45.00
Fees (laboratory, athletic, health service, etc.)	50.00	55.00	65.00
Fees (registration and incidental)	25.00	25.00	25.00
[5]Totals	$585.00	$640.00	$685.00

For a more detailed consideration of these expenses, see *Tuition, Fees,* and *Living Costs* and *Conditions* below, or consult the index for page references.

Aid for Students

It is the purpose of the officers of the University to aid meritorious students of limited means so far as it lies in their power. Some of the work in and about the University buildings and grounds is done by young men and young women. Students are favored whenever possible with such work as typewriting, copying, housework, dining-hall service, and janitorial service. A committee allots the open positions to students who apply, giving preference to those who have good scholarship records, who need the assistance, who do the work well, and who are upper-class applicants. Applications for campus employment should be made to the Chairman of the Campus Employment Committee, in the office of the Dean of Men. It is to be remembered that the power to favor students with self-help is limited by circumstances and *therefore students cannot expect to earn enough to pay all their expenses while pursuing their studies.*

It is clearly better, both for the individual student and for the common student life on the campus, that students do their necessary money-earning during the long summer vacation. If they can have all their time during their University year free for their studies and for their participation in general student activities, they will more surely develop themselves into fully rounded men and women than if they are compelled to devote many hours each

[1]The low and moderate estimates apply to residents of dormitories. The liberal estimate, with the exception of books and fees, applies to students living elsewhere.

[2]*Students from outside the State of Nevada must add a tuition of $100* each semester.

[3]This item may be greatly reduced by residents of the dormitories who choose to take advantage of the house-laundry facilities.

[4]All engineering students will require complete drawing outfits. These cost from $20 to $30. Students having this equipment should bring it with them.

[5]These amounts do not include the deposit of $10 required of all students at the beginning of each semester, the required military deposit, nor the cost of drawing outfits needed by all engineering students, nor do they include the cost of special uniforms needed in some departments, such as the gymnasium uniforms.

week to work for pay. *Particularly is it desirable that first-year students should, if possible, plan to finance fully their first University year without the necessity of working for pay.*

EVERY STUDENT FROM NEVADA SHOULD HAVE AT LEAST $175 CASH IN HAND, AFTER REACHING THE CAMPUS, TO START ANY UNIVERSITY YEAR PROPERLY. OUTSIDE STUDENTS SHOULD HAVE $275 IN HAND TO START THE YEAR.

Tuition

The State of Nevada offers its citizens free tuition at the State University. Students from without the State should read the following provisions, which govern the payment of nonresident tuition.

The Board of Regents is empowered to charge tuition to students who come from outside Nevada. The Board of Regents set this *tuition charge, payable by students from outside Nevada, at $100 per semester,* beginning with July, 1945. *A two-thirds rebate is allowed on this nonresident tuition charge if the student formally withdraws within the first three weeks of any semester, and a one-half rebate is allowed if the student withdraws between the end of the third week and the end of the eighth week. No rebate is allowed if the student withdraws after the end of the eighth week.*

There are three classes of applicants for enrollment entitled to exemption from this nonresident tuition:

I. Any applicant or student whose parents live in Nevada.

II. Those applicants who have themselves been bona fide residents of Nevada at least six months prior to the opening date of the semester in which they matriculate in the University of Nevada.

III. Those individuals whose parents do not live in Nevada but who themselves are married persons, so soon as they shall have lived in Nevada as married persons for six full months.

The Board of Regents of the University has given instructions to the President concerning the first two classes of applicants and has set the University penalty for false testimony in relation to residence as follows:

Case I

The President of the University is authorized and directed to grant exemption from nonresident tuition to any applicant for matriculation or to any student whose parents live in Nevada. "Parents" in this connection means both father and mother if both are living and are not legally separated. In case one parent is dead or if parents have been legally separated, this residence

requirement may be satisfied by residence in Nevada of the one parent with whom the applicant is living. In case both parents are dead, the applicant may be exempt from nonresident tuition on this basis only if the applicant's legal guardian lives in Nevada.

CASE II

The burden of proof is upon any applicant whose parents do not reside in Nevada to show that said applicant has been a bona fide resident of Nevada continuously for at least six full months just preceding the opening date of the semester in which he matriculates. The President of the University is authorized and directed, before granting tuition exemption to any applicant whose parents do not reside in Nevada, to require: (a) Every such applicant to furnish a sworn statement that he has satisfied the above residence requirement, and (b) every such applicant to furnish sworn statements testifying to the applicant's fulfillment of the above residence requirement from each of two established adult Nevada residents.

If in any case after the admission of a student receiving exemption from nonresident tuition in either of the above classifications the University receives clear evidence that materially false statements as to Nevada residence have been made in the sworn statements, then the President of the University is authorized and directed to expel such student from the University of Nevada. The residence status of the student at the time of his matriculation governs his entire enrollment in the University.

LIVING CONDITIONS

The University makes every effort to assure students of suitable living conditions, food and housing. The core of the housing system is provided by the University dormitories, which supply complete living facilities for a considerable number of men and women. Here the young people have good rooms, meals prepared with dietetic control, and a supervised social life. A number of fraternities and sororities, national and local, maintain chapter houses which are considered part of the campus. They offer certain social advantages, along with good living conditions, and are under the supervision of the University administration. In addition to these facilities, exclusively for students, living quarters and dining rooms are available on a commercial basis in Reno, which, as a small city, offers a variety of accommodation. University regulations covering the living conditions of students are relaxed in the cases of young people living with their parents in the community.

RESIDENCE HALLS

Manzanita and Artemisia Halls — Manzanita and Artemisia

Halls provide campus residence for women students. Here the students learn group living. They have their own self-governing body and funds. The social directors and their assistants are college women who work for the best interests of the students.

All unmarried women students who are not residents of Reno or Sparks are required to live in one of the women's residence halls during their entire freshman year. The only exception to this rule may be made by the Dean of Women: (1) When written request has been filed in advance with the Dean of Women by parents requesting that their daughter be permitted to live with relatives whose home is in Reno or Sparks; (2) when parents have filed in advance a request that a freshman student be permitted to live with a sister who has reached the age of 25 years. Residence privilege in these halls will not be granted to married women unless they were formerly students of the University. Women students not living in a residence hall are required to select accommodations approved by the Dean of Women.

Application for residence privileges in Artemisia and Manzanita Halls should be made by students enrolled in the University during the latter part of the spring semester. The applications will be considered in order of their receipt. New students will receive an application for residence privilege when they receive their admission card from the Committee on Admissions. The residence form should then be completed immediately and mailed to the Dean of Women together with a check* made payable to the Board of Regents.

Room rent for each semester (with roommate) $36.00.

Room rent will be returned in full to the one making the reservation when notification of desire to cancel reservation is sent to the Dean of Women one week prior to the date of registering. If withdrawal is made from the University before the end of the third week of the semester, two-thirds of the room rent fee will be refunded. If withdrawal is made after the end of the third week and before the end of the eighth week, one-half of the room fee will be refunded. No refund will be granted if withdrawal occurs after the end of the eighth week.

No one can be given room in a dormitory until room rent for the semester has been paid.

All residents of women's dormitories are required to:

1. Register in and to carry throughout each semester at least fourteen credit hours of University work unless excused by the Dean of Women.

*The University cannot accept any checks unless the full amount of the check is due to the University—that is, the University cannot pay over to the student any cash balance.

2. Conform to the regulations of the Halls as adopted by the Artemisia and Manzanita Hall Association in consultation with the Dean of Women and the Social Directors.

3. Be provided with bedding for single bed, including sheets, pillow cases, blankets, and spread.

If window draperies, white curtains, and rugs are desired, they must be supplied by the students. White tailored glass curtains are furnished by the University. All personal articles and wearing apparel should be plainly marked with the name of the owner.

4. Take care of their own rooms and linen.

Mens' Residence Halls—The University is currently providing living accomodations for single men in Lincoln Hall, in three dormitories for veterans only in Highland Terrace, in the old Gymnasium, and the Field House. All dormitories are under direct supervision of the Dean of Men, and all assignments are made from his office. Applications for accommodations may be secured from the Office of the Dean of Men, and all new students will be supplied with application forms by the Office of Admissions when the student receives his card of admission to the University.

To be honored, all applications must: (1) *Be on file with the Office of the Dean of Men at least three weeks prior to the opening day of the semester;* (2) *be accompanied by a sum covering the room rent for the semester concerned. All checks and money orders for rent should be made payable to the Board of Regents.*

Room rent is as follows:

For each man for each semester.....$40.00
For each man for a six weeks summer course....$15.00

Rent will be returned in full to the applicant if due notification is sent to the Dean of Men, one week prior to the opening of the dormitory for the semester, of desire to cancel the reservation. If cancellation or withdrawal is later than one week prior to the opening of the dormitory for the semester, but not later than the end of the third week of the semester, two-thirds of the room rent will be refunded. If withdrawal is made after the end of the third week, but before the end of the eighth week, one-half of the room rent will be refunded. If withdrawal is made after the end of the eighth week no refund will be allowed.

No one will be admitted to a men's dormitory, nor will space be reserved, until the room rent for the semester has been paid. The applicant must agree to accept the space reserved for him by the Office of the Dean of Men. It is not possible to notify applicant as to the specific place allotted to him until he arrives on the campus.

All residents of Lincoln Hall are required:

(1) To abide by the regulations of the dormitories as adopted by the student residents and approved by the Dean of Men.

(2) To provide themselves with the following articles: One bedspread; at least two heavy blankets; one comforter; one pillow; one mattress protector pad 3 x 6 feet; six towels; personal toilet articles.

All clothing and personal property should be plainly marked with the name of the owner. If window hangings or rugs for the floor are desired, they also must be supplied by the individual.

The University furnishes lights, heat, sheets and pillow cases (which it launders), beds and mattresses, mattress covers, dressers, tables and chairs, clothes closets or lockers. Laundry facilities and equipment are provided for those who desire to do their own washing and ironing. The individual must supply his own electric iron.

Family Living Acommodations—The University has 36 family units in the Trailer Court, and has 112 apartment units in the Victory Heights housing project. All family units are allotted on the basis of priority, with residents of Nevada and former students from other States receiving preference. The current cost for family units is:

Trailer Court	$20.00 per month
Victory Heights apartments	34.00 per month

Occupants are required to furnish all personal items, including dishes, table ware, cooking utensils, bedding, rugs, draperies, etc.

All applications for family dwelling units should be addressed to the Office of the Dean of Men. Application forms will be sent upon request. New students will automatically receive application forms from the Office of Admissions when the applicant receives his card of admission to the University.

Applications should be on file with the Office of the Dean of Men not later than four weeks prior to the opening date of the semester for which the accommodations are desired. Notice of acceptance or rejection of the application for a family unit will usually not be sent earlier than two weeks prior to the opening to the particular semester. All occupants of family units are required to vacate them immediately upon withdrawal from the University or upon graduation therefrom.

The University Dining Hall

For the accommodation of the students the University conducts a Dining Hall under the supervision of a trained dietitian. The price of board will be $45 per month, which may be raised or lowered without notice, in line with current prices. At each student's first meal at the beginning of a University semester $5 will be collected at the Dining Hall which will be credited toward

the payment of the first month's board of the individual. Each student should therefore come prepared to pay this amount.

All women students residing in a University dormitory are required to board at the University Dining Hall. Men students may board at the University Dining Hall.

Regulations Governing the University Dining Hall

1. Board is payable in advance. When board is not paid by the fifth of the month, an additional 50 cents per day will be added until board is paid and receipt therefor from the Comptroller's Office is presented at the Dining Hall.

2. Students desiring to board regularly at the University Dining Hall will be required to register with the head waiter.

3. Registration at the Dining Hall will be made only on presentation of the Comptroller's receipt for board paid. In order to furnish board at the rate charged, it is imperative that all board bills be paid, and it is therefore ordered that no credit be extended. *Students who intend to board at the Dining Hall will be expected to come with sufficient money to keep their board paid one month in advance.*

4. Rebate for necessary absences or from withdrawals from the dining hall will not be made for a period of less than one week. For absences involving one week or more, the rate of rebate will be 4/5 of the amount paid by the student for the period in question. Due notice must be given and permission secured in advance, or no rebate will be allowed.

Preferences in Dining Hall and Dormitories Given to Nevada Students

The Board of Regents has adopted the following rule:

Whenever the requests for University of Nevada dormitory or dining hall privileges exceed the number that can be accommodated, preference shall be given as follows:

(1) To Nevada students.
(2) To formerly enrolled students from outside Nevada.
(3) To new students from outside Nevada.

Such preferences for Nevada students in the dormitories are open to all who apply not later than two weeks before the opening of any given semester. Nevadans making application later than such time will be accommodated if places are still open, but cannot be received otherwise.

FEES

All students are liable to some fees, although the total is seldom large. Students electing curricula requiring extensive equipment or considerable laboratory materials pay necessarily

higher charges. Fees may also be assessed for disciplinary reasons, especially to insure prompt attention to necessary procedures, for example, in registration. A list and explanation of fees follows:

Late Registration Fees

Each student shall complete his registration by the close of registration day, otherwise he shall pay to the Comptroller 75 cents for each day thereafter until his registration is completed.

A fee of $5 is charged for those registering later than the end of the week including enrollment days. *No exception is made to the rule.*

Matriculation Fee

Each new student must pay a matriculation fee of $5. This fee is paid once only by each student at the time of first enrollment in the University.

Registration and Incidental Fees

A registration fee of $7.50 per semester and an incidental fee of $5 per semester are to be paid by every student.

Uniforms

Young women are required to provide themselves with a regulation gymnasium outfit costing about $5 or $6.

Students in foods will be expected to wear suitable colored wash dresses. Those majoring in dietetics are expected to have three white uniforms.

Military students must make a deposit of $20 to cover uniform and equipment.

Laboratory Fees

Laboratory Fees — Departments giving laboratory courses must charge fees to cover special expenses incident to such courses. These fees are calculated to cover cost of materials used and the expense incurred for the individual student.

Blanket Deposit

At registration time a general deposit of $10 is required from each student. Breakage or damage in all laboratory courses, in library, in dormitories and in any other University connection is charged against this deposit. The remainder of this deposit, after all above charges, if any, are deducted, will be returned at the end of the University year only unless a given student is not returning for the second semester. The military deposit is additional to this general deposit. If there are substantial first semester charges reported against any given student, the Comptroller has authority to require that student to renew his deposit to the full $10 at the beginning of the second semester.

Associated Students Membership Fee

At the request of the Associated Students of the University the Board of Regents made the fee for membership in the student association a compulsory fee upon all students except:

1. Visitors.
2. Members of the University staff.
3. Nevada school teachers in active service.
4. Graduates of this or of any other four-year University course.
5. Students who are adult, bona fide Nevadans, registering for five or less semestral University credits.

It is understood that any student registering in any of the above exempt classifications has the *privilege* of paying the student fee and securing the benefits which accrue to the students. This fee of $13.00 per semester includes subscriptions to the U. of N. Sagebrush and, in the second semester, to the Artemisia, pays up each student's class dues and covers admittance to all regular Varsity athletic events and must be paid to the Comptroller at the time of registration.

University Fees

Students enrolled for five or less semester hours will pay a fee of $2 per credit hour in addition to the regular matriculation, registration, and incidental fees. Students securing the privilege of visiting classes will be charged a fee of $1 per course credit hour.

TABLE OF TUITION CHARGES, FEES AND DEPOSITS PER SEMESTER

	Fees	
Agronomy 7	$5.00	
Agronomy 46	3.00	
Agronomy 54, 68	2.00	
Agronomy 61	10.00	
Animal Husbandry 3	10.00	
Animal Husbandry 56, 59	5.00	
Animal Husbandry 61, 62	3.00	
Art 1, 2, 3, 4, 5, 6, 53, 54	3.00	
Associated Students Fee	13.00	
Bacteriology 51	5.00	
Botany 1, 55	4.00	
Botany 21, 26, 64, 75, 76	4.00	
Botany 22	1.00	
Botany 53, 54, 68	2.00	
Botany 70	2.00	per lab. credit
Business Administration 21, 22	5.00	
Change of registration per course (see page 87)	1.00	
Chemistry 3, 4, 7, 8, 9, 10, 51, 52, 53, 56, 64, 67, 71, 72, 74, 85, 86, 99, 100	8.00	
Chemistry 9A, 83, 84	4.00	
Chemistry 200 (fee per credit hour)	4.00	
Civil Engineering 41	3.00	
Civil Engineering 42, 63, 67	5.00	

	Fees
Civil Engineering 69, 74	4.00
Dairy Husbandry 1, 53, 55	5.00
Dairy Husbandry 54	10.00
Deposit, General	10.00
Deposit, Military (Elementary course students, excepting military bandsmen)	20.00
Advanced students take courses at own expense to be arranged).	
[2]Diploma (Degree or certificate)	6.00
Drawing Outfits	20 to 30.00
Education 3	1.50
Education 41	2.00
Education 68	1.50
[1]Electrical Engineering 31-32, 91, 92, 93, 94	5.00
Electrical Engineering 53, 54, 57, 58, 63, 64, 81, 82	5.00
Farm Mechanics 11, 20, 41	5.00
Farm Mechanics 32, 53	3.00
Five or less hours	2.00 per credit
Geology 11, 51, 52, 55, 56	2.00
Geology 12	3.00
Health Service	6.00
Home Economics 55, 94	15.00
Home Economics 31, 32, 57, 83, 84	8.00
Home Economics 50	5.00
Home Economics 99	12.00
Home Economics 15, 16, 18, 46, 66, 67, 95, 96	4.00
Home Economics 42, 53, 88	2.00
Home Economics 87	3.00
Library	2.50
Matriculation (new students only)	$5.00
Mechanic Arts 3, 5	5.00 per credit
Mechanic Arts 6, 11, 50	5.00
Mechanic Arts 20	7.50
Mechanic Arts 7	(To be arranged)
Mechanical Engineering 64, 65	5.00
Mechanical Engineering 80	2.50 per credit
Metallurgy 51	15.00
Metallurgy 56	2.50
Metallurgy 68, 71	5.00
Metallurgy 79, 80 (Fee according to work).	
Physical Education (Men)	1.00
Physical Education (Women)	2.50
Physics 1b, 2b, 19, 20, 57, 58, 63, 77, 78	3.00
Physics 5, 6, 103, 104	1.50 per credit
Physics 68	5.00
Physics 75, 76	6.00
Poultry 2	5.00
Poultry 8	2.00
Reexamination Fee	1.50
Special Examinations for Entrance or Advanced Standing, each	3.00
Sports (women, depending upon activity)	1.00 to 12.00

[1]Fee depends on project undertaken.

[2]If two diploma sare granted in one year, the charge will be $6 for the first and $5 for the second; if three diplomas are granted in any one year, the charge will be $6 for the first, and $5 each for the second and the third. These prices are subject to change according to prices charged to the University.

	Fees
Teacher Appointment Service	2.50, 1.50
Transcript Evaluation	2.00
*Transcript of student record	1.00
Tuition to non-Nevadans	100.00
Visitors	1.00 per hour
Zoology 2, 59	4.00
Zoology 60, 62	2.00
Zoology 1, 22, 52, 64	3.00
Zoology 57–58	5.00
Zoology 91, 94, 201 (fee determined by type of work).	
Zoology 9, 11	6.00

Students should be prepared to pay any of the above charges due to the University at registration time.

Rebates

A rebate of two-thirds of all *laboratory fees, room rent,* and *nonresident tuition* will be made if a student withdraws before the end of the third week in a semester; a rebate of one-half of these charges will be made if the withdrawal occurs between the end of the third week and the end of the eighth week, but no rebate will be allowed if withdrawal follows the end of the eighth week.

The University Health Service

With the exception of graduate students and of students registered in five, or fewer, hours, all students are charged a Health Service Fee of $6 per semester. The funds obtained from this fee are used to provide an enlarged health service in accordance with the general practice of other colleges and in line with the recommendations of The American Student Health Association. Students paying the fee are entitled to the following privileges and subject to the restrictions imposed by them:

1. A thorough medical and physical examination at the time of entrance with such subsequent examinations and check-ups as may seem desirable in order to ensure the individual's physical fitness for the scholastic and athletic program which the student would like to undertake.

2. Any student found on such examination to be suffering from some chronic or handicapping ailment which makes it unlikely that he can effectively carry on his studies, will be advised accordingly and may be required to limit his activities.

3. Any student found to be a carrier of an infectious disease of such a nature as to make him a menace to the general health

*When two or more transcripts of record are asked for at the same time, each additional transcript will be 50 cents. Request for transcript or transcripts MUST BE accompanied by the stipulated fee. No student may be graduated or be furnished with a transcript of record unless and until all accounts with the University have been fully paid.

of the campus may be required to discontinue his work at the University.

4. Standard immunity tests for certain infectious diseases may be given, and when practicable and desirable, susceptible individuals may be immunized.

5. Any student who refuses to comply with any health regulation established by the State or local boards of health or by the University administration may be denied the privilege of registering or continuing work in the University.

6. Free daily consultation periods with the college physicians and nurses will be provided for all students who wish to consult about health matters. The chief object of these consultations is the detection of illness before it becomes serious. Students are urged to take advantage of it. The privilege should, however, not be abused by expecting unreasonable services at unreasonable times.

7. *Injuries or Illnesses Incurred On the Campus.* A student injured or taken ill while on the campus is entitled to the following benefits without additional charges: (a) Necessary emergency attention; (b) All laboratory examinations, X-rays, prescriptions, and medicines which may be required by the University physician in the course of the treatment in the infirmary; (c) use of the infirmary for a period not exceeding two weeks in any semester, including meals, treatment, visits of University physician, and general nursing.

NOTE: The term "campus" as used in this and succeeding paragraphs is hereby defined as the geographic limits of the campus proper, and all fraternities and sororities or other living quarters under supervision of University authorities and devoted exclusively to housing University students.

8. *Injuries or Illnesses Incurred Off the Campus.* A student injured or taken ill off the campus is subject to the following regulations: (a) All calls for medical or nursing service, whether provided by members of the regular infirmary staff or by other doctors and nurses, must be paid for by the individuals requesting such service; (b) a student injured or taken ill off the campus must pay all expenses of transportation to the campus, and must pay for all other expenses incurred off the campus by or through such illness or injury; (c) a student injured or taken ill off the campus may use the University Infirmary, provided that the student in question and his attending physician agree to rest convalescent care in the hands of the University physician and nurse, and provided he pay for all meals, laboratory examinations, X-rays, prescriptions, and medicines for the entire period of hospitalization.

9. After a period of two weeks hospitalization in any one

semester, regardless of where the injury or illness occurred, the student will be charged an additional $2 per day for such extended period.

10. Requests for consultation periods with the University physician at times other than regular consultation periods at the infirmary must be paid for by the individual requesting it. A student may be hospitalized in the infirmary only upon the recommendation of the University physician acting in his capacity as such.

11. The Student Health Association will not be responsible, financially or otherwise, for the treatment and care of injuries incurred by a student participating in intercollegiate athletics, either in training or in competition, except as may be provided either in training or in competition, except for the benefits which are provided for all other students. Payments by the Health Association for X-rays for athletic injuries may not exceed $20 per semester for any individual. All X-rays to be paid for by the Health Association must be ordered by the University Physician. Any insurance compensation recovered from the State Insurance Fund for athletes shall be prorated between the Health Association and the Board of Athletic Control, according to expenditures for the injury for which the payment is received.

12. When an operation is advised or deemed necessary the student must make his own arrangements and assume the responsibility for the payment of all surgical, nursing, and hospital costs connected therewith.

13. Certain injuries and illnesses may be deemed by the University physician to be of such a nature or degree of severity that they cannot be cared for adequately at the University Infirmary. In such cases the student will be so advised, and the student will make his own arrangements for care elsewhere at his own expense.

14. Neither the University nor the Student Health Association will assume any responsibility for the payment of hospital or other medical expenses incurred on or off the campus, unless such expense is expressly authorized by the University Health Committee. In certain instances of unusually heavy medical expenses, and when student health funds make it possible, the Student Health Committee, solely at its own discretion, may provide some financial relief to a student.

15. The failure to make use of the health services offered will not be accepted as a reason for exemption from the payment of the health service fee or for refunds therefrom in any semester.

Social Life and Recreation

Student life at the University of Nevada is lively, and provides ample opportunity for recreation. The University is situated in

a small city which is mainly a resort community; nearby are the high Sierras, with recreational opportunities the year around. Associated with the University are a variety of professional, semi-professional, and social organizations which provide almost any sort of social diversion that the student may wish and can afford. For a list of these groups, see *Organizations* in the index.

Policy of the University Toward Students

In the government of the University the largest liberty consistent with good work, good order, and good character is given the students. Their habits of life are expected to be such as to promote daily cultivation of high moral character. They are expected in all their relations to each other and to the University to observe the usages of good society without requiring special regulations for that purpose. They are expected to be punctual and regular in their attendance upon all University exercises. The State provides its bounty for the earnest and industrious student. The indolent or the unworthy will not be retained in the University. Young men and young women who do not intend to give themselves up to the very highest demand of university life are advised to remain at home or to go elsewhere.

Official Notices

Students should watch the bulletin-board for notices. AN OFFICIAL NOTICE PROPERLY POSTED IS DEEMED SUFFICIENT INFORMATION TO ALL STUDENTS.

Student Self-Government

Students at the University of Nevada enjoy an unusual degree of self-government, in which they gain valuable experience for democratic citizenship. Student affairs generally are in control of The Associated Students of the University of Nevada (A. S. U. N.), which delegates a part of its authority to the Associated Women Students (A. W. S.). This organization functions through a Senate, through committees appointed by it with the cooperation of the University administration, and through officers elected by the student body under its supervision. Among the more important committees through which the Senate functions are the Finance Control Committee, the Board of Athletic Control, and the Publications Board. Dormitories have their own legislative and disciplinary organizations.

The political activity of the student body is highly democratic. Anyone who fulfills the eligibility rules for students in good standing may aspire to any office in the gift of the student body, and young men and women from all walks of life do rise to

positions of considerable authority and responsibility. The constitution and bylaws of A. S. U. N., A. W. S., Pan-Hellenic Council, and the Interfraternity Council of the University of Nevada are printed in the *Student Handbook,* which is available at a nominal sum on the campus, or by addressing A. S. U. N.

Physical Education and Athletics

Required Physical Education

Every student who is a candidate for graduation from the University will be required to complete the prescribed two-year basic course of physical education unless excused therefrom by the Dean of the College concerned.

Men

The purpose of this department is to assist the men of the University to live to the best advantage, and so to aid them in the formation of hygienic habits that during their stay at the University they may make profitable physical preparation for life. There is urgent necessity that each student should have an intelligent appreciation of the means requisite for the preservation of his health, in order that he may be able to formulate wisely his own policy of health control. Credit counting toward the college degree is given. The individual's grade is largely based on attendance, punctuality, earnestness, and application, but practical tests are also given.

Each student on entrance to this department is given a physical examination in order that his work may be directed to meet his individual requirements. Members of squads out for varsity teams, reporting regularly, are excused from the practical work during the regular season of that sport, and are entitled to full credit in that portion of their work.

Each student must provide himself with a regulation uniform, which should not be procured until after arrival at the University.

A locker-and-laundry fee of $1 is charged each semester.

Women

The purpose of this department is three-fold: First, to develop skills which will make possible pleasurable participation in recreational activities; second, to overcome remediable physical defects; third, to give the student who is interested in this field a scientific background upon which to base further study in physical education, and enough material drawn from current practices in physical education to qualify her to direct intelligently recreational activities in the elementary and high schools.

All women in the University are given opportunity to engage

in leisure time activities through the Women's Recreation Association, a student organization administered by students. The activities sponsored by this organization are: Archery, badminton, basketball, bowling, dancing, equitation, golf, hiking, hockey, riflery, softball, swimming, tennis, etc. The Women's Recreation Association sponsors interclass competition is as many activities as possible.

Upon entering, and at the beginning of each year, physical examinations are given in order to determine individual needs. As far as possible the work of the department is adapted to these needs.

A fee of $2.50 per semester is charged for locker, laundry, and all equipment needed, excepting shoes and socks which are provided by the student. Bowling, golf, riding and swimming carry fees varying from six dollars to twelve dollars, depending upon conditions prevalent during the current year.

Athletics

Intercollegiate athletics is under the jurisdiction of the Board of Athletic Control, composed of five members chosen from the faculty, the student body, and the alumni.

Excellent facilities are provided on the Mackay Athletic Field for all branches of athletics. American football, baseball, track, basket ball, and tennis are the sports of special prominence at present. The main policy of the University is to foster the spirit of honor and manliness, to prevent the development of commercialism or professionalism in athletics, and to see to it that athletic sports do not encroach upon the claims of scholarship.

To represent the University of Nevada in any athletic contest, whether in freshman or varsity sports, a student must be certified by the Faculty Athletic Committee as eligible for participation. No student on probation shall be eligible for participation in any freshman or varsity sport.

Faculty Athletic Committee

The duties of the Faculty Athletic Committee are as follows:

To certify the scholastic eligibility of intending participants in all sports, both freshman and varsity. Cases of ineligibility shall be reported both to the coaches and students concerned.

The eligibility rules are printed in the current issue of *Regulations for the Guidance of Undergraduates.*

Military Science and Tactics

1. The Reserve Officers' Training Corps units at the University are organized under authority contained in the National Defense Act. There is an Infantry unit and there is an Air

Force unit. The general object of the course of military instruction is to qualify students for positions of leadership in time of national emergency. The two years of elementary training lay the practical and theoretical foundations of general military knowledge and contain most of the subjects essential to a non-commissioned officer's rating. Elementary work in the two groups is identical. Completion of elementary courses or their equivalent is a prerequisite for enrollment in advanced courses. The advanced courses lead to reserve commissions.

2. Material pertinent to the Military Department is being written for the Catalogue in January 1947. It is based on regulations now current and on such proposed changes as seem reasonably sure of accomplishment. Many of the postwar changes are still in the planning stage. Others have received departmental approval but are still to be implemented by necessary appropriations. It is to be expected that much of the material will be revised prior to the opening of the school year 1947–1948. Inquiry regarding revised regulations should be made at time of enrollment.

3. Courses leading to a reserve commission as Second Lieutenant of Infantry:

Freshman Year (elementary), Military 1–2.
Sophomore Year (elementary), Military 3–4.
Junior Year (advanced), Military 51–52–53A.
Senior Year (advanced), Military 53–54.

When the student has satisfactorily completed this program and received the final approval of the PMS&T and the President of the University, he is eligible for appointment in the Officers' Reserve Corps, Infantry Branch, U. S. Army, and may be commissioned as soon as he has reached the age of 21 and has completed four years of college.

4. Courses leading to a reserve commission as Second Lieutenant of Air Forces:

Freshman Year (elementary), Military 1–2.
Sophomore Year (elementary), Military 3–4.
Junior Year (advanced), Military 61–62–63A.
Senior Year (advanced), Military 63–64.

When the student has satisfactorily completed this program and received the final approval of the PMS&T and the President of the University, he is eligible for appointment in the Air Reserve of the U. S. Army and may be commissioned as soon as he has reached the age of 21 and has completed four years of college. The final phase of training for a reserve commission as Second Lieutenant of Air Forces consists of basic and advanced flying instruction to be given during a period of one

year of active duty which will normally be accomplished immediately after graduation.

5. When registering in military at the University for the first time, students are required to take an examination to determine their physical and mental fitness for enrollment in the Reserve Officers' Training Corps.

6. The U. S. Government furnishes uniforms and instructional equipment. Advanced course students also receive $75 per month while at camp and commutation of rations amounting to about $20 per month for 18 months, provided this does not duplicate other allowances.

7. The arms, equipment, and uniforms issued to students for military training are the property of the United States for which the University is financially responsible. To protect the University against any charge for loss or damage to government property arising from misuse or neglect on the part of the student, a deposit of $20 will be required from each student registered in elementary military courses, with the exception of military bandsmen.

8. Every male student will be required to complete the two-year course of elementary military training unless exempted therefrom by the PMS&T.

9. The following are prohibited from enrollment and are automatically exempted by the PMS&T upon presentation of necessary evidence:

a. Aliens are prohibited by law from enrollment in any ROTC courses.

b. Those who, upon initial registration in the University, are over 26 years of age are prohibited from enrollment in elementary courses. A student over 26 years of age who is otherwise qualified may enroll in advanced courses provided completion of advanced training in the military department can be completed prior to the attainment of his thirtieth birthday.

c. Enlisted personnel of the armed forces who are in an active status.

d. Commissioned personnel of the armed forces in any status.

10. The following may be granted exemptions:

a. Those who have satisfactorily completed, at an educational institution, equivalent training under the supervision of an officer of the Army regularly detailed as PMS&T. Exemptions may cover part or all of elementary training.

b. Those who have completed equivalent training in the armed forces of the United States and have received honorable discharge therefrom. Exemptions may be based on service in the Army, Navy, Marine Corps, or Coast Guard, including all their various components. Three months of active duty is generally

accepted as the equivalent of one semester of elementary training at the University.

c. Those who are unfit for military duty. Physical examination is prerequisite to initial enrollment either in an elementary course or an advanced course.

d. Those who transfer to this University after having completed freshman and sophomore work in an educational institution which did not require military training during that period of their enrollment.

11. The University of Nevada Cadet Corps comprises all students enrolled in the Military Department. Special regulations for the Cadet Corps are published in pamphlet form and are issued to each cadet upon registration. Familiarity with these regulations and careful observance of their requirements is demanded of every member of the corps.

12. Students who have earned wartime commissions through other channels than the University of Nevada ROTC may be granted advanced credit toward graduation in any college and may offer this credit to satisfy the requirements of a minor in the College of Arts and Science. Each case will be considered separately by the Professor of Military Science and Tactics, primary consideration being given to the type of commission, scope of military education which qualified the student for his commission, and the nature of duty as a commissioned officer.

Honors and Awards for Military Excellence

Honor Graduates. Under existing Army Regulations, the University may designate certain members of the second year Advanced Course as "Honor Graduates," who may be permitted to compete for commissions in the Regular Army. The number is limited only by the qualifications outlined below. The term "Honor Graduate" applies to graduates of the University (in the current academic year) who are graduates of the Second Year Advanced Military Course in the current academic year or previous academic years, who are citizens of the United States, who have been selected by the President of the University for scholastic excellence and who have been designated as honor graduates by the Professor of Military Science and Tactics as possessing outstanding qualities of leadership, character, and aptitude for military service. They must be 21 years of age on or before the dates set for their appointments in the Regular Army. Those who are ineligible for appointment in the Regular Army in the year in which they are graduated in honor status because of nonage, will be permitted to compete for appointment with honor graduates in the first year subsequent thereto in which they attain the prescribed age. The designation as an honor graduate does not give the individual any claim or right to an appointment in the Regular Army. (Section 24e, National

Defense Act, as amended by section 7, Act of Congress dated April 3, 1939, 53 Stat. 555, Group 3, Honor Graduates.)

For the past three years the University has been canvassed by representatives of the following Federal services, usually early in the second semester, viz:

a. Regular Army, for cadetships at the United States Military Academy and the Air Corps; appointments to commissions from among the honor graduates.

b. Regular Navy, for cadetships at the United States Naval Academy.

c. Coast Guard (Treasury Department), for cadetships to the United States Coast Guard Academy.

d. By Congressmen, for cadetships to the United States Military and Naval Academies.

Governor's Medal—Sec. 69(2), Chap. 153, Statutes of Nevada, 1929 as amended by Chap. 214, Statutes of Nevada 1937, and further amended by Chap. 190, Statutes of Nevada 1945, makes provisions for the presentation annually of a medal to be known as the "Governor's Medal," to a student of the military courses of the Military Department of the University of Nevada (R. O. T. C.) "whose proficiency in military training, observance of the rules of military courtesy and intelligent attention to duty has received the approbation of the Professor of Military Science and Tactics of the institution."

In accordance with the requirements of this Act, the name of the student entitled to this award will be transmitted by the Professor of Military Science and Tactics, through the University President, to the Governor of the State, on or about April 15 each year. Presentation will be made by the Governor of Nevada on Governor's Day.

President's Trophy—A gold medal will be awarded for the season's best individual records in R. O. T. C. rifle competition.

Kerak Temple Award—The best-drilled first-year cadet will receive a gold medal. His name will be engraved on a permanent trophy which remains in the possession of the Military Department.

Reserve Officers' Association Award for Best NCO—Only second-year cadets are eligible. The winner will receive a Scabbard and Blade gold medal. His name will be engraved on a permanent trophy presented by the Reserve Officers' Association and retained in the Military Department.

Minor Sports Letters—Members of the rifle teams are eligible for these awards.

Other Medals and Prizes—For particulars as to other awards for which cadets are eligible, see current Regulations for Department of Military Science and Tactics.

UNIVERSITY REGULATIONS

Admission of Candidates for Degrees

The privileges of the University, while open to all qualified persons of good character and serious purposes, are designed primarily for those who satisfy the requirements for admission and become candidates for degrees. In order to insure some breadth of view on the part of students as well as some degree of achievement, curricula have been established in the several colleges, each intended to meet the needs of a considerable body of students. So far as is consistent with the purposes the curricula are intended to fulfill, students are left free to choose their work according to their individual needs and tastes. For most persons it is believed that the pursuit and completion of a regular curriculum is of much higher value than any unrestricted selection of courses. The University wishes, therefore, to impress upon parents and students its firm belief that, under all ordinary circumstances, students should satisfy the requirements for admission and pursue the regular curricula.

Methods of Admission

Evidence that a student has had desirable preparatory education, qualifying him for satisfactory study toward a degree, may be shown by.

(1) Examination in prescribed subjects.

(2) Certificate of graduation from an accredited high school or other preparatory school.

(3) Transfer from any university or college of recognized standing.

Admission by Examination

Examinations for admission are held at the University immediately preceding the opening of the fall semester. Application for examination should be in the hands of the Committee on Admission and Advanced Standing at least one week in advance. A fee of $3 per each subject for which such special examinations are given must be paid to the University Comptroller in advance of the examinations.

Admission by Certificate from an Accredited Preparatory School

Students desiring to enter the University should file their credentials with the Committee on Admissions as soon as possible after the close of the school in June in order that they may be

examined to determine whether they meet the University entrance requirements. Receipt of credentials will be acknowledged and an application blank for admission forwarded to the student. Failure to file credentials may cause registration to be delayed and the student to be greatly inconvenienced.

Admission by Transfer

A fee of $2 will be charged for evaluation of transcripts of record from other institutions; this fee must accompany all requests for such evaluation. In the event that the applicant later enrolls in this University, the $2 will be applied on his registration fees. The advanced standing granted on transcripts of record is valid only if the applicant enrolls within one year following the date on which the record was submitted for evaluation.

Students who are disqualified at other colleges will not be admitted during the semester immediately following their disqualification.

Students who have been graduated from a full four-year high school and have completed additional work in a normal school, college or university may receive advanced standing as stated below.

Applicants for advanced standing from universities and colleges of recognized standing will receive, upon presentation of their credentials, such credit as the Committee on Admission and Advanced Standing may deem fair. In all doubtful cases the claims will be referred to the heads of the departments. All credit for advanced standing, however, is provisional and subject to revision at the end of the first year following the enrollment of the student.

Graduates from a one-year professional course in an accredited normal school are allowed one year's credit on advanced standing in the College of Arts and Science only.

Graduates of a two-year normal school or junior college will in general be given two years' credit on advanced standing in the College of Arts and Science only. Such students, however, will be expected to fulfill all requirements for graduation, including the special requirements outlined for the freshman and sophomore years with the understanding that education may be used by normal school graduates to satisfy the social science requirement.

Students transferring from a recognized university, college, junior college, or normal school with junior standing may be excused by proper authority from the requirements prescribed by this University for military training and physical education, but must meet all other requirements for graduation prescribed by their college (agriculture, arts and science, or engineering)

and must have no entrance deficiencies; for a definition of entrance deficiencies, see *Specific Subject Requirements,* below.

An applicant from a junior college or other institution of collegiate standing must submit evidence that he has fulfilled our entrance requirements for regular freshman standing, or that he has either: (a) at least 60 semester credits with a grade average of C or better, and acceptable for advanced standing in the college or school to which admission is sought; or (b) not less than 15 semester credits with a grade average of B or better, and acceptable for advanced standing in the college or school to which admission is sought.

REQUIREMENTS FOR ADMISSION TO REGULAR STANDING

1. FIFTEEN HIGH SCHOOL UNITS. Applicants for admission to regular standing in the University of Nevada must present satisfactory evidence of high school graduation and of having completed fifteen units of acceptable high school or preparatory work. A "unit" represents a year's study in any subject in a secondary school. Two periods of laboratory work, or shop work, count as the equivalent of one recitation.

a. *Limited Freshmen.* High school graduates who have 13 or more but less than 15 acceptable high school units may be admitted as limited freshmen. Courses to remove these deficiencies shall take precedence over all other subjects in the University. Requirements pertaining to grades for these students are the same as for regular students.

b. *Restricted Freshmen.* A restricted freshman is defined as one who presents 15 acceptable units but who is deficient in no more than 2 of the required units as specified below under *specific subject requirements.*

c. *Special Students.* Students who cannot present 13 acceptable high school units may register as special students if they can meet the other requirements for special students. See *Special Students,* Index.

2. ACCEPTABLE UNITS. Subjects acceptable for admission include the subjects numbered 1–33. See *Subjects Accredited for Admission* in the Index.

a. *Ten Academic Units.* Of the fifteen units required for admission at least ten must include subjects numbered from 1–20, inclusive. See *Subjects Accredited for Admission* in the Index.

3. QUALITY UNITS. Of the acceptable units presented by applicants who are nonresidents of Nevada for admission to first-year standing, six units must carry grades of 80 percent or better, and 4 of the 6 must be in subjects 1–20, inclusive. See *Subjects Accredited for Admission* in the Index.

4. SPECIFIC SUBJECT REQUIREMENTS. Of the fifteen units required for admission to regular standing each college makes its own specific subject requirements, as follows:

The College of Arts and Science

English, 3 units
Mathematics, 2 units—algebra and/or goemetry

The College of Engineering[1]

English, 3 units
History, 1 unit
Plane geometry, 1 unit
Algebra, 1½ units
Solid geometry or trigonometry, ½ unit
Chemistry or physics, 1 unit

The College of Agriculture

English, 3 units
Social Science, 1 or 2 units
Mathematics, 2 units—Algebra and/or geometry.
Natural Science, 1 or 2 units

5. REMOVING ENTRANCE DEFICIENCIES—

a. *Time requirement.* All students, except special students, who may be admitted to the University with entrance deficiencies must remove these deficiencies before their second year of residence.

b. *Method.* Entrance deficiencies may be removed by either of the following methods:

(1) College credit may be canceled at the rate of four college credits for each high school unit necessary to fulfill the requirements of the college in which the student is registered.

(2) Examinations may be taken within the first year of residence at the University in sufficient of the subjects (1–32) listed as accredited for admission to fulfill the requirements of the college in which the student is registered.

c. *Special students.* In addition to the methods described above, entrance credits will be waived for special students, who can meet the scholarship requirements set forth in the paragraph on obtaining regular status. See *Special Students* in the Index.

[1]It is recommended that the entering student present all the subjects here listed, especially that of 1½ units of algebra, otherwise it is probable that he will be graduated in five years instead of four. Consult meaning of the term "restricted" freshman, and see also mathematics 15 and mathematics A.

It is advised that the electives include 2 units of foreign language, preferably modern language. In certain meritorious cases some entrance credit, not exceeding 1 unit, may be granted for practical experience.

Subjects Accredited for Admission

		Units[1]
1.	English (a)	1
	English (b)	1
	English (c)	1
	English (d)	1
	English (e) Public Speaking	1
	English (f) Journalism	1
2.	French (a)	1
	French (b)	1
	French (c)	1
	French (d)	1
3.	German (a)	1
	German (b)	1
	German (c)	1
	German (d)	1
4.	Spanish (a)	1
	Spanish (b)	1
	Spanish (c)	1
	Spanish (d)	1
5.	Other Languages	
6.	World History (a)	1
	Medieval and Modern History (b)	1
	American History (c)	1
	Civics (d)	½ or 1
7.	Economics	1
8.	Sociology	1
9.	Commercial Law	½ or 1
10.	Commercial Geography	½ or 1
11–12.	Others	
13.	Algebra (a)	1
	Plane Geometry (b)	1
	Advanced Algebra (c)	½
	Solid Geometry (d)	½
	Trigonometry (e)	½
14.	General Science	1
15.	Physics	1
16.	Chemistry	1
17.	Physical Geography	½ or 1
18.	Botany	½ or 1
19.	Biology	½ or 1
20.	Physiology or Hygiene	1
21.	Drawing	½ to 2
22.	Music	½ to 2

[1]A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work. Two hours of laboratory work are regarded as the equivalent of one hour of prepared work.

SUBJECTS ACCREDITED FOR ADMISSION

Subject	*Units*
23. Agriculture	½ to 4
24. Home Economics	½ to 4
25. Manual Training	½ to 3
26. Shopwork	1 to 3
27. Bookkeeping	½ to 3
28. Stenography	½ to 3
29. Typewriting	1 to 2
30. Trades and Industries	½ to 4
31. Vocational Work	1
32. Commercial Arithmetic or Applied Mathematics	½ or 1
33. R. O. T. C.	1

Additional units for subjects listed above or additional subjects will be accepted if approved by the Committee on Admission and Advanced Standing.

ADMISSION OF PERSONS WHO ARE NOT CANDIDATES FOR DEGREES

1. SPECIAL STUDENTS. a. *Requirements.* Persons of serious purpose and good character who are twenty-one years of age or more and who wish to enroll for study at the University but find that their credentials do not satisfy the entrance requirements, may, at the discretion of the Committee on Admission, be admitted as special students. They will be required to submit a program of the work which they wish to undertake at the University and to have the program approved by the dean of the college in which registration is sought. This approval will largely depend on the evidence which the student submits as to his ability to pursue successfully the desired course of study. If the applicant has attended other colleges or universities previous to making application here, an official transcript of such work must be submitted before the application will be considered.

b. *Registration.* Special students will be expected usually to register in not fewer than ten hours in courses of elementary character which may be counted for admission. They will be permitted to register in advanced courses only upon the approval of their Dean and the head of the department concerned. Special students are subject to all the rules relating to registration and scholarship.

c. *Obtaining Regular Status.* Special students may obtain regular status by removing entrance deficiencies. See *Removing Entrance Deficiencies,* Index.

A special student who has successfully carried the regular prescribed work of his college during four semesters and who has made an average of 2 grade points in all the hours for which he has been registered, except cases of W, and has no unremoved

conditions or failures, will be allowed to matriculate as a regular sophomore student.

If he has made an average of 2.5 grade points for every hour for which he has been registered, except cases of W, and has no unremoved conditions or failures, he will be allowed to matriculate as a regular junior student.

2. VISITORS. With the consent of the Dean and the instructors concerned, regular visitors may be enrolled as such during the regular registration period. They shall be governed by the regular University rules and are due to pay a visitor's fee. Under no circumstances will visitors be allowed to do laboratory work, engage in class discussion, take the time of the instructor from regular classwork, or receive credit toward a degree.

REGULATIONS FOR REGISTRATION

1. REGISTRATION PROCEDURE. In accordance with such specific regulations governing the procedure of registration as the Administrative Council may prescribe, the student must (a) secure his registration coupons from the Registrar, (b) secure the approval of the department or the professor for each course in which he wishes to enroll, (c) if a man, adjust his classification for military training with the Professor of Military Science and Tactics; (d) make out class cards, (e) secure the approval of the adviser and the dean of his college, (f) present the registration card to the Registrar for computation of fees to be paid, and (g) present the card to the Comptroller and pay the fees. The Comptroller will retain the card and file it with the Registrar.

2. THE REGISTRATION PERIOD—

a. *Registration Days.* Preceding the beginning of instruction at the opening of each semester, a registration period is announced. For this time see the University calendar.

b. *Completing Registration.* Each student shall complete his registration by 4:30 p. m. of the day his registration card is issued.

c. *Late Registration.* All registration must be completed by the end of the second week of the semester except in special cases approved by the Dean of the College concerned.

3. FEES FOR DELAYS IN REGISTRATION—

a. *Delay in Completing Registration.* Each student who fails to complete his registration by 4:30 p. m. of the day his registration card is issued shall pay 75 cents for each day or fraction of a day thereafter until his registration is completed.

b. *Late Registration.* A fee of $5 shall be charged anyone registering after the week including the enrollment days.

4. CHANGES IN REGISTRATION—

a. *Adding a Course.* After the registration coupon has been filed with the Registrar, a student may add a subject in accordance with the rules. No subject may be added after the close of registration in a semester, except in special cases approved by the Dean of the College concerned.

To add a subject a student must secure the proper card from the Registrar, the signature of the professor of the course he wishes to add, and the approval of his adviser and the dean of his college. He must then file the card with the Registrar.

b. *Withdrawal from a Course.* After the registration card has been filed with the Registrar, a student may withdraw from a course provided the withdrawal meets with the approval of the instructor concerned, the adviser, and of the dean of the college. If he withdraws during the first six weeks of the semester, W will be recorded; if he withdraws after the first six weeks, W will be recorded when the student is passing, F when the student is not passing. The symbol W is not a scholarship grade and shall not be used in any manner in determining a student's scholarship record.

A student who wishes to withdraw from any course shall first secure from the Registrar a withdrawal slip. He shall take this to the instructor in the course in question for his recommendation, and to the adviser. He will then report to the dean of his college, who may grant a withdrawal from the class. The withdrawal slip must be filed by the student with the Registrar, who shall notify the instructors concerned. The student is not officially withdrawn from the class until the instructor has received notice from the Registrar. The date of withdrawal shall be the date on which the slip is filed with the Registrar.

c. *Withdrawal from the University.* Any student wishing to withdraw from the University during the first six weeks of the semester may do so, with the withdrawal to be recorded as W. After the sixth week of the semester a student who desires to withdraw from the University will report to each instructor for his grade. If the instructor reports the student as passing, a record of W will be recorded. If the instructor reports the student as not passing, a record of WF will be recorded. The record of WF shall not be used in computing grade points for graduation. In case the student receives records of WF in more than one third of his work, he will be subject to probation or suspension.

5. FEES FOR CHANGES IN REGISTRATION. After the registration coupon has been filed with the Registrar, a student who adds a subject must pay a fee of $1 for each course added. The fee

will be omitted only when the change is caused by faculty action or at the request of the dean of the college concerned.

6. REBATES. A rebate of two-thirds of all *laboratory fees, room rent,* and *nonresident tuition* will be made if a student withdraws before the end of the third week in a semester; a rebate of one-half of these charges will be made if the withdrawal occurs between the end of the third week and the end of the eighth week, but no rebate will be allowed if withdrawal follows the end of the eighth week.

7. PRECEDENCE OF CERTAIN COURSES—

a. *Required Courses.* In registering, all students must give precedence to required courses in regular sequence; an elective course may not be retained to the exclusion of a required course. In no case may a required course be deferred beyond one year.

b. *Entrance Deficiencies.* All but special students are required to remove entrance deficiencies before their second year of residence or they will be placed on probation. A freshman who fails to remove his entrance deficiencies may register on probation as a sophomore provided he includes in his schedule courses which will serve to cancel the deficiencies. The schedule of a student enrolled in courses for a second time in order to remove entrance deficiencies shall not exceed a total of 15 hours.

c. *Failed Courses.* Any required subject in which a student has failed takes precedence over all other subjects in the arrangement of his program. Such a failed subject must be repeated in class as soon as the study is repeated in the University program.

8. REQUIRED COURSES. Each student in registering must observe the specific course requirements in his particular college. He must also observe the following general University requirements and register for them in the specified year:

a. *English 1–2.* All students must register for English 1 and 2 in their freshman year.

b. *Physical Education.* Every student who is a candidate for graduation from the University will be required to complete the prescribed two-year (basic) course of physical education unless excused therefrom by proper authority. This basic course is scheduled for both semesters of the freshman and sophomore years.

c. *Military for Men.* Every male student who is a candidate for graduation will be required to complete the prescribed two-year (elementary) course of military training unless excused therefrom by proper authority. This elementary course is scheduled for both semesters of the freshman and sophomore years.

d. *Political Science 79–80.* The State law of Nevada provides that no student shall receive a diploma of graduation or a teacher's certificate without previously having passed a satisfactory examination upon the Constitutions of the United States and of Nevada. Under this provision it is necessary for students to take at an appropriate time Political Science 79 and 80.

9. NUMBER OF HOURS TO BE REGISTERED—

Regular Students. Except in special cases each student is expected to register for the number of hours regularly prescribed by his college for the course which he has elected.

In the College of Engineering the regular prescribed course consists of 18 hours each semester; in the College of Agriculture, from 15½ to 17½ hours each semester; in the College of Arts and Science, 15½ hours each semester in the freshman and sophomore years, and 16 hours each semester in the junior and senior years.

10. REGISTERING FOR A REDUCED NUMBER OF HOURS—

a. *Permissive Reduction.* Any student may at any time enroll in as low as three credits less than his course requires, but to take less than this amount the student must have the dean's permission.

b. *Compulsory Reduction.* Under the following conditions the student will not be permitted to register for the regular number of hours prescribed:

(1) In case a student failed to pass in some of his work during the previous semester, the dean may restrict his registration to fewer hours than his course regularly requires.

(2) A student on probation shall not be allowed to register for more than 80 percent of the regular number of hours of his prescribed course.

(3) A student who begins to register after the regular registration days shall not be permitted to enroll in the number of hours to which he would otherwise be regularly entitled; for every week or fraction thereof of delay in registering one hour will be deducted.

(4) The registration of a student enrolled for the second time in courses in order to remove entrance deficiences shall not be permitted to exceed a total of 15 hours.

11. EXTRA HOURS—

a. In case a student during his previous semester received no condition or failure and received an average of 3 grade points for each hour for which he was registered, excepting cases of W, he may be permitted, at the discretion of the dean, to enroll in a maximum of three hours above that specified for his course.

b. The deans are allowed to grant a student an additional hour beyond the limit specified in the rules.

c. No freshman during the first semester shall be allowed to enroll in more credits than his regular course requires.

12. Registration in Courses Numbered 50 and Above. No course with the number 50 or above will be open to freshmen or sophomores without the written recommendation of the chairman of the department and the approval of the dean of the college.

13. Registration for New Students—

a. *Orientation.* Registration in the fall semester for all new students includes a program of orientation during the first week.

b. All new students must be photographed and must take the physical examinations and mental tests scheduled during the first week.

14. Classification of Students. Two classes of students seeking college credit are recognized—regular and special:

a. *A Regular Student* is one who has satisfied the requirements for admission to a college and is pursuing a curriculum leading to a diploma or degree.

(1) *Freshmen.* Limited freshmen are those high school graduates who can present 13 or more but less than 15 acceptable high school units. Restricted freshmen are those presenting 15 acceptable units, but are deficient in not more than 2 required units.

(2) *Sophomores, Juniors, Seniors.* A regular student is classified by his dean as a sophomore, junior, or senior, when he has completed within 3 hours of all the required credits and specific subjects in his course.

b. *A Special Student* is one who, though unable to satisfy the requirements for admission to the college in which he wishes to study, is permitted to register in courses for which he has satisfactory preparation.

15. Intramural Transfers—

At the beginning of any semester, with the approval of the deans concerned, a student may change his registration from one college to another. In so transferring, the student shall satisfy the admission requirements of the college to which he transfers, effective at the time he is admitted to the University, and he shall satisfy the course of study of the college to which he transfers, effective at the time the transfer is made, the details of the transfer to be handled by the Registrar and the deans concerned.

16. Honorable Dismissal From the University. Upon the request of a student in good standing, the Registrar will issue

a letter of honorable dismissal. If the student desires to enter another university, a copy of his or her university credentials. including entrance, and stating thereon whether or not this University recommends such transferee, will accompany the letter. A fee of $1 must be paid for each transcript of record furnished to students by the University Registrar.

Regulations for Scholarship

1. The Grading System—

a. *Marks Used.* The grading system shall consist of four passing grades, of condition, of incomplete, and of failure. The passing grades shall be designated in descending order of excellence as A, B, C, and D; a condition shall be marked E, an incomplete I, and a failure F. W indicates withdrawal without failure; WF indicates withdrawal from the University with failure.

b. *Definition of Marks.* A, *excellent,* is that quality of work which may generally be expected from approximately the best ten students out of one hundred in any given course or subject; B, *good,* that quality produced by the next best twenty students; C, *average,* the quality produced by the middle forty students; D, *passing,* the quality produced by the twenty students just below the middle forty. E for *condition* is a temporary mark and is to be used when the quality of the work is doubtful and further opportunity is desired for the student to demonstrate satisfactory achievement. I is used when a student has for acceptable reasons been unable to complete the required work by the close of the semester. Whenever an I is given, the instructor must state upon the final report sheet the reason why the student was unable to complete the work. WF is used only when a student withdraws from the University and is failing in one or more courses.

2. Grade Points. Each credit earned with a grade of A carries four grade points; a grade of B, three grade points; a grade of C, two grade points; a grade of D, one grade point; a grade of F, no grade points.

3. Determination of Final Grades. Each instructor will determine the final grade[1] of his students by any method he may consider best adapted to his course.

4. Final Examinations. Final examinations shall be held at the end of each semester in all undergraduate courses except courses in which an examination is not practicable or appropriate.

[1]Final grades in any semester are not available to a student who is in arrears in his financial obligations to the University. As soon as the financial obligation is discharged, the grades become available.

If a final examination is not given the class shall meet during the examination period and shall continue for at least one hour.

All students are required to take the final examinations in all their courses in which examinations are given, or attend the class meeting held in place thereof. In case of emergency when it may prove an unreasonable hardship to a student to take a final examination at the scheduled time, the student, upon written petition to the Administrative Council, may be granted such dispensation as the Council may determine.

5. SCHOLARSHIP AVERAGE. In determining scholarship average the sum of the grade points received for each hour for which the student is registered, excepting cases of W, shall be divided by the total number of hours for which the student is registered. In determining averages, E and I shall be counted as carrying no grade points.

The symbol W is not a scholarship grade and shall not be used in any manner in determining a student's scholarship record.

6. CHANGING A PASSING GRADE. Except when a clerical error has been made, the passing grade of a student may not be changed after the class records have been filed with the Registrar, unless the subject has been repeated in a regular college class.

A course may be repeated for the purpose of changing the grade received but no additional credit can be gained by repeating a course.

7. REMOVING A CONDITION—

a. *Students Eligible.* No disqualified student may be issued a permit to remove a condition. A student not in residence may receive a permit only by vote of the faculty or permission of the President.

b. *Procedure.* A condition may be removed by satisfying the requirements of the department. A student who desires to remove a term condition must present to the instructor by whom the examination is to be given, or under whom the deficient work is to be completed, a statement from the Registrar saying that he is eligible and that the fee of $1.50 has been paid.

c. *Fee for Removing.* Application for the removal of a condition will not be accepted by the Registrar until a fee of $1.50 has been paid.

d. *Time for Removing.* A condition may be removed only during the next semester of residence after the condition is incurred. If a condition is not removed by the end of the first semester of residence thereafter, the Registrar shall record a grade of F.

The individual instructor may set the date on which the condition may be removed.

e. *Grade After Removing Condition.* Upon the removal of a condition, the grade of D shall be given.

8. Removing an Incomplete. Incomplete work must be completed by the close of the student's first semester of residence after the I was incurred; when so completed, the student shall receive whatever grade the instructor deems proper; if not so completed, the I becomes an F.

9. Removing a Failure—

a. *Procedure.* A failure in a required subject shall be removed by repeating the subject in class. This must be done as soon as the study is repeated in the University program; and any required subject in which a student has failed takes precedence over all other subjects in the arrangement of his program.

b. *Failure in Elective Courses.* Failures and conditions in elective courses are not required to be made up.

10. Probation—

a. *Conditions Resulting in Probation—*

(1) A student must be passing in at least two-thirds of his work or he may be placed on probation by the Administrative Council, unless he can show that his unsatisfactory record is due to reasons for which he is not personally responsible.

(2) A student may be placed on probation any time his conduct warrants such action.

(3) A student who does not remove his entrance deficiencies before his second year of residence shall be placed on probation.

(4) Whenever a student fails for two consecutive semesters to earn a minimum semester average of 2.0 grade points, he may be placed on probation.

(5) While on probation, a student is subject to suspension if he does not reduce his grade-point deficiency.

b. *Penalties for Probation—*

(1) A student on probation shall not be allowed to register for more than 80 percent of the regular number of hours of his prescribed course.

(2) While on probation a student may not take part in intercollegiate debates, or dramatics, or serve on the staff of any student publication, or become a candidate for any student office. It is the duty of the Faculty Committee on Student Affairs to enforce this rule.

c. *Release from Probation.* Students placed on probation remain o nprobation until released therefrom by action of the

Administrative Council. To be removed from probation, a student must raise his scholastice average to 2.0 grade points on his entire University record.

11. SUSPENSION, EXPULSION—

a. *Scholarship*—

(1) A student not passing in at least one-half of his work may be suspended from the University, unless this unsatisfactory record is due to reasons for which he is not personally responsible.

(2) A student who is on probation at the end of each of two consecutive semesters may be suspended from the University.

(3) If the class preparation, attendance, or progress of a student toward a degree is deemed unsatisfactory, the student may be suspended from the University at any time.

b. *Deportment*—

A student may be suspended or expelled from the University by action of the appropriate committee any time his conduct warrants such action.

c. *Readmission After Suspension*—

Students who have been suspended for unsatisfactory scholarship can reenter only by application to the Administrative Council. If they are permitted to reenter, such students shall be on probation until released therefrom by the Administrative Council.

12. DISQUALIFICATIONS. A student who has twice been suspended shall not be permitted to register in this University.

13. REQUIREMENTS FOR GRADUATION—

a. *Scholarship Requirements*—

(1) Students enrolled prior to August 1940: In order to graduate, every student enrolled in the University prior to August 1940 must earn 252 grade points. Each hour of 2.5 or above earned under the marking system in operation until August 1940 shall be counted as four grade points under the new system of grading.

(2) Students entering in the fall of 1940 and thereafter: In order to graduate, every student entering the University of Nevada in the fall of 1940 and thereafter, shall have an average of 2 grade points for each hour for which he has been registered, except cases of W and WF.

b. *Credit-Hour Requirements*—

In the College of Arts and Science, 126 credits are required for graduation.

In the College of Agriculture, 126 credits are required for graduation.

In the College of Engineering, 144 credits are required for graduation in the Schools of Mechanical and Electrical Engineering; 148 credits in the Schools of Mining and Civil Engineering.

The value of a *credit is defined* as three hours of work per week for one semester (usually one class hour plus two hours of preparation).

c. *Subject Requirements.* In addition to specific subject requirements imposed by each college for its several courses, certain subjects are required by the University of all candidates for a degree. These courses as listed under Required Courses (see Index), are English 1 and 2; the two-year elementary course in military science for men, and in physical education for both men and women, and Political Science 79 and 80.

14. Mid-Semester Reports. At mid-semester instructors will report students whose grades are D, E, F, and I with a statement in each case of the reason for the low mark. When because of their low grades students are subject to probation or suspension, they will be required to meet with the Administrative Council.

15. Advanced Credits. Students who have attained knowledge in a given field by experience or by study, other than in a recognized institution of learning from which transfer credits are available, may take an examination for advanced credit.

To take an examination for advanced credit the student must present to the instructor by whom the examination is to be given a statement from the Registrar certifying that the Committee on Advanced Standing has approved the application for the examination and that the necessary fee of $3 has been paid.

Application for such advanced credit must bear the recommendation of the head of the department concerned and be accompanied by the written examination on which the recommendation is based. The amount of credit to be granted on the basis of special examination, supplemented by such laboratory work as may be required, will be determined by the Committee on Advanced Standing but will not exceed the regular work of one semester in the college in which the student is registered.

No student will be permitted to take an examination during a semester in which he has already enrolled for the maximum number of hours permitted.

16. Suspension From Class. A student may be dropped from class at any time for negligence or misconduct upon recommendation by the instructor and with the approval of the dean and of the committee concerned.

Degrees and Diplomas*

The College of Arts and Science confers upon its graduates the degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Science in Business Administration, Bachelor of Science in Chemistry or Chemical Technology.

Upon graduates of the College of Engineering are conferred degrees as follows: Graduates of the Mackay School of Mines receive the degree of Bachelor of Science in Mining Engineering, Metallurgical Engineering or Geological Engineering. Graduates of the Schools of Mechanical Engineering, of Electrical Engineering, or of Civil Engineering receive, respectively, the degree of Bachelor of Science in Mechanical Engineering, Bachelor of Science in Electrical Engineering, and Bachelor of Science in Civil Engineering.

Graduates of the College of Agriculture receive the degree of Bachelor of Science in Agriculture. Graduates of the School of Home Economics receive the degree of Bachelor of Science in Home Economics.

Combination curricula leading to the bachelor's degree in each of two schools or colleges in the University may be arranged. The minimum requirements shall be one extra year in residence and 30 credit hours of extra work. More work may be necessary if the specific requirements of the department in which the degree is sought have not been met.

A charge of $5 is made for all baccalaureate diplomas. If two diplomas are granted in any one year, the charge will be $5 for the first, and $4 for the second. The charge for a teacher's diploma, if received in addition to a baccalaureate diploma, is $1.

Advanced Degrees. For advanced and graduate degrees, see *Graduate Study* in the Index.

Diplomas

For information concerning teachers' diplomas, see The School of Education.

Residence Requirement

Students spending less than three years at the University must be in residence the last year to be eligible for graduation; students who have spent three years or more here may be allowed to complete a maximum of eight units *in absentia* after their last registration here. *Premedical, prelegal, and prenursing students are not included in this rule.*

If a student is in residence at the University for one year only, that year's work must be done in the college from which the

*No student may be graduated or be furnished with a transcript of record unless and until all accounts with the University have been fully paid.

degree is expected. No college faculty in the University will recommend a student for the bachelor's degree unless he has completed, in residence, credit equivalent to the requirements for one full year's work in the college in which he expects to receive the degree. Attendance at the Summer Sessions is construed as resident study, three summer sessions at the University of Nevada being considered the equivalent of one semester's residence.

Undergraduate Theses

Whenever a thesis is required for an undergraduate degree in any department, school, or college of the University, and such thesis is to be filed in the University Library, the format of the thesis must conform to the requirements determined by the Graduate Committee for master's theses, in such matters as general style and mechanics, size and quality of paper, and type of binding.

MISCELLANEOUS INFORMATION

In this section of the catalogue is brought together various information which may be of interest for reference if printed in some detail, but which seems not suited to inclusion in this form in the earlier portions of the book. The section provides information concerning publications, lectures, organizations, foundations, prizes, awards, scholarships, and gifts to the University; for page references, see the Index under these titles.

Public Lectures

The University endeavors to provide its students with opportunity to hear important figures of the day and to become acquainted with music and art. This endeavor is furthered by civic organizations in Reno, which make available various lecture and concert series, most of which are open to university students at reduced rates. The University presents lecturers of eminence, either through regular Assemblies, or through the agency of various organizations associated with the University. Of special note are the Fulton Lectures, provided through the Robert Lardin Fulton Lecture Foundation.

Among the lectures presented during 1946–1947 are the following:

Commencement, 1946

June 8—Phi Kappa Phi Address, "Our American Culture," by the Reverend Bernard N. Lovgren, Canon, Grace Cathedral of San Francisco.

June 9—Baccalaureate Address, "The American Way," by the Reverend Bernard N. Lovgren, Canon, Grace Cathedral of San Francisco.

June 10—Commencement Address, "Lessons of World War II, Valid for the World Today," by Rear Admiral Joseph R. Redman of the U. S. Navy, Lieutenant General O. W. Griswold of the U. S. Army, and Rear Admiral James Fife of the U. S. Navy.

Public Lectures and Assemblies

February 22—"Austria and Her Neighbors," and "British Policies Today," by Donald Grant, British lecturer, sponsored by the Institute of International Education, under joint auspices of Phi Kappa Phi and Assembly Committee.

March 15—"The England We Have Known," illustrated lecture by Philip Noble.

March 19—"The Diagnosis and Early Detection of Cancer," by Dr. Moreton J. Thorpe of Reno, under the auspices of the Sigma Xi Club.

May 10—"Oxford University and the Rhodes Scholarships," by President John O. Moseley, of the University of Nevada.

December 3 — "World Government," by Colgate Prentice, national president of Student Federalists.

January 8—"What Kind of An America Tomorrow," by Jacob Allen, of the Chamber of Commerce of the United States.

January 14—"The Quota-Force Plan for World Government," by Mr. and Mrs. Ely Culbertson, authors and lecturers on world affairs.

February 15—"Scandinavian and American Democracy," by Dr. Henry Goddard Leach, of the American-Scandinavian Foundation.

March 3—"Fifty Years of Atomic Physics," by Dr. Henry D. Smyth, Princeton University physicist.

March 7—"Glimpses of Other Worlds," by Dr. Arthur Harding, astronomer and former president of the University of Arkansas.

March 21—"The United Nations and You," a Robert Lardin Fulton lecture for Phi Kappa Phi assembly, by Mrs. Ruth Bryan Owen Rohde.

University Publications

A variety of publications carry the name of the University, some because they are published directly by the University for organizational purposes or as a service to the State and the public, some because they are published by research bureaus more or less intimately associated with the University, some because they are the official publications of University students. Student publications are under the general supervision of the A. S. U. N.

Other University publications are coordinated through the Faculty Publications Committee, which undertakes to assure the administration that all publications are worthy the name of the University. The Research Committee grants aid in research leading to publication, and in some cases supervises publication for the University. In addition, many individual faculty members are engaged in publication, submitting their work to commercial publishers. A brief survey of publications associated with the University follows:

Official Publications

The Bulletin—The official publication of the University, issued quarterly or oftener.

The Alumnus—The official publication of the Alumni Association.

Student Publications

The Artemisia—An annual published by The Associated Students of the University of Nevada.

The U. of N. Sagebrush—A weekly newspaper issued throughout the University year by the students of the University.

A. S. U. N. Student Handbook—The official handbook of the student body, published annually by The Associated Students of the University of Nevada.

Organizations

Life at the University of Nevada is enriched by a variety of organizations. Some of these encourage and direct the scientific, scholarly, artistic, or humanitarian interests of students and of the faculty associated with the University. Some provide honorary recognition of achievement. Others are purely social, or combine learned interests with social recreation. Brief descriptions of these organizations follow.

The Alumni Association

The Alumni Association was organized June 1, 1895, to promote union and good-fellowship among the alumni, and to advance and protect the interests of the University of Nevada. All graduates of the University are recognized as members of the Association, and former students are eligible to membership upon the graduation of the class in which they originally enrolled. Active membership is maintained by payment of the dues of the Association—$2.50 yearly. A life membership is granted for $25 if the total sum is paid within 12 months of the time payments are started. The Alumni year runs from the date of Homecoming in one year to Homecoming of the next year. The Association holds two combined business and social meetings each year, during Homecoming and Commencement.

In 1945 the policy of establishing active chapters in the principal cities of Nevada was inaugurated. The first active chapter in the State was established on November 25, 1945, at Las Vegas.

The general affairs of the Association are managed by the Executive Committee, principally by the Central Committee, the membership of which is made up of alumni living in Reno and Sparks. Members are elected by popular vote each year at the annual Homecoming banquet. An office for the Association is maintained on the campus of the University. All business matters pertaining to the Association should be addressed to: Alumni Office, University of Nevada, Reno.

Officers for 1946–1947

President, Wayne Hinckley, '27; Vice President, Louis Wiener, '37; Past President, John Chism, '34; Graduate Manager, Joe T. McDonnell, '33; Director of Alumni Office, Rex Daniels, '46.

Alumni Executive Committee

Central—

Bill Cashill, '37, Reno.
Lino DelGrande, '34, Reno.
Nevada Pedroli, '27, Reno.
Mel Hancock, '30, Reno.
John Benson, '36, Reno.
Bill Blakely, '32, Reno.
Mark Yori, '36, Reno.
Gladys MacDonnell, '34, Reno.
Bruce Thompson, '32, Reno.
George Lohse, '35, Reno.
Blythe Bulmer, '33, Reno.
Jack Walther, '31, Reno.
Bill Beemer, '34, Reno.
Myneer Walker, '41, Reno.
Sessions Wheeler, '34, Reno.
Jeanette Spatz, '38, Reno.
Mrs. Roy Bankofier, '36, Reno.
Frank McCulloch, '41, Reno.
Marvin Humphrey, '31, Reno.
Walter States, '38, Reno.
Leon Etchemendy, '42, Reno.
Charles Mapes, '42, Reno.
Rodney Boudwin, '44, Reno.
Carl Fuetch, '28, Reno.
Jack Myles, '33, Reno.

State—

Louis Peraldo, '41, Winnemucca.
Warren Monroe, '29, Elko.
Walter Wilcox, '41, Ely.
Carl Dodge, '36, Fallon.
Margorie Cavanaugh, '34, Tonopah.
Gordon Miles, '37, Boulder City.
Fred Baldini, '31, Battle Mountain.
Sam Arentz, '34, Pioche.
Emery Graunke, '37, Gardnerville.
Ken Johnson, '34, Carson City.
Eva Adams, '28, Washington, D. C.
Thor Smith, '27, San Francisco.
Ed Montgomery, '34, San Francisco.
Robert Leighton, '38, Lovelock.
Leslie Harrison, '25, Hawaii.
Catharine Huntley, '20, Los Angeles.
Joseph Kievet, '40, Carson City.
Max Allen, '28, New York.

Chapter Heads

Las Vegas—Louis Wiener, '37.
Elko—Warren Monroe, '29.

Southern California—Earle Holmes, '32.
Washington, D. C.—Edward N. Usnick, '32.
Winnemucca—William Friel, '46.

American Association of University Professors

The Nevada Chapter of the American Association of University Professors meets informally seven or eight times during the University year to discuss questions of interest to the profession of university teaching and research. The objects of the association as defined in its constitution are: "To facilitate a more effective cooperation among teachers and investigators in universities and colleges, and in professional schools of similar grade, for the promotion of the interests of higher education and research, and in general to increase the usefulness and advance the standards and ideals of the profession."

For the profession of university and college teaching and research, the position and functions of the association are analogous to those of the American Bar Association and the American Medical Association in their respective fields.

The Associated Students

The student body is organized into an association called "The Associated Students of the University of Nevada." Through this association the students handle all matters relating to the student body as a whole. The officers of this association are elected by popular vote. By the payment of the student fee each semester a student receives the A. S. U. N. card which entitles him to a vote in the association and admission to all home varsity games, contests, or events under the University's management, and the subscriptions to the *Sagebrush* and the *Artemisia* and to the payment of his class dues.

The Associated Women Students

The Associated Women Students is an organization made up of all the women students registered at the institution. Its purpose is to bring all the women together in order to obtain more effective cooperation. The dues are 50 cents per semester, which is deducted from the amount paid into the A. S. U. N. treasury. The organization gives a $25 scholarship each year to the woman student attaining the highest average grade for the year and who receives no other scholarship.

The Astronomical Society of Nevada

The Astronomical Society of Nevada is an organization for all residents of Nevada interested in popular astronomy. The society holds monthly meetings on the campus with discussions by members, occasional addresses by prominent astronomers, and motion

pictures on astronomical topics. One of the aims of the society is to build up the astronomical section of the University Library. (Founded in March 1935.)

The Faculty Club

The Faculty Club is composed of the members of the staff and their wives. The meetings are held monthly in the home economics rooms of the Agriculture Building. At each meeting a lecture of general interest is given, followed by a social hour. The meetings are open to visitors.

The Humanities Group

This is an organization of faculty members actively engaged in research in language, literature, history, mathematics, philosophy, and social subjects. They meet once a month to read scholarly papers and to discuss methods of research in the humanities.

The Nevada Academy of Natural Sciences

Founded in November, 1940, the Nevada Academy of Natural Sciences has as its purpose the stimulation of interest in and study of natural sciences in Nevada. Membership is open to any person interested in the botany, geology, or zoology of the State. It is not limited, however, to Nevadans. Bimonthly meetings are held on the campus, at which speakers present papers, usually concerning some phase of the natural history of the State. The meetings are open to the public. The Academy publishes a monthly newsletter containing items contributed by members.

Sigma XI Club

This organization is composed of members of the Society of Sigma XI, national honorary scientific society, whose purpose is the promotion of scientific research. Regular meetings are held throughout the year for the purpose of presentation and discussion of local research projects. Although active membership is limited to local faculty members and others who are members of the national society, the aim of the Club is to stimulate and foster research throughout the University. Each year the Club sponsors a lecture by a nationally known scientist.

Honor and Honorary Societies

Alpha Epsilon Delta — An honorary premedical fraternity whose purpose is to encourage excellence in premedical work by furnishing a goal toward which the student may strive during the early semesters of the premedical career. Its purpose is to bind together similarly interested students. Membership is open to all students preparing themselves for the study of medicine,

dentistry, nursing, or closely allied professions who have completed at least the work of the freshman year with an acceptable scholastic record.

Block "N" Society—An honor society of men who have won the Block "N." Its purpose is to raise the standard of athletics and to promote good fellowship among alumni and resident members.

Blue Key—A national honorary, undergraduate, service fraternity composed of those upper classmen who have been leaders in University activities. This organization sponsors the annual Wolves' Frolic and the semiannual get-together dance at the beginning of each semester.

Chi Delta Phi—A national literary society for women, whose purpose is to form a body of representative women who, by their influence and their literary interests, will uphold the highest ideals of liberal education. Open meetings are held for all those interested in the study of literature. The Nevada chapter received its charter in 1931.

Coffin and Keys—An honor society composed of members of the faculty and men elected annually from the upper classes who are considered leaders in student life and activity.

Delta Delta Epsilon—This is an honorary musical fraternity for University band men and women which promotes and encourages better musicianship and scholarship in the band, assists in discovering new talent on the campus, sponsors loyal spirit and devotion to University events and promotes an increasing interest in University - Community music. Any student musician accepted as a permanent member of the band is eligible for election to the organization after serving one semester of apprenticeship. Honorary membership is extended to a few outstanding musicians associated with the campus who, by contributing their services, have rendered valuable service to the band.

Forensic Key—This is an organization of men and women who have earned the official student body award for intercollegiate debate or oratory. All students are eligible to compete for places on the debate squad. Those who represent the University in intercollegiate debates and oratorical contests receive the award and automatically become eligible for membership in the organization. Local chapter established in 1933.

Gothic "N" Society—An honor organization of women, election to which is based on sportsmanship, sports, participation, health habits, sophomore rank, scholarship average of C or better, participation in at least one nonathletic organization, attendance at W. A. A. meetings and practical unanimity of active members as to acceptability of candidate for election.

Kappa Tau Alpha—National fraternity honoring scholarship in journalism in institutions offering work of recognized professional standing in this field. Students are elected from the highest ten percent of the junior-senior journalism group. The Nevada chapter was established in the spring of 1936.

Masque and Dagger—The Nevada chapter of this national honorary dramatic fraternity was established to recognize students who have shown ability in dramatic work. Election to membership is based upon work done in acting and backstage.

Nu Eta Epsilon—A local honor society established at the University of Nevada in May 1923 for the purpose of encouraging higher standards of scholarship among engineering students. The qualifications for membership are the same as for the National Honor Society of Tau Beta Pi. Elections are held twice a year, and selections of eligibles are based entirely upon scholarship.

Phi Alpha Theta—A national honorary society whose purpose is to encourage excellence in history study, by furnishing a goal and stimulus for students in this field. Eligibility for election is based on completion of twelve hours or more of work in history with satisfactory scholastic average.

Phi Kappa Phi is a national honor society composed of graduate and undergraduate members of all departments in American universities and colleges. Its prime object is to emphasize scholarship in the thought of college students, to hold fast to the original purpose for which institutions of learning were founded, and to stimulate mental achievement by the prize of membership. This society elects to membership a certain number from the graduating class, on the basis of high scholarship. (Local chapter established in 1912.)

Sagens—An honorary women's service and pep organization, the purpose of which is to assist at all student body functions. Membership is limited to five upperclass women in each sorority and in the Independents.

Sagers—A local service organization, members of which are chosen from among outstanding upperclass men. Its many campus activities include that of building the Homecoming bonfire. Membership in the Sagers serves as a stepping stone to membership in Blue Key.

Scabbard and Blade—A national honorary military society founded on the basic idea that military service is an obligation of citizenship. The active membership consists of selected cadet officers of the Reserve Officers' Training Corps at various institutions. Its purposes are: To unite the Department of Military Science and Tactics of American Universities and Colleges into closer relationship; to preserve and develop the essential qualities of efficient officers; to promote good fellowship among cadet

officers; and to prepare them to take an active and influential part in the community in which they may reside and to disseminate intelligent information concerning the military requirements of our national defense. The local unit, Company C, 7th Regiment, was organized May 14, 1929.

Sigma Gamma Epsilon—A national organization of geologists, mining engineers, metallurgists, and ceramists. Upperclass students in these subjects are eligible to membership in the local chapter. Biweekly meetings are held for the discussion of problems related to these professions.

Sigma Sigma—An honor organization whose membership is elected from the students majoring in home economics on the basis of scholarship and ability shown in the field of home economics.

Sigma Sigma Kappa—An honor organization whose membership is elected from the Chemistry Club on the basis of scholarship and ability shown in the field of chemistry.

Clubs and Associations

The Aggie Club—Founded by the agricultural students in 1909 is an active organization of men students and faculty members of the college. The club meets the last Wednesday of each month to carry on business and social activities.

Artemisia and Manzanita Association—Residents of these halls are organized into a body under the name of Artemisia and Manzanita Association, with president, vice president, secretary and treasurer elected for one year. The purpose of the association is to carry on campus traditions and to develop leadership and social poise.

The Canterbury Society—The Nevada group of this nationwide organization was formed in September, 1940, for Episcopal students and their friends. The group sponsors cultural and social programs.

Cap and Scroll—A club organized for the purpose of developing the highest ideals on Nevada's campus by combining in organized form the women of the University who are leaders in student life and activity.

The Chemistry Club—In 1941 the Chemistry Club applied for and received its charter as the University of Nevada Chapter of the Student Affiliates of the American Chemical Society. All students registered for the degree Bachelor of Science in Chemistry or in Chemical Technology or who are majoring in chemistry and whose chief academic interest is in the field of chemistry are eligible for active membership. Associate membership is open to a limited number of those who are interested in chemistry, but

whose course of study does not make them eligible for active membership. The purpose of the organization is to keep its members in touch with present activities and development in the chemical field and to foster interest in the science of chemistry. From its membership, elections are made each year to the honor society, Sigma Sigma Kappa. Meetings are hold on the second Tuesday of each month.

Civil Engineering Club—Its function is to promote closer relationship between the American Society of Civil Engineers and students. Membership is open to all students in the School of Civil Engineering. Meetings, which are in the form of lecture and discussion, are held monthly.

The Crucible Club—This is a student organization of the Mackay School of Mines. The club meets once a month for addresses by visiting engineers on mining, metallurgical, and geological subjects. The Crucible Club is an affiliated student society of the American Institute of Mining and Metallurgical Engineers.

Electrical Engineering Club — The University of Nevada Branch, American Institute of Electrical Engineers, was organized in 1922. All students registered in electrical engineering are eligible to membership. Meetings are held monthly, at which time student technical papers are presented or the branch is addressed by some prominent member of the profession.

Associated Engineers—A society which includes the students of the four engineering schools. The purpose is to plan such activities as Engineer's Day and meetings which are of interest to all engineering students.

Fine Arts Club—Originated to promote interest in and appreciation of the arts among students. Exhibits of local and out-of-State artists are on display two weeks each month in the Fine Arts room in the library. Meetings are held monthly.

Fraternities—The following fraternities have chapters, the figures in parentheses giving the dates chapters were established at this University: National fraternities — Sigma Nu (1914), Sigma Alpha Epsilon (1917), Phi Sigma Kappa (1917), Alpha Tau Omega (1921), Theta Chi (1925), Lambda Chi Alpha (1929); local fraternity—Sigma Rho Delta (1942).

The Highlanders—A local organization whose membership is composed of student veterans living in the veterans' domitories at Highland Terrace. Its purpose is to promote a well rounded student life for the members through organized participation in the various activities of the campus, both social and nonsocial.

The Home Economics Club—A social and professional organization, and a member of the national organization. Open to all students in Home Economics. Meetings are held monthly.

Independents—A social organization of unaffiliated men and women students, organized for social purposes, for securing representation in student government, and to further the interests of the University. Meetings are held each Monday evening.

The Mathematics Club—An organization composed of students interested in mathematics. Meetings are held monthly at which talks are made by students or faculty members on subjects of common interest.

Mechanical Engineering Club—The University of Nevada Student Branch of the American Society of Mechanical Engineers was organized in January 1923. All students registered in mechanical engineering are eligible to membership. Meetings are held monthly to enable students to better understand the profession they have chosen. At the meetings student technical papers are presented and discussed, technical films are shown, or the branch is addressed by some prominent member of the profession. This Branch sends representatives to the annual group student meeting held each spring at one of the seven Pacific Southwest Student Branches.

Musical Organizations—Organizations for the promotion of vocal and instrumental music are heartily encouraged. The groups at present are the Campus Choral Club, the University Singers, the Reno Civic Chorus and Orchestra, the University Band and small ensembles. Membership is open to both men and women in all these groups and may be carried on the regular program for credit hours, or as a volunteer membership and considered as one of the student's outside activities. In addition to the above-named groups, there are the Campus Music Association for the promotion of music interests among the students and the Listening Hour Group, devoted to the study of classics and modern musical literature as represented in the fine library of phonograph records.

The Newman Club—A nonsecret organization open to all students of the University. Its purpose is to impart religious instruction and to promote social contact among the Catholics who are enrolled at the University. There are approximately 250 Newman Clubs already established in colleges and universities of the United States.

The Pilgrim Fellowship—A society open to all students, although organized especially for the religious and social culture of students connected with the Presbyterian and Congregational churches. It holds fellowship with like societies in State institutions throughout the United States and Canada. Meetings are held each Sunday evening at the Manse.

Sororities—The following sororities have chapters, the figures in parentheses giving the dates chapters were established at this

University: National sororities—Delta Delta Delta (1913), Pi Beta Phi (1915), Gamma Phi Beta (1921), Kappa Alpha Theta (1922).

Sundowners of the Sagebrush—The organization is composed of men who are elected to membership because they have exhibited the characteristics of good fellowship. Membership is not restricted to undergraduate students.

The University of Nevada Press Club—A professional and social organization of students in journalism and members of the staffs of the campus publications. Elections are held twice each year.

Wesley Foundation—A national organization of Methodist college students, formed on the Nevada campus in 1940. Its purpose is to bring together Methodist students, and others who are interested, for social and religious development. Meetings, which are open to all students, are held the first and third Sundays of every month.

The Women's Athletic Association—An organization which sponsors intramural athletics for women. It is a student organization administered by students. A member of the department faculty acting in an advisory capacity meets with the executive board. Meetings are conducted by the students, and no faculty members attend except by special invitation.

Y. W. C. A.—The Young Women's Christian Association has a branch organization among the students. The purpose of the association is the maintenance of high standards in all student relations, mutual helpfulness and pleasure, and the promotion of Christian ideals.

AWARDS AND SCHOLARSHIPS

Partly through provisions made by the Board of Regents and the University, and partly by benefactions from organizations and individuals, a considerable number of scholarships, awards, and other advantages are available to students. Some of these awards are in the form of medals or honors, intended to provide recognition for superior work. Others are grants in aid, intended to assist students during the course of their studies, especially students who show exceptional promise. These funds are administered through the faculty Scholarships and Prizes Committee, which is empowered to receive and consider applications. A list of foundations, scholarships, awards, and prizes, with the specifications required by each, will be found below.

University Scholarship Honors

Honorable Mention

Semester Honor Roll

A scholarship honor roll which includes the upper five percent of the undergraduate student body who have completed at least fifteen semester hours is announced by the Registrar at the end of each semester.

Senior Honor Roll

At commencement an announcement is made by the Committee on Scholarships and Prizes of those seniors who have taken an average of fifteen hours each semester with an average grade equal to or above the lower limit of the fall semester honor roll.

Four-Year Honor Roll

At commencement an announcement is made by the Committee on Scholarships and Prizes of those graduating seniors having maintained an average grade equal to or above the average of the lower limits of the past seven honor rolls.

Medals

French Medal

Established 1935

A medal is awarded annually by the French ministry of Foreign Affairs, through the intermediation of the French Consul General at San Francisco, to that member of the graduating class

who has shown high excellence in French courses throughout the junior and senior years and who, in the opinion of the chairman of the department of foreign languages, is most deserving of this honor.

The Herz Gold Medal Award

Established 1923

R. Herz & Brothers, Reno jewelers, award a gold medal annually to that member of the graduating class who has attained the highest average scholarship throughout his college course and has taken all of the required work for his degree (to within 8 units) at the University of Nevada. In the event of a tie, the University is privileged to buy a second medal at cost.

Prizes

The Albert Senior Public Service Prize

Established 1924

These prizes were founded by Dr. Henry Albert, formerly Director of the State Hygienic Laboratory, and perpetuated in his memory by Mrs. Albert.

Two prizes of $37.50 each are awarded annually at commencement to two outstanding students on the basis of good scholarship, good character, and worthy service to the University or the community.

The winners of the Albert Senior Public Service Prizes are chosen by the chairmen of the Faculty Committees on Scholarship and Athletics, the Dean of Women, the Master of Lincoln Hall, and the President of the University.

American Association of University Women Memberships

Established 1944

The Board of Directors of the American Association of University Women annually selects three graduating senior girls to receive honorary memberships. The selection is determined upon the recommendation of the Deans of the University and the names of the recipients are announced on Commencement Day.

Philo Sherman Bennett Prize

Established 1909

The Philo Sherman Bennett prize is the interest on a fund of four hundred dollars, given to the University by the Honorable Philo Sherman Bennett of New Haven, Connecticut. The prize is awarded for the best essay on "The Principles of Free Government." The income from this fund is allowed to accumulate until a prize of approximately fifty dollars can be given.

The Klute Foreign Language Prizes

Established 1945

A number of prizes of $50 each donated by Col. and Mrs. H. L. Klute are awarded to graduating seniors as a recognition of work of high merit done as undergraduates in the Department of Foreign Languages. The winners are selected by the chairman of the department and are announced on Commencement Day.

Ginsburg Jewelry Company Awards

Established 1939

At the beginning of the second semester of each year the Ginsburg Jewelry Company of Reno awards a fine watch of seventeen or more jewels to a man and a woman of the sophomore class in regular standing who have been in residence at the University for three semesters. *These students must possess the outstanding scholarship records of their class.* The selection of the winners is made by the University Committee on Prizes and Scholarships.

Nevada Livestock Production Credit Association Award

Established 1940

The Nevada Livestock Production Credit Association of Reno has established annual awards of $75 and $25 for the best and second-best papers written on the subject of financing of farming and/or stock raising from the angle of production.

Papers are to be not more than 2,000 words in length.

To be able to compete for these awards the student must have been registered in the College of Agriculture, University of Nevada, during the semester preceding the award, and must have completed that semester. Also, the student must be from the territory served by the donor association, which includes all of the State of Nevada and Mono and Alpine Counties and Sierra Valley, California.

Elimination contests are held under rules established by the College of Agriculture, to determine the two best papers prepared by qualified contestants. These papers are presented by the authors at the annual meeting of stockholders of the Association which is usually held in January or February of each year. The decision as to the best and second-best paper is reached by the stockholders. Immediately following the decision, the awards are made. The papers presented become the property of the Association, with full rights of publication.

Copies of the papers to be presented must be furnished to the association at least ten days before the meeting, and the association has the right to disqualify any paper not meeting the designated conditions, and to substitute the next-best paper.

SCHOLARSHIPS*

1. JEWETT W. ADAMS SCHOLARSHIP FUND

Established 1942

In conformance with the will of Mrs. Emma Lee Adams, wife of the late Honorable Jewett W. Adams, former governor of Nevada, the Jewett W. Adams Scholarship Fund of $40,000 was established. The interest on this money is used to assist deserving students.

The Committee on Scholarships and Prizes presents the awards with attention to the following qualifications:

Financial need, promise of future leadership, proven scholastic ability, and good character.

2. ARMANKO OFFICE SUPPLY SCHOLARSHIPS

Established 1936

The Armanko Office Supply Company of Reno offers two scholarships of $100 each to students in the Departments of Chemistry and Physics. These scholarships are awarded on Commencement Day by the heads of the Departments of Chemistry and Physics and the Chairman of the Committee on Scholarships and Prizes to students possessing the following requirements:

1. Upright moral character.
2. General scholarship.
3. Outstanding scholastic attainment in the department.
4. Evidence of interest in the field.
5. Completion of a minimum of four hours in the department during the past school year.
6. Financial need is considered only when two students otherwise possess equal qualifications.

One half of this award is paid in the fall and the other half in the spring semester.

3. ASSOCIATED WOMEN STUDENTS' SCHOLARSHIPS

Established 1918

The Associated Women Students of the University of Nevada present an annual scholarship of $25 to the woman student who attains the highest average grade for the year and who receives no other scholarship.

4. JOSEPHINE BEAM SCHOLARSHIPS

Established 1944

By the will of Josephine Beam, a trust fund was established

*No award in the form of a scholarship will be made unless the recipient is duly enrolled in the University at the time the award is payable.

with the Zion Savings Bank and Trust Company of Salt Lake City, to be known as the Josephine Beam Education Fund. The yearly income of approximately $3,000 is shared equally by the University of Utah and the University of Nevada.

These scholarships are awarded to incoming freshmen by the President of the University of Nevada, the State Superintendent of Public Instruction, and a representative of the trustee, on the basis of high school scholastic record, principal's recommendation, and college aptitude tests.

Each scholarship is paid in two installments: one each semester. The Committee reserves the right to withhold the second payment should the student's first semester record prove unsatisfactory.

5. The Horace P. Boardman Scholarship In Civil Engineering

Established 1941

Fred A. and Betty R. Roemer provide a $100 annual scholarship known as the Horace P. Boardman Scholarship in Civil Engineering.

The individual selected must possess good character and good scholarship and be in need of financial assistance. Also, he should have earned either junior or senior standing as a duly enrolled student in the University of Nevada. Both the principal and alternate are chosen by the Civil Engineering faculty.

One half of this scholarship is payable each semester, provided the winner is regularly enrolled as a student at the University.

6. The Frank O. Broili Scholarship In Electrical Engineering

Established 1942

The late Mrs. Francis Leonard Broili Bradley of Reno bequeathed $5,000 to the University of Nevada. The income therefrom is to be used to establish The Frank O. Broili Scholarship in Electrical Engineering at the University of Nevada, or to be used for this department in such manner as the President and the Regents of the University may determine.

7. The Marye Williams Butler Scholarship

Established 1921

In memory of her daughter Marye Williams Butler, a graduate of the University of Nevada Normal School, class of 1899, Mrs. Sophie E. Williams, Nye County, established a scholarship fund of $1,000.

The income from this fund, payable in the fall semester, is to be awarded by the University Committee on Scholarships and Prizes to that student who has completed mathematics through

calculus with an average grade of "B" in all work in mathematics, who has earned due credit in this minimum of mathematics not later than the second semester of his junior year, and who receives no other scholarship.

8. The Azro E. Cheney Scholarship

Established 1922

The Honorable Azro E. Cheney bequeathed $5,000 in trust to the University of Nevada to be controlled and invested by the Board of Regents. The income from this fund is awarded by the University Committee on Scholarships and Prizes at each annual commencement to that member of the freshman or sophomore class who is a *bona fide* resident of Nevada and who is certified by the chairman of the Department of English as being the best student in English during that year. Both character and improvement are also considered.

One half of this award is payable in the fall term and the other half in the spring.

9. The Charles Elmer Clough Scholarships In Engineering

Established 1926

Mr. Charles Elmer Clough of Reno established two scholarships in engineering, each of which carries an annual value of one-half of the income received from the Charles Elmer Clough Trust Fund during the calendar year from one University commencement to the next. The scholarships are awarded at the end of each University year, beginning with the award in May 1927.

The winners are chosen by the head professors of the Schools of Civil, Electrical, and Mechanical Engineering from the students enrolled in those schools. The two recipients must be the best all-round students, must be self-supporting in whole or in part, and be of good character and of good scholarship. One of them must have earned senior standing, and the other junior standing, in the University of Nevada.

10. The Daughters of the American Revolution Scholarship

Established 1939

The Nevada Sagebrush Chapter (Reno) of the Daughters of the American Revolution grants an annual scholarship of $50 to either a man or a woman nominated by the University Committee on Scholarships and Prizes for character, leadership, and scholastic attainment, upon the satisfactory completion of at least one year's work in the University.

One half of this award is paid each semester provided the winner is registered in the University.

11. The Thos. E. Dixon Scholarship

Established 1945

This scholarship fund of $3,000, a gift of Mr. Dixon of Caliente to aid deserving students, is administered jointly by the faculty of Lincoln County high school and the Chairman of the Committee of Scholarships and Prizes. The high school faculty chooses the recipient, while the chairman of the University committee determines when payments are to be made.

12. The Reno Lodge of Elks Athletic Scholarship

Established 1937

The Reno Lodge of Elks established this scholarship of $100 to be awarded at commencement to a man student who is a leader among the students, and who is a recipient of no other scholarship.

The winner is chosen by a committee of three Elks and the University of Nevada Director of Athletics from a list of five nominated by the Athletic Control Board.

The scholarship is paid in two installments of $50 each, the first payable in the fall and the second in the spring semester.

13. Epsilon Sigma Phi 4–H Club Scholarship

Established 1940

The Nevada Chapter of Epsilon Sigma Phi, honorary society of agricultural extension workers, established the Epsilon Sigma Phi 4-H Club Scholarship of $50 in the College of Agriculture of the University of Nevada.

The Dean of the College of Agriculture and two members of the staff of the University's Agricultural Extension Service selected by Epsilon Sigma Phi, choose as the recipient of the scholarship that boy or girl who has achieved the most in his Nevada 4-H Club work.

The scholarship becomes available to the winner, within one year after his graduation from high school, upon his registration in the College of Agriculture of the University of Nevada. One half is paid one month after the beginning of both semesters of his freshman year.

14. The Major Max C. Fleischmann Scholarships

Established 1938

By successive gifts, Major Max C. Fleischmann has provided approximately $175,000 worth of securities as a scholarship fund. The income from approximately $118,000 goes to regular University of Nevada students, and that from approximately $57,000, to incoming freshmen.

The regular students must fulfill the following requirements:

1. Need financial assistance to the amount of the scholarship in order to continue in the University.
2. Give promise of becoming effective citizens upon graduation and be worthy of such assistance.
3. Show qualities of leadership and a spirit of cooperation by active participation in a student activity or activities.
4. Have excellent scholastic records.

These scholarships are paid in three equal installments during the school year.

The freshmen are selected on the following basis:

1. High school scholarship record of seven semesters.
2. High school principal's recommendation.
3. College aptitude test.

One half of these scholarships are awarded in the fall and the other half in the spring semester, providing the student has made a creditable record during his first term of attendance at the University.

15. The Goodwin Scholarship of Music

Established 1946

In memory of her son, Roland Humphrey Goodwin, a native of Reno, Nevada, who depended upon music for his relaxation and inspiration, Mrs. Winifred Goodwin established an annual scholarship of $50 in the Department of Music. This scholarship is awarded on Commencement Day by the head of the Department of Music and the Chairman of the Scholarship Committee with attention to the following requirements:

1. Upright moral character.
2. General scholarship.
3. Outstanding scholastic ability in the department.
4. Evidence of interest in the field as shown by participation in band, chorus, or orchestra, or interest in piano, violin or organ.
5. Completion of a minimum of four hours in the department during the past school year.
6. Other things being equal, preference is given to a student intending to minor in music.
7. Financial need is a consideration only when two students otherwise possess equal qualifications.
8. To a student of sophomore, junior, or senior standing who has completed her freshman year of work at the University of Nevada.

One-half of this award is paid in the fall and the other half in the spring semester.

16. The Grand Army of the Republic Scholarship

Established 1934–1935

The Woman's Relief Corps of the Department of California and Nevada established the Republic Memorial Scholarship Fund, the interest of which is used for scholarships for descendents of soldiers or sailors of the Union in the Civil War.

The income of the Relief Corps' fund, supplemented by gifts from the Nevada Relief Corps at Carson City, Reno, and Virginia City, provides a $50 scholarship.

One half of this scholarship is paid in the fall and the other half in the spring semester.

17. The Carl Raymond Gray Scholarships In Vocational Agriculture

Established 1926

The Union Pacific Railroad offers an annual scholarship of $100 to a high school boy from each county served by the railroad who has completed a high school vocational agriculture course and who has the highest average rank in scholarship, supervised practice work, and qualities of leadership. The scholarship is awarded upon enrollment of the winner for a full four-year course in agriculture in the University of Nevada.

The winner is selected by a committee of three appointed by the State Supervisor of Agriculture.

The scholarship is paid as follows: Fifty dollars upon completion of registration in the Agricultural College of the University; $25 upon registration for the second semester, and $25 upon registration for the third semester.

18. The Carl Raymond Gray Scholarships to 4–H Club Members

Established 1926

The Union Pacific Railroad offers annually a scholarship of $100 in agriculture or home economics to one boy or girl 4-H club member in each county served by the railroad, for use in the College of Agriculture or the School of Home Economics of the University of Nevada.

The winner of the award is selected by a committee of three persons appointed by the State Director of Agricultural Extension on the basis of quality and quantity of project work and records, and on the basis of character, interest, qualities of leadership, community activities, school activities, and scholastic standing.

Payment of the scholarship award is made upon certification that the student has enrolled at the University for a course in agriculture or home economics. Payment is made in three installments; the first installment of $50 to be paid upon registration

and establishment of the student in the classes of the college; the second of $25 upon registration for the second semester; and a third of $25 upon registration for the third semester.

19. Edison and Laura Smith Memorial Scholarships

Established 1945

Harold's Club of Reno provides an annual scholarship to a graduate of Carson City High School and a resident of the Nevada Orphans' Home. The candidate is recommended by the principal of Carson City High School and approved by the Dean of the college in whose school he expects to register. This scholarship covers all expenses for four years of college work.

20. Royal D. Hartung Industrial Education Scholarship

Established 1942

Under the terms of the will of the late Otto Hartung, the income from his estate was left to the Independent Order of Odd Fellows to be used to establish and maintain an orphans' home to be known as the "Royal D. Hartung Home for Orphans and Foundlings" with the stipulation that if this provision were not carried out, the entire estate should go to the University of Nevada to establish "The Royal D. Hartung Industrial Education Fund." Inasmuch as there were no orphans or foundlings to be provided with a home, the residue of the estate was conveyed in the summer of 1942 to the University of Nevada to establish "The Royal D. Hartung Industrial Education Fund."

The available income from this fund is awarded annually to a qualified student or students (preferably orphans) who are seeking an industrial education in the College of Engineering.

21. The Herd & Short Scholarship

Established 1944

Mr. Hugh Herd and Mr. Charles Short, clothiers, of Reno, offer a scholarship of $100 to a student in the Department of Economics, Business, and Sociology. This scholarship is awarded on Commencement Day by the head of the Department of Economics, Business, and Sociology, and the chairman of the Committee on Scholarships and Prizes with attention to the following requirements:

1. Upright moral character.
2. General scholarship.
3. Outstanding scholastic ability in the department.
4. Evidence of interest in the field.
5. Completion of a minimum of four hours in the department during the past school year.
6. Financial need, considered only when two students otherwise possess equal qualifications.

One half of this award is paid in the fall and the other half in the spring semester.

22. The Mrs. Carl Otto Herz Scholarship

Established 1926

This scholarship was established by Mrs. Carl Otto Herz of Reno and for several years after her death was continued by Mr. Carl Otto Herz. At the 1930 commencement Mrs. Herz's heirs presented funds to the University to endow perpetually this scholarship in her memory.

The income from this fund is awarded at the end of each University year by the University Committee on Scholarships and Prizes to one of three electrical engineering students nominated by the head professor of electrical engineering. The nominees must be self-supporting in whole or in part, be of good character and of good scholarship and must have earned senior standing in the University of Nevada.

23. The Carrie Brooks Layman Memorial Scholarship

Established 1929

This annual scholarship, established in memory of Carrie Brooks Layman, provides for ten consecutive payments of $20 each to a worthy, self-supporting sophomore or upperclass man or women student, who while in college, avoids bad debts and abstains from intoxicants and tobacco.

The recipient of this scholarship is chosen each spring by the University Committee on Scholarships and Prizes. If a son or grandchild of Mrs. Layman should enter the University of Nevada then such son or grandchild shall have prior claim to this scholarship.

The initial $20 is payable during the first month of the fall semester and after the recipient has completed registration.

24. The William S. Lunsford Scholarship in Journalism

Established 1935

Ethel Lunsford Frost and Harry J. Frost established this annual scholarship of $100 to be known as the William S. Lunsford Scholarship in Journalism.

This scholarship is awarded to a man or woman student having all the following requirements:

1. A worthy moral character.
2. An unusual talent and future promise in the field of journalism.
3. An average grade no less than the average grade of the University.
4. A major in journalism.

5. Junior or senior standing during the University year the scholarship is held.

The University Committee on Scholarships and Prizes awards this scholarship upon the recommendation of the head of the Department of Journalism. Should the recipient fail to keep in good standing in his studies, except through circumstances beyond his control, he automatically forfeits the scholarship, which is then awarded to an alternate chosen by the same committee and satisfying same conditions.

25. The Honorable William O'Hara Martin and Louise Stadtmuller Martin Scholarship in History and Political Science

Established 1946

Anne Henrietta Martin and Clara Martin Wight established a scholarship fund of $2,000 in memory of their parents, Honorable William O'Hara Martin and Louise Stadtmuller Martin, Nevada pioneers.

The income from the fund shall provide an annual scholarship of $50 in the department of history and political science to be awarded on Commencement Day to a woman student completing her sophomore or junior year of college by the chairman of the Department of History and Political Science and the chairman of the Committee on Scholarships and Prizes with attention to the following requirements:

1. Courageous citizenship and high personal conduct.
2. General scholarship.
3. Outstanding scholastic ability in the department.
4. Evidence of interest in the social science field.
5. Completion of a minimum of ten hours in history or political science.
6. Financial need is a consideration only when two students otherwise possess epual qualifications.

One-half of this award is paid in the fall and the other half in the spring semester.

26. The Rose Sigler Mathews Scholarship

Established 1920

In memory of his wife, Rose Sigler Mathews, Mr. Isaac R. Mathews of Reno established a scholarship fund of $10,200.

Awards are made by the Committee on Scholarships and Prizes on the basis of scholarship, need, and character.

27. The Emporium of Music Scholarship

Established 1944

Mr. and Mrs. Wilfred P. Smith offer a scholarship of $100 to a student in the Department of Music. This scholarship is

awarded annually on Commencement Day by the head of the Department of Music and the chairman of the Committee on Scholarships and Prizes with attention to the following requirements:

1. Upright moral character.
2. General scholarship.
3. Outstanding scholastic ability in the department.
4. Evidence of interest in the field as shown by participation in band, chorus, or orchestra.
5. Completion of a minimum of four hours in the department during the past school year.
6. Other things being equal, preference is given to a student intending to minor in music.
7. Financial need is a consideration only when two students otherwise possess equal qualifications.

One half of this award is paid in the fall and the other half in the spring semester.

28. The Nevada Federation of Music Scholarship

Established 1946

The Nevada Federation of Music offers a scholarship of $50 to a student in the Department of Music. This scholarship is awarded annually on Commencement Day by the head of the Department of Music and the chairman of the Committee on Scholarships and Prizes with attention to the following requirements:

1. Upright moral character.
2. General scholarship.
3. Outstanding scholastic ability in the department.
4. Evidence of interest in the field as shown by participation in band, chorus, orchestra, or harmony and theory.
5. Completion of a minimum of four hours in the department during the past school year.
6. Other things being equal, preference is given to a student intending to minor in music.
7. Financial need is a consideration only when two students otherwise possess equal qualifications.

One-half of this award is paid in the fall and the other half in the spring semester.

29. The Grand Lodge of the Independent Order of Odd Fellows Scholarships

Established 1939

This fraternal order authorizes the award of four annual scholarships not to exceed the sum of $150 each. The students who receive these awards are chosen by the I. O. O. F. after

recommendations have been submitted to the Board of Trustees and the Scholarship Committee of the Grand Lodge by the Committee on Scholarships and Prizes of the University of Nevada. Two of these scholarships are awarded to young men and two to young women who meet the following requirements and are approved by the Scholarship Committee of the Grand Lodge of Nevada:

1. Must be the son or daughter of an Odd Fellow and a Rebekah in good standing in their respective subordinate lodges in the jurisdiction of the Grand Lodge of Nevada.
2. Must have the approval of the Scholarship Committee of the Grand Lodge of I. O. O. F. of Nevada.
3. Must be of good moral character.
4. Must be a graduate of a Nevada high school.
5. Must have spent the freshman year at the University of Nevada.
6. Must give promise of future achievement.
7. Must have received no other scholarship.

One half of the scholarship money is payable to the respective winners each semester, provided the winners are duly enrolled in the University of Nevada and are in good scholastic standing. Alternates shall be chosen to receive these scholarships in the event the accepted candidates do not return to school or are declared ineligible by the committee.

30. Premedical—Prenursing Scholarship

Established 1931

This annual scholarship of $100, the gift of an anonymous donor, is awarded by the University Committee on Scholarships and Prizes and the head of the Department of Biology, to the worthiest premedical or prenursing student who has completed the freshman or sophomore year at the University of Nevada.

One half of this scholarship is paid in the fall and the other half in the spring semester.

31. The Nevada State Press Association Scholarship In Journalism

Established 1938

The Nevada State Press Association established this annual scholarship of $100 to assist and encourage worthy and promising Nevada students preparing for the profession of journalism.

It is awarded under the following conditions, as outlined by the executive committee of the Press Association:

The recipient

1. Must be a graduate of a Nevada high school.

2. Must be registered in the course in Journalism or be majoring in Journalism.
3. Must have revealed talent in this field.
4. Must have shown proficiency and earnestness in the courses in Journalism.
5. Must have attained in all university work the average grade required for graduation.
6. Must have at least one more year of university work to complete, and normally must have been registered as a student at the University for at least two consecutive years prior to the time of the awarding of the scholarship.
7. Must be at least in part self-supporting and in need of financial assistance in order to continue University work.

The recipient of the scholarship is chosen by the chairman of the Department of Journalism, and receives the award from the Committee on Scholarships and Prizes.

If the recipient of the scholarship fails to keep in good standing, except through circumstances beyond his control, or fails to attend the University the following year, he automatically forfeits the scholarship. The award then goes to an alternate chosen under the same conditions.

32. Nevada Rebekah Assembly Scholarships

Established 1939–1940

The Nevada Rebekah Assembly annually gives two scholarships of forty dollars each, one to a son and one to a daughter of a Rebekah, under the following conditions:

1. At the time of application the recipient's father must be an Odd Fellow and his mother a Rebekah of five years' good standing; or his mother must be a Rebekah of five years' good standing; or his mother, if deceased, must have been in good standing at the time of her death, in a Rebekah lodge under the jurisdiction of the Rebekah Assembly, I. O. O. F., of the State of Nevada.
2. The recipient must have sophomore or junior standing and be registered in the University when the scholarship is awarded.
3. He must have good scholastic standing; be of good character; and, in his relations with fellow students and members of the faculty, be kind, generous, and thoughtful.
4. He must have participated in a reasonable number of extracurricular activities and be, at least in part, self-supporting and in need of financial assistance in order to continue work at the University.

A committee consisting of the three trustees, the secretary, and the treasurer of the Rebekah Assembly of Nevada chooses the recipients of these scholarships each year. This committee may receive recommendations from the University Committee on

Scholarships and Prizes, but need not be bound by these recommendations in its selection.

The scholarships are payable to the respective winners, one half in the fall, and the other half in the spring semester.

33. Regents' Scholarships

A. Established 1911

Five Regents' Scholarships of $50 each are awarded annually to regular students of the highest scholarship whose names have appeared on the honor roll both semesters of the year in which the award is made, one to a freshman, two to sophomores, and two to juniors. These scholarships are paid during the fall semester.

B. Established 1922–1923

By formal action the Regents have exempted the following Federal groups from the payment of the nonresident tuition charge:

1. Officers and enlisted men in active service of the United States Army and Navy and their children.
2. Sons and daughters of officers, warrant officers, and enlisted men in active service in the Coast Guard.

C. Established 1927

At the request of the General Federation of Women's Clubs, in any one University year, a total of not more than ten students from Mexico, Central America, and South America will be admissible without the payment of the nonresident tuition; provided, that not more than three such students from any one nation in this area receive this exemption within the same year; and provided, that each student who receives this privilege is a native-born citizen of the country from which he is admitted. It is understood that such students will be required to pay all other regular University charges.

34. Reno Business and Professional Women's Scholarship

Established 1945

This annual scholarship of $50 shall be awarded by the Committee on Scholarships and Prizes and the Committee on Scholarship of the Reno Business and Professional Women to students in such fields as (1) teaching, (2) commercial education, (3) social work, (4) premedical and prenursing, (5) journalism, (6) chemistry, (7) premedical technology, (8) business administration.

This scholarship will be awarded with attention to the following requirements:

1. Upright moral character.
2. General scholarship.

3. Outstanding scholastic achievement in the major field.
4. Evidence of interest in the major field.
5. Financial need, considered only when two students otherwise possess equal qualifications.

One half of this award is paid in the fall and the other half in the spring semester.

35. The Rhodes Scholarships

Special attention is called to the Rhodes Scholarships tenable at the University of Oxford. Since the majority of Rhodes scholars obtain standing at Oxford which enables them to take a degree in two years, appointments are made for two years in the first instance, with a possible third year for those whose record at Oxford and plan of study make such an award advisable.

The stipend of a Rhodes Scholarship is fixed at 400 pounds (approximately $2,000) a year, but a Rhodes scholar should be prepared, if possible, to supplement this amount by at least $250 a year from his own resources.

The annual competition for Rhodes Scholarships has, since 1930, been organized by States and districts, there being eight districts of six States each. Nevada is grouped with California, Utah, Arizona, Colorado, and New Mexico to comprise the southwestern district. Each State Committee of Selection may nominate two candidates to appear before the District Committee which, in turn, may then select not more than four candidates to represent their respective States at Oxford.

Upon recommendation by his college or university, a prospective candidate may apply either in the State in which he resides or in the State in which he has received at least two years of his college education by the time of application.

A candidate to be eligible must: (a) Be a male citizen of the United States, with at least five years' domicile, and unmarried. (b) By the first of October of the year for which he is elected, have passed his nineteenth and not have passed his twenty-fifth birthday. (c) By the time of application have at least junior standing at some recognized degree-granting university or college of the United States.

The qualities which Rhodes specified in his will as forming the basis of selection are: (a) literary and scholastic ability and attainments; (b) qualities of manhood, truth, courage, devotion to duty, sympathy, kindness, unselfishness, and fellowship; (c) exhibition of moral force of character and of instincts to lead and to take an interest in his schoolmates; (d) physical vigor as shown by interest in outdoor sports or in other ways.

Some definite quality of distinction, whether in intellect, character or personality, or in any combination of them, is the most

important requirement for a Rhodes Scholarship. Financial need does not constitute a special claim for consideration.

The appointments thus far made to Rhodes Scholarships from the State of Nevada are as follows:

1907—Arthur Leonidas St. Clair, Deeth.
1908—William Scott Unsworth, Reno.
1910—Stanley Mayhew Wilton, Goldfield.
1911—Cedric Harding Beebe, Reno.
1913—Floyd Sherman Bryant, Sparks.
1914—Walter Clarence Jepsen, Verdi.
1917—Thomas Henry Edsall, Reno.
1919—Stanley M. Pargellis, Reno.
1921—Charles M. Chatfield, Reno.
1922—Leslie Maltby Bruce, Reno.
1923—Paul A. Harwood, Reno.
1925—John Ocheltree, Reno.
1926—Fred Siebert, Reno.
1928—Fred Anderson, Carson City.
1929—Francis Duborg, Reno.
1932—Alden Sibley, Reno.
1937—Russell W. McDonald, Reno.

War Service Scholarships

In addition to ordinary appointments, the Rhodes Trustees have created a limited number of War Service Scholarships for which men will be eligible who at any time since October 1, 1940, were between the ages of 19 and 25 years, and who have completed at least one year of war service. For the purposes of the Rhodes Scholarships, war service is recognized as not merely membership in the Armed Forces, but as also various kinds of civilian war work, such as scientific research, education, Government service, and positions in industry or agriculture which contributed to the war effort. Any work will be considered as war service for which Draft Boards have granted deferment. Candidates for War Service Scholarships will be required to have completed one year (instead of the customary two years) of College or University work before applying. It is expected that War Service Scholarships will be offered each year for at least two, and possibly for three, years. For appointment to a War Service Scholarship, marriage will not be a bar. For War Service Scholarships, the regulations, except as regards age, marriage, and the amount of college training required, will be the same as for regular appointments.

36. The Rotary Club of Reno Scholarship

Established 1939

Reno Rotary Club No. 248 awards an annual scholarship of

$100 early in the second semester to either a man or a woman who has completed at least one semester's work in the University and is again enrolled, who possesses good character and a good scholastic record, is self-supporting in whole or in part, and who, after the grades for the first semester of the academic year are available, has been recommended to the officers of the Rotary Club of Reno by the Chairman of the University Committee on Scholarships and Prizes.

This scholarship is payable to the winner at the office of the Secretary of the Rotary Club of Reno in eight equal monthly installments of $12.50, due on the first business day of the months of February, March, April, May, September, October, November, and December.

37. Sears Roebuck Agricultural Foundation Scholarships

Established 1941

The Sears Roebuck Company, in a nation-wide program for the benefit of the agricultural industry as well as for the individual students, established the Sears Roebuck Agricultural Foundation Scholarships. These scholarships, six in number, are awarded to freshmen students and have an annual value of $125 each.

The winners of this award are selected by the Dean of the College of Agriculture on the basis of worthiness and need of financial assistance. The scholarships are payable at the Comptroller's office, one half in the fall and one half in the spring, provided the winner is then enrolled.

38. The Semenza Scholarship in Business, Economics and Sociology

Established 1946

In honor of her husband, Mr. John L. Semenza, Mrs. John L. Semenza of Reno established a scholarship of $100 in the Department of Economics, Business and Sociology. This scholarship is awarded on Commencement Day to a student completing the sophomore or junior year in the University by the chairman of the Department of Business, Economics and Sociology and the chairman of the Committee on Scholarships and Prizes with attention to the following requirements:

1. Upright moral character.
2. General scholarship.
3. Outstanding scholastic ability in the department.
4. Evidence of interest in the field.
5. Student's intention to complete minor or major in the department.

One-half of this award is paid in the fall and the other half in the spring semester.

39. Raymond Spencer Scholarship

Established 1937

In memory of her husband Raymond Spencer, class of 1912, Mrs. Isabelle Schuler Spencer, also 1912, established an annual scholarship of $250 to be given to a student in the School of Electrical Engineering who has good character, good scholarship, and junior or senior standing at the time of the award, and is self-supporting in whole or in part.

The scholarship, paid in ten equal monthly installments, is annually created from the profits of the Spencer Lumber Company, Walnut Creek, California, as the business will allow.

The student is chosen by a committee of three, consisting of the head of the School of Electrical Engineering, the chairman of the Committee on Scholarships and Prizes, and a third person to be named by these two. The winner must be enrolled in electrical engineering in the University of Nevada during the time the payments are being made; otherwise the payments are made to an alternate, chosen under the same conditions.

40. The Ella S. Stubbs Memorial Scholarship

Established 1919

The Women's Faculty Club offers the Ella S. Stubbs Memorial Scholarship of $100 to a student entering the junior or senior class who is working his way, wholly or in part, through the University and who has received no other scholarship.

41. The Mary Elizabeth Talbot Memorial Scholarship

Established 1944

Ida Mary Hoover, Harry J. Robinson, and Sidney W. Robinson, niece and nephews of Mary Elizabeth Talbot, are the donors of this $300 annual scholarship in mathematics.

The scholarship is awarded by the chairman of the Department of Mathematics and the chairman of the Committee on Scholarships and Prizes with attention to the following requirements:

1. Upright moral character.
2. Outstanding scholastic ability in mathematics for a period of at least one year prior to the award.
3. Students with majors in mathematics to receive preference.
4. Financial need of student to be a factor of first consideration only when two or more students are otherwise equally qualified to receive the award.

One half of this award is paid in the fall and the other half in the spring semester.

42. University of San Francisco Resident Tuition Scholarship in Law

Established 1935

The University of San Francisco offers to a graduate of the University of Nevada an annual scholarship of one year's free resident tuition in its day law school.

The recipient must be recommended by the President of the University of Nevada, as being, in his judgment, well-qualified scholastically and personally to profit by this scholarship.

43. The Rita Hope Winer Memorial Scholarship

Established 1938

This scholarship, established by gifts from friends of Rita Hope Winer, provides that $50 from the principal and the income shall be awarded to the most deserving woman who, completing her junior year, is including in her work all the minimum required courses in the School of Education to entitle her to a high school diploma, and who plans to be a public school teacher. The winner is to be chosen by the Dean of Education and the Chairman of the University Committee on Scholarships and Prizes.

Foundations

The Robert Lardin Fulton Lecture Foundation*

Established 1924

In memory of Robert Lardin Fulton, constructive citizen of Nevada for over half a century, Mrs. Mary Bragg Fulton established a lecture foundation at the University. The income from this foundation is to be used to bring annually to the University some leader in the field of science, art, literature or public affairs, who will give a series of lectures upon his special subject. The lectures were initiated in April 1925. The committee chosen by the founder to select the lecturer under this foundation consists of the President of the University, the Deans of the Colleges of Arts and Science, of Agriculture, of Engineering, of the School of Education and the Director of the Mackay School of Mines.

Lecturers	*University Year*
Dr. Robert A. Millikan	1924–1925
Dr. Edward T. Devine	1925–1926
Upton Close (Josef Washington Hall)	1926–1927
Dr. Will Durant	1927–1928
Count Ilya Tolstoy	1928–1929
Dr. Frank Morton McMurry	1929–1930

*Suspended for the years 1931–1938 at the desire of the executor of the estate of the donor. Because of readjustment of plan, no lectures were given in 1939–1940 or 1941–1946.

Lecturers	*University Year*
Dr. James H. Cousins	1930–1931
Dr. Robert A. Millikan	1938–1939
Miss Mary A. Dingman	1940–1941
Dr. Will Durant	1945–1946
Mrs. Ruth Bryan Owen Rohde	1946–1947

The S. Frank Hunt Foundation

Established 1935

In memory of Mr. S. Frank Hunt, discoverer and developer of the Rio Tinto mine, the Regents of the University established the Hunt Foundation from successive gifts of cash, mining stocks, automobiles, and equipment that Mr. Hunt gave the University for the Mackay School of Mines.

As Mr. Hunt desired, the foundation provides the opportunity for faculty and students to make trips to operating mines, mills, and mining meetings during the college year, along with week-end trips in connection with school courses. It also provides for the Hunt trip, a free summer course of several weeks to enable a chosen number of students to make a study of mines, prospecting, and geological mapping.

Loan Funds

The Nevada State Federation Scholarship Fund—The Nevada State Federation of Women's Clubs has established a scholarship fund to be lent to students of the University of Nevada in amounts varying to suit individual needs. The money thus lent is to be returned to the fund at the borrower's convenience without interest. Loans are available first to girls, high school graduates, or girls who have completed one year of normal or university work, the latter to have the preference. Boys are eligible under like conditions, but only when the funds are ample and no applications from girls are on file. Students desiring to take advantage of this offer will apply to Mrs. H. A. Paradis, State Chairman of the Committee on Student Loan Fund, 1419 C Street, Sparks, Nevada.

The David Russell Loan Fund—By will, David Russell of Loyalton, California, bequeathed, in 1908, the annual income of his residual estate to the University of Nevada after an annual $100 payment had been made to another institution. The Board of Regents established the David Russell Fund to receive these annual payments after they became available in 1913. The board has set aside $6,000 of this fund as a revolving fund for loans to deserving students who satisfy the President of the University of their fitness to receive this aid. The money is lent to students on the basis of 4 percent interest until maturity. In

practice, loans are not made to freshmen nor can a loan in excess of $150 be made to any one student.

The Olin Ward Bequest—Two scholarships of $300 each, bequeathed by Mr. Olin W. Ward of Reno, Nevada. Under the terms of the will the beneficiaries of such scholarships must be earnest, industrious boys, of good moral character, financially unable to attend or continue their attendance at the University without the aid of such scholarships, and shall be chosen by the President of the University. Each beneficiary so chosen must, as a condition of his receiving such scholarship and before said sum or any part thereof is paid to him, enter into a written agreement with the Board of Regents that he will, within seven years after receiving such scholarship, pay or cause to be paid to the Board of Regents the sum of $300 for the purpose of providing a scholarship in the University for some boy having like qualifications and chosen as above specified.

The Charles Haseman Memorial Loan Fund—A student-loan fund to be known as the Charles Haseman Memorial Loan Fund, the principal sum of which is $500, was established in 1940 by Emily Ross of Reno, under the following conditions:

The loans are to be made only to students who have finished calculus and who have attained an average scholastic grade of at least "C" or its equivalent.

No loan shall be made except to one who, in the opinion of the chairman of the Department of Mathematics, needs the loan, and it shall not in any event exceed the sum of $100.

No individual loan for more than $100 shall be made from said fund in any academic year. However, to any needy student a second loan not to exceed this amount may be made during his fourth academic year.

Each student to whom a loan shall be made shall give a personal note, payable on or before the end of four years from date, with interest payable at the rate of one and one-half percent per annum, and each note shall have a co-signer.

The interest and payments which are returned by borrowers shall become a part of this fund and, so far as may be feasible, the unexpended portion of the fund shall be kept invested as are other endowments of the University of Nevada.

Loans under this fund shall be made only on the recommendation of the chairman of the Department of Mathematics of the University of Nevada.

The Marion Lyster Kittle Scholarship Loan Fund—A loan fund for students of the Mackay School of Mines was established in 1944 by Otis A. Kittle, B.S., Mackay School of Mines, 1941, in memory of his wife and as a token of appreciation for the great good and happiness that came to both of them in Nevada.

This loan fund of $1,000 with its accumulations is managed by the University of Nevada, with loans available to junior and senior students majoring in geology, mining, and metallurgy upon the recommendation of the faculty of the School. The rate of interest is not to exceed 4 percent and co-makers are required, preferably with the parent or parents as one co-maker. No faculty member of the University of Nevada is permitted to be a co-maker.

Other Aid to Students

For aid to students other than by scholarships, see *Aid to Students,* in the Index.

A Word to Donors

Many of the functions of the University have been advanced by private benefactions, and some very important activities are due almost entirely to the generosity of groups or of individuals. The University will be greatly aided in its program of service to Nevada and to the Nation if it is given substantial subvention, either in general endowment or in specific gifts. The administration will gladly give advice as to the manner in which gifts or bequests may be most suitably made.

It is advisable for any one contemplating a bequest for charitable purposes to ascertain the requirements of the law in the State in which he resides, and to take special pains to comply with such requirements. For tax purposes, gifts to the University including premiums for life insurance made payable to the University are allowable deduction from gross income.

Gifts to the University

(1938–1946)

1938—

Mrs. Ludovica D. Graham of Reno—the Cardinal Rampolla collection of Italian and other marbles.

Major Max C. Fleischmann—approximately $100,000 in Standard Brands stocks (from 1938 to 1941) in the form of scholarships.

1941—

An anonymous donor—$250 to establish the General Endowment Fund.

An anonymous donor—$50 added to the General Endowment Fund.

An anonymous donor—bond of Alexander Pantages Company, p. v. $500, to the General Endowment Fund.

An anonymous donor—an addition of $100 to the General Endowment Fund.

An anonymous donor—two bonds, Mississippi River Power Co., p. v. $100; and Hudson Manhattan Railroad Co., p. v. $500, to the General Endowment Fund.

1942—

Mrs. Luella Rhodes Garvey—approximately $100,000.

Mrs. Jewett W. Adams—approximately $50,000.

Mrs. Alice Dimmett—one-fourth interest in the Clay Peters Building in Reno.

Mrs. Josephine Beam—an unspecified sum, largely in Philippine Islands mining property, the status of which remains in doubt.

Joseph D. Layman—$200 per year, to be used in fulfilling the terms of the Carrie Brooks Layman Scholarships.

1943—

Dr. W. H. Hood estate—general endowment addition.

Senator J. G. Scrugham—*The War of the Rebellion,* official history of the Civil War.

. Paul L. Hartman and friends—$226.60 to purchase physics books for the library as a memorial to the late President Leon W. Hartman.

1944—

President John O. Moseley—the libraries of his father and grandfather, John Watkins Moseley, Jr., and John Watkins Moseley, Sr.

Mr. Otis A. Kittle of Reno—$1,000 to establish the "Marion Lyster Kittle Loan Fund" as a memorial to his wife.

1945—

Mrs. C. W. West, wife of the late Dr. C. W. West—Dr. West's medical library consisting of more than 250 volumes, chiefly on surgery.

Mr. E. L. Cord of Esmeralda County, Nevada—valuable Holstein bull for the University Experimental Farm.

Mr. and Mrs. W. H. Edmonds of Reno—their entire personal library, consisting of more than 1,000 volumes, including both fiction and technical books, some more than one hundred years old.

Major Max C. Fleischmann—$10,000 to establish the "New Stock Account" fund for purchasing purebred stock for the University Farms.

Mr. Melvin E. Jepson of Reno—$100 to start an "Appreciation Fund" for a student union building, this amount later increased by him to $500 and supplemented by a promise of monthly donations of $5.

A "Citizen of Nevada"—$150,000 in stocks for the encouragement and development of Agriculture at the University of Nevada.

Mr. and Mrs. Arthur E. Orvis of Reno—$3,000 to establish the "President's Discretionary Fund:"

Mrs. Lora J. Knight of Reno—$1,000 toward the salary of an Executive Secretary for the campus Y. W. C. A.

Mr. Stanley L. Gordon of Winnemucca—a rare tooth, found in the Winnemucca mountains, identified as that of a pre-historic animal.

Mr. and Mrs. F. S. Markham of Palm Springs, California—the "O'Brien Mineral Collection," formerly owned by Mr. Joseph O'Brien of Beatty, Nevada, for display, study and research, in the Mackay School of Mines, and $3,000 for housing the collection.

Mr. O. T. Muehlmeyer, owner of the Muehlmeyer Heat Treatment Company of Rockford, Illinois—a small bench gas heat treating furnace to be used in the mechanical shop.

Mr. Donald R. Warren of Los Angeles, California—$5,000 for the making of a topographical map of the campus, to facilitate future campus improvements.

Mrs. Ludovica Graham of Reno—contribution to the furnishing of the Student Center.

1946—

Mr. Jesse Whited, a former resident of Wadsworth—his entire estate, which is in excess of $25,000; interest to go to his wife as long as she lives, and the principal to go to the University of Nevada unrestricted.

An anonymous donor—addition of $2,000 to the President's Discretionary Fund.

The 20th Century-Fox Company—$1,000 to be added to the President's Discretionary Fund as a token of appreciation for the privilege of filming "Margie" on the University campus.

Mr. Marty Hess of Sonoma, California—twenty shares of non-assessable stock in the Callahan Zinc-Lead Company, the proceeds to be used to purchase specimens for the Mackay Museum.

Rev. J. L. Harvey of Carson City—$25 for the President's Discretionary Fund.

Admiral James Fife, L.L.D., University of Nevada, 1946—$250 to be used for cultural purposes; Samuria Sword (Japanese) as a souvenir of World War II, and $100 for the President's Discretionary Fund.

An anonymous donor—$200 for specific purposes in the Department of English.

Mrs. Blanche Preston of Reno—$50 for the purchase of library books in memory of her daughter, Clovis Alberta Preston.

Admiral Joseph Redman, L.L.D., University of Nevada, 1946—$300 for the Student Union Building Fund and $100 for a scholarship.

Coach Jim Aiken—$25 for the Student Union Building Fund.

Miss Dorothy Crandall, alumnus and former faculty member—$25 for the Student Union Building Fund.

Mr. Lloyd C. Douglas of Las Vegas—$500 for the Student Union Building Fund.

Reno Lodge of Elks—Furniture for the Student Center.

Mrs. Ethel Lunsford Frost, an alumnus—$100 for the Student Union Building Fund.

Dr. Leo D. Nannini, an alumnus—$25 for the Student Union Building Fund.

Mr. Irvin S. Slomka of Reno—$50 for the Student Union Building Fund, in memory of his mother, Mathilde Slomka.

Mr. Cecil W. Creel of the University of Nevada—$100 for the Student Union Building Fund, in memory of his son, Marshall Creel.

Mrs. B. Shogren of Reno—$100 for the Student Union Building Fund, in memory of her son, George Shogren.

Mrs. Albert E. Hilliard of Reno—$100 for the Student Union Building Fund.

Mr. Frandsen Loomis, an alumnus—$25 for the Student Union Building Fund.

Dr. Herman Marcus of San Francisco, California—$5 for the Student Union Building Fund.

Mrs. Edward C. North of Los Angeles, California—$10 for the Student Union Building Fund.

June and Leon Tachinin, Evelyn and Frank Buell—$1 each for the Student Union Building Fund.

Mr. Arthur Wellesley of Washoe Valley—$100 for the Student Union Building Fund.

Mr. Donald R. Warren of Los Angeles, California—$100 for a student loan fund.

Mr. William E. Goodfellow of Reno—$50,000, which has been invested in government bonds; the interest derived to be used for student loans.

Mr. Raphael Herman of Reno—$50,000 to establish the "Raphael Herman and Norman B. Herman Student Aid Foundation" as a memorial to himself and his brother.

A friend of the University and his wife—establishment of a

trust fund of $20,000, the interest on which is to be used as scholarships to needy, deserving students in the Mackay School of Mines.

Mrs. Edith W. Albert—an additional $103 to the Henry Albert Fund, the proceeds to be used for additional Senior Public Service prizes.

The College of Arts and Science

Aim

The aim of the College of Arts and Science is twofold:

1. To lay a foundation for the professions, both learned and technical, and
2. To increase knowledge in and sympathy with the broader and cultural aspects of life.

Admission Requirements

For admission requirements, entrance subjects and the number of credits belonging to each, see Requirements, Index.

Requirements for a Baccalaureate Degree in Arts and Science

In order to be recommended for the degree of Bachelor of Arts[1] a candidate must, first, have satisfied the requirements for admission; and, second, have gained credits in prescribed and elective courses aggregating 126 semester units, of which at least 40 must be in courses numbered 50 or above. These units are to be distributed as follows:

I. From two to six units in military and physical education as required by the University, and political science 79–80 as required by the State law.

II. A minimum of six units in English 1–2[2] shall be required of all students.

III. A minimum of sixteen units[3] in each of the three groups named below shall be required of freshmen and sophomores:

Group 1. French, German, Italian, Latin, and Spanish. Four entrance units in not more than two languages will meet this requirement.

A single year in a language will not be counted toward meeting the requirements unless one semester of that language be taken in college.

[1]Students who have majored in mathematics or science may on application to the Dean be granted the degree of Bachelor of Science.

[2]Subject to provisions stated under English Language and Literature, see Index.

[3]The fulfillment of these group requirements by substitution of high school units will, however, not reduce the number of regular college units required for graduation below 126.

With three entrance units the requirements are three college credits in the same language or course 1–2 in another language.

With two entrance units: Course 3–4 in the same language or course 1–2 in another language.

With one entrance unit: Courses 2 and 3–4 in the same language.

With no entrance credit: Courses 1–2 and 3–4 in any one foreign language.

GROUP 2. History, political science, economics, sociology, philosophy, psychology, and for normal school graduates, education.

Each unit of high school history or social science, except commercial geography or commercial law, may be used to decrease the requirement in this group by four units, provided such decrease shall not exceed eight units.

GROUP 3. Mathematics, physics, chemistry, botany, zoology, geology and astronomy.

Each unit of high school science except general science and each year of high school mathematics, except first year algebra and plane geometry may be used to decrease the requirements of this group by four units.

IV. At least one major and one minor as described under Junior and Senior Requirements.

The specific group requirements under III, above, have been made not only to insure for each student an acquaintance with the different fields of knowledge but to form what is believed to be a sounder basis for a somewhat greater specialization during the junior and senior years. For this reason, these requirements should be completed during the freshman and sophomore years.

Freshman Year

First Semester	*Units*	*Second Semester*	*Units*
Military and Physical Education	½ to 1½	Military and Physical Education	½ to 1½
English 1	3	English 2	3
Foreign language, Social science, Natural science or mathematics, Elective	12 or 11	Foreign language, Social science, Natural science or mathematics, Elective	12 or 11
	15½		15½

Sophomore Year

First Semester	*Units*	*Second Semester*	*Units*
Military and Physical Education	½ to 1½	Military and Physical Education	½ to 1½
Foreign language, Social science, Natural science or mathematics, Elective	15 or 14	Foreign language, Social science, Natural science or mathematics, Elective	15 or 14
	15½		15½

Courses open to freshmen and sophomores which may be used to fulfill the above requirements in the social science and natural science groups are listed below. In general, odd numbers are used for first-semester and even numbers for second-semester courses:

GROUP 2—Social Science—
- Economics 7, 10
- History 1–2
- Philosophy 1, 7, 8
- Political Science 3–4
- Psychology 2

GROUP 3—Natural Science or Mathematics—
- Botany 1
- Chemistry 3–4, 7–8
- Mathematics 5, 8, 11, 13
- Physics 1a–2a, 1b–2b, 7, 9–10
- Zoology 1, 2, 57, 58

Subjects requiring a prerequisite or not open to freshmen:
- Business Adm. 41, 43, 44, 47
- Economics 1–2
- History 5–6
- Philosophy 21, 22
- Political Science 5–6
- Psychology 5, 6, 10, 14, 40
- Sociology 1
- Botany 21, 22, 26
- Chemistry 9–10
- Geology 1, 2, 10, 11, 12, 14
- Mathematics 14, 15–16, 18, 20, 22, 23–24
- Physics 3–4, 5–6
- Zoology 9, 11, 22

Students who, upon their initial registration in the University, are over 26 years of age are excused from physical education and military.

No course with the number of 50 or more will be open to freshmen or sophomores without the written recommendation of the head of the department and the approval of the Dean.

When students transfer to the College of Arts and Science from other colleges, they will be considered deficient in as many hours in arts and science as they are deficient in the college from which they transferred.[1]

No student may transfer from the College of Agriculture or the College of Engineering to the College of Arts and Science unless he be a regular student in the college from which he transfers.

Courses given primarily in other colleges of the University may be taken by arts and science students, but not to exceed twenty units of such work shall be counted for arts and science degrees.

Except as otherwise specified, all students, including transfers, before receiving the bachelor's degree from the College of Arts and Science must have fulfilled the above requirements.

JUNIOR AND SENIOR REQUIREMENTS

The function of the College of Arts and Science is three-fold: to provide for a broad cultural education, to prepare secondary

[1]The hour requirement for graduation from the College of Engineering is greater than that of either arts and science or agriculture. Engineers transferring to either of these two colleges must make 2½ more than the 126 hours required for graduation from arts and science and agriculture, respectively, for each semester they have been enrolled in engineering.

school teachers and to prepare specialists. To accomplish these purposes, candidates for the baccalaureate degree must select courses totaling not less than forty hours' work in courses numbered 50 or above. These courses must be selected from a group of departments so as to include at least a major and a minor.

The combined work of the two or three departments should represent a unity of aim. The particular grouping, however, will depend upon the particular aim of the student. For example, a student making some one language his major may find it desirable to elect a considerable amount of history. A student planning to study medicine should elect a major in biology or chemistry, but may find it desirable to take additional work in physics. Those intending to study law, should elect a major in political science or economics, but may find it desirable to take advanced work in English. Students taking a science major will generally find it profitable to have a good reading knowledge of French and German.

For a major not more than 27 credits may be required within a department of which at least 12 credits must be in courses numbered 50 or above.

For a minor not more than 18 credits may be required within a department of which in arts at least 6 credits and in science at least 4 credits must be in courses numbered 50 or above.

The specific requirements for majors and minors in the different departments will be found in the description of courses of study under their respective heads in the courses of instruction.

It is advisable that students should plan their work for the junior and senior years as early as the sophomore year, in order that the studies then elected may fit in with their later work. At the beginning of the junior year, each student must give the Dean written notice of his selection of major and minor departments; such selection shall bear the approval of the instructors concerned.

Any student after electing his major and minor departments may, with the consent of the department concerned and of the Dean, change his major department or major and minor departments, as the case may be, provided he complies with all the requirements in the case of the new major and minor departments.

The remaining units necessary to make a total of 126 may be freely elected from any department, or, subject to the limit of twenty units named above, from the other colleges of the University.

Requirements for the Degree of Bachelor of Science in Chemistry or in Chemical Technology

The following courses of study are designed for students looking toward the field of chemistry or of chemical engineering as a profession. They are intended to fit students to enter directly into industrial work or to prepare them for more advanced study in chemistry or in chemical engineering.

Certain electives are provided in order to fill the needs of students interested in the different branches of chemistry. These electives, therefore, are subject to the approval of the chairman of the department, and should be chosen in consultation with him.

Freshman Year

First Semester	*Units* Chem.[1]	Chem. Tech.[2]	*Second Semester*	*Units* Chem.[1]	Chem. Tech.[2]
Chemistry 7	4	4	Chemistry 8	4	4
English 1	3	3	English 2[3]	3	3
Mathematics 15	5	5	Mathematics 16	5	5
Military 1	1	1	Military 2	1	1
Social Science	3	..	Social Science	3	..
Genl. Engineering 5	..	2	Mechanical Arts 3	..	2
	16	15		16	15

Sophomore Year

First Semester	*Units*		*Second Semester*	*Units*	
Chemistry 9	4	4	Chemistry 10	4	4
Mathematics 23	3	3	Mathematics 24	3	3
Physics 3	4	4	Physics 4	4	4
Physics 5	1	1	Physics 6	1	1
Econ. 1 or Bus. Adm. 41	3	..	Econ. 2 or Psych. 5	3	..
Bus. Adm. 41	..	3	Psychology 5	..	3
Military 3	1	1	Miltiary 4	1	1
	16	16		16	16

Junior Year

First Semester	*Units*		*Second Semester*	*Units*	
Chemistry 51	4	4	Chemistry 52	4	4
German 1	5	5	German 2	5	5
Chemistry 71	3	..	Chemistry 72	3	3
Chemistry 95	½	..	Chemistry 96	½	..
Mathematics 55	..	3	Bus. Adm. 66	..	3
Chemistry 64	..	2	E. E. 24	..	2
Elective	3½	3	Elective	3½	..
	16	17		16	17

[1]Refers to requirements for Bachelor of Science in Chemistry.
[2]Refers to requirements for Bachelor of Science in Chemical Technology.
[3]Subject to provisions stated under English Language and Literature, see Index.

Senior Year

First Semester	*Units*		*Second Semester*	*Units*	
Chemistry 83	4	4	Chemistry 84	4	4
German 9	3	3	German 10	3	3
Chemistry 95	½	½	Chemistry 96	½	½
Political Science 79	1	1	Political Science 80	1	1
Chemistry 99	2	..	Chemistry 100	2	..
M. E. 54 (Thermo)	..	3	M. E. 64	..	3
C. E. 72	..	3	Chemistry 94	..	3
Chemistry 75	3	..	Chemistry 92	2	..
Elective	2½	1½	Elective	3½	1½
	16	16		16	16

In addition to the above course of study, students will be required to fulfill the regular University requirements in physical education.

The Course in Journalism

In its four-year professional Course in Journalism, the University of Nevada offers approved preparation for the journalistic vocations.

Based on the principle that a well-rounded education coupled with training in journalism is the best foundation for the profession, the Course in Journalism provides study in language, literature, the natural sciences, the social sciences, and the aesthetics, as well as in journalism.

While designed to prepare chiefly for general newspaper and magazine work, the Course in Journalism is arranged to enable the student to fit himself, in addition, for special journalistic activities, such as advertising, freelance writing, public relations work, high school publication supervision, and so forth.

To complete the Course in Journalism, the student must present among the 126 units required for graduation:

1. Twenty-seven credit hours in journalism, including journalism 21–22, news gathering and writing (6 credits); journalism 51–52, news editing (4 credits); journalism 53, the evolution of the newspaper as a social institution (3 credits); journalism 72, the law of the press (1 credit); and journalism 81–82, newspaper internship (4 credits).

   In their sophomore, junior, and senior years students specializing in journalism are advised to include Journalism 31, 32, 61, 62, 91, 92, in their schedules whenever possible in order to build up a background of the news of each year.

2. Twelve credit hours in English literature.

3. Twenty-five credit hours in the social sciences (history, political science, economics, business, sociology, psychology, and philosophy), selected so that they represent at least five of these subjects.

4. Five credit hours in the aesthetics.

5. The freshman and sophomore requirements of the College of Arts and Science.

6. Subjects required of all candidates for graduation from the University of Nevada.

To complete the major in journalism or The Course in Journalism, a student must earn an average of *at least* two grade points in his courses in journalism.

University credits acquired in meeting the freshman and sophomore arts and science requirement in the social sciences may be counted toward this group requirement in the Course in Journalism.

In choosing subjects to meet the group requirements of the Course in Journalism, the student will be guided by the professor of journalism.

In each group, the following courses will be found to best furnish the student with a comprehensive background. *Those starred are especially valuable:*

Journalism—31*–32*, 54*, 56*–57*, 61*–62*, 65*–66*, 67*, 68*, 75*, 79*, 86*, 93*–94*.

English Literature—30*–31*, 41*–42*, 68–69, 70*–71*, 71A*, 72–73, 74, 75*–76*, 77*, 80, 80A, 87–88, 91–92.

Social Science:
Business—43–44, 47, 68*, 71*–72*.
Economics—1*, 2*, 7*, 10*, 17, 51, 64*.
Geography—15*.
History—1*–2*, 5*–6*, 59*–60*, 63*–64*, 69*, 70*, 81*–82*, 83*–84*.
Library Science—35.
Philosophy—1*, 51, 52, 53*–54*, 61, 82.
Political Science—3*–4*, 5*–6*, 68*, 77, 83*–84*.
Psychology—5*, 10, 51*, 52, 55*, 57*, 65*, 70.
Sociology—1*, 2*, 50, 70*, 71*, 79*, 80*, 81, 83.

The Aesthetics:
Art—1–2, 5–6, 55*–56*.
English—11–12, 21–22, 53–54, 81–82.
Music—9, 10, 57, 58.
Philosophy—55.

In general, the course for the four years will follow this outline, in which certain advanced journalism courses not indicated are represented as electives.

Freshman Year

First Semester	*Units*	*Second Semester*	*Units*
Journalism 1	2–3	Journalism 2	2–3
English 1	3	English 2	3
Group 1 elective (if needed)	3–5	Group 1 elective (if needed)	3–5
Groups 2 and 3 electives	4–7	Groups 2 and 3 electives	4–7
Military and physical education	½–1½	Military and physical education	½–1½
Electives	—	Electives	—
	15½		15½

Sophomore Year

First Semester	*Units*	*Second Semester*	*Units*
Journalism 21	3	Journalism 22	3
Journalism 31	1–2	Journalism 32	1–2
Group 1 elective (if desired)	3	Group 1 elective (if needed)	3
Groups 2 and 3 electives (as required)	7–8	Groups 2 and 3 electives (as required)	7–8
Elective or English literature	2–3	Elective or English literature	2–3
Electives	....	Electives	....
	16		16

Junior Year

First Semester	*Units*	*Second Semester*	*Units*
Journalism	5–10	Journalism	5–10
English literature	2–3	English literature	2–3
Social sciences	5	Social sciences	5
Political science 79	1	Political science 80	1
Electives	....	Electives	....
	16		16

Senior Year

First Semester	*Units*	*Second Semester*	*Units*
Journalism 81	2	Journalism 82	2
Journalism	5–10	Journalism	5–10
English literature	2–3	English literature	2–3
Social sciences	4	Social sciences	4
Electives	....	Electives	....
	16		16

Students preparing for a career in advertising should, in addition to the courses in the major in journalism, elect marketing, merchandising, commercial art, and the psychology and economics of advertising.

In addition to the journalism laboratory facilities on the campus, students in journalism at the University of Nevada enjoy the use of the offices and plants of the Reno newspapers, the national press association bureaus, a radio station, and commercial printing and engraving plants in the city.

Members of the staffs of the Reno Evening Gazette, the Nevada State Journal, the Reno bureaus of the United Press and the Associated Press, The Carson City Nevada Appeal, the Wilson Advertising Agency, the Nevada Engraving Company, Radio Station KOH, the Reno Printing Company, A. Carlisle and Company of Nevada and the Silver State Press generously cooperate with the Courses in Journalism, not only in making their facilities available but in the instruction itself.

Subjects in journalism, credit hours, semesters offered, requirements for the major and minor, and the faculty in journalism are listed under the Department of Journalism.

Prelegal Course

Students who intend to study law will find it advantageous to plan their college work in such a way as to permit the inclusion of essential prelegal subjects and to satisfy University requirements for the B.A. degree.

The requirements of the leading law schools usually embrace: (1) social sciences, history, political science, economics, business and sociology; (2) foundation courses in English, including debate and public speaking; (3) logic; (4) psychology; and (5) Latin, French, or German.

For advice relative to the organization of his work, the student is referred to Professors Inwood and Thompson, who are designated advisers of the prelegal students.

The leading law schools prefer that their students shall have completed four years of college work before entrance. Some, however, admit students upon the completion of three years of college work. The University will confer the degree of Bachelor of Arts upon any student of high rank who, after completing three years of approved work in this University, shall enter a law school of approved standing and shall complete worthily one year's work in such law school. (A student of high rank is one who stands above the average of his class.) In order to receive the degree in this way the student must, at the end of his first year in the law school, present a signed testimonial from the Dean of the Law School to the Dean of the College of Arts and Science, such testimonial to include a statement of courses taken, grades achieved, and a recommendation that the degree be granted.

Premedical Courses

The requirements for admission to Class A medical colleges vary from a minimum of two years of standard college work to the possession of a bachelor's degree. Students contemplating studying medicine should communicate early in their undergraduate course with the Dean of the particular medical college they may wish to enter in order to learn the exact entrance requirements at the time they expect to enter. Practically all medical colleges prescribe the same minimum of subject matter which includes general zoology, vertebrate anatomy, embryology, general inorganic chemistry, qualitative analysis, organic chemistry, general physics, and a reading knowledge of French or German. Quantitative analysis is also required by some and advised by others. Plane trigonometry and college algebra are required by a few schools and strongly advised to insure an adequate foundation for bio-physical and bio-chemical studies in the medical school.

Recommended Premedical Course and Predental Courses

To permit the inclusion of all the essential premedical subjects and to satisfy the University requirements for the B.A. degree, the following arrangement of the course of study has proved a desirable one:

Freshman Year

First Semester	*Units*	*Second Semester*	*Units*
English 1	3	English 2	3
General Chemistry	4	General Chemistry	4
Botany 1	3	Zoology 2	4
Military and Physical Education	½–1½	Mathematics 13	2
Mathematics 11	3	Military and Physical Education	½–1½
Electives	..	Electives	..
	15½		16½

As electives the student should choose either the continuance of French or German if he has some entrance credits in these languages or he may elect a social science, preferably psychology in the second semester.

Sophomore Year

First Semester	*Units*	*Second Semester*	*Units*
German 1	5	German 2	5
Chemistry 9	4	Chemistry 10	4
Zoology 9	5	Military and Physical Education	1½
Military and Physical Education	1½	Electives	..
Electives	..		
	15½		15½

Junior Year

First Semester	*Units*	*Second Semester*	*Units*
German 9	3	German 10	3
General Physics	4	General Physics	4
Chemistry 51	4	Chemistry 52	4
Political Science 79	1	Zoology 64	4
Electives	4	Political science 80	1
	16		16

Senior Year

Elective or approved credential from professional school.

The University will confer the degree of Bachelor of Arts or Bachelor of Science upon any student of high rank who, after completing three years of approved work in this University, shall enter a medical school rated Class A by the American Medical Association, and shall complete worthily one year's work in such medical school. In order to receive the degree in this way, the student must, at the end of his first year in the

medical school, present a signed testimonial from the Dean of the Medical School to the Dean of the College of Arts and Science, such testimonial to include a statement of courses taken, grades achieved, and a recommendation that the degree be granted.

Predental students are advised to take the above premedical course with possible minor modifications. Such students may then become eligible for the degree of Bachelor of Arts or Bachelor of Science from this University following a comparable procedure to that outlined for medical students above. Schools of dentistry require only two years of college training. However, a two-year course at this University could not include all of the required courses, and could not make possible the obtaining of a degree from this university.

For further advice relative to premedical work, the student is referred to the premedical advisers.

Premedical Technologist Course

Medical Technologist or Clinical Laboratory Technician training is available at many hospital laboratories of the country. The following three-year curriculum includes the uniformly required and strongly advised courses for admission to such training schools, as well as certain electives and courses required for graduation. Electives must satisfy the Arts and Science freshman and sophomore graduation requirements.

Freshman Year

First Semester	*Units*	*Second Semester*	*Units*
English 1	3	English 2	3
Chemistry 7	4	Chemistry 8	4
Botany 1	3	Zoology 2	4
Physical Education 1	1	Mathematics	2
Elective	4½	Physical Education 2	1
		Elective	1½
	15½		15½

Sophomore Year

First Semester	*Units*	*Second Semester*	*Units*
Chemistry 9A	3	Chemistry 26	3
Zoology 11	4	Zoology 22*	2
Psychology 5	3	Botany 70	3
Physical Education 3	½	Sociology 2	3
Elective	5	Physical Education 4	½
		Elective	4
	15½		15½

Junior Year

First Semester	Units	Second Semester	Units
Bacteriology 51	4	Zoology 68*	2
Physics 1	4	Physics 2	4
Political Science 79	1	Zoology 58	5
Elective (50 or above)	7	Political Science 80	1
		Elective (50 or above)	6
	16		16

*Recommended, but not required.

A student completing the three-year premedical technologist course may be granted a Bachelor of Arts or a Bachelor of Science degree from the University of Nevada when he or she has, in addition, completed the twelve to eighteen months' technologist training course and received a certificate or diploma from the laboratory where the training was taken. A testimonial similar to that described under the premedical course must be presented from the director of the medical technology school. The only type of laboratory training acceptable will be that obtained from a medical technology school approved by the Council of Medical Education and Hospitals of the American Medical Association. The laboratories of Dr. Lawrence Parsons at St. Mary's Hospital in Reno have been approved (December 1945) by the Council of Medical Education and Hospitals of the American Medical Association for the training of clinical laboratory technicians.

Recommended Three-Year Prenursing Course

Freshman Year

First Semester	Units	Second Semester	Units
Botany 1	3	Zoology 2	4
English 1	3	English 2	3
Chemistry 7	4	Chemistry 8	4
History 1	3	History 2	3
Physical Education 1	1	Physical Education 2	1
Elective	1½	Elective	½
	15½		15½

Sophomore Year

First Semester	Units	Second Semester	Units
Zoology 11	4	Foreign Language	5
Foreign Language	5	Sociology 2	3
Sociology 1	3	Physical Education 4	½
Psychology 5	3	Elective	7
Physical Education 3	½		
	15½		15½

Junior Year

First Semester	*Units*	*Second Semester*	*Units*
Bacteriology 51	4	Zoology 58	5
English or Foreign Language	3	Home Economics	3
Elective (Courses 50 or above	8	English or Foreign Language	3
Political Science 79	1	Elective (Courses 50 or above)	6
		Political Science 80	1
	16		16

A student completing the three-year prenursing course may be granted a Bachelor of Arts or a Bachelor of Science degree from the University of Nevada when she has, in addition, completed 32 units of acceptable academic work in a recognized school of nursing.

Wildlife Management Course

The four-year course outlined below aims to give both a liberal education and a foundation for work in the fields of State Fish and Game Management, the Federal Fish and Wildlife Service, and other Federal branches such as the National Parks Service and the Geological Survey which do biological work. Graduate study may be necessary to qualify for certain positions. Electives are to be chosen to satisfy the Arts and Science requirements for the Bachelor's Degree. This course will satisfy the requirements for a major in zoology or a minor in botany.

Freshman Year		*1st Sem.*	*2d Sem.*
Chemistry 3–4	General Inorganic Chemistry	4	4
English 1–2	Composition and Rhetoric	3	3
Botany 1	General Botany	3	..
Zoology 2	General Zoology	..	4
Mathematics 22	Agricultural and Biological Mathematics	..	4
Military and Physical Education		1½	1½
Electives		4	..
		15½	16½

Sophomore Year		*1st Sem.*	*2d Sem.*
Foreign Language	First Year	5	5
Zoology 9	Comparative Anatomy	5	..
Zoology 60	Fish, Reptiles, and Birds	..	3
Botany 22	Taxonomy	..	4
Military and Physical Education		1½	1½
Electives		4	2½
		15½	15½

Junior Year		*1st Sem.*	*2d Sem.*
Zoology 59	General Entomology	3	..
Zoology 62	Mammals	..	3
Botany 54	Agrostology	..	3
Botany 91	Special problems in seed identification	3	..
Botany 92	Special problems in wildlife food plants	..	3
Geology 1	Physical geology	3	..
Political Science 79–80	Constitutions of the U. S. and Nevada	1	1
Electives		6	6
		16	16

Senior Year		*1st Sem.*	*2d Sem.*
Zoology 63	Game management	3	..
Zoology 91	Special problems in bird farm management	3	..
Zoology 92	Special problems in fish culture	..	3
Zoology 50	Genetics	..	2
Botany 75–76	Ecology	4	4
Electives		6	7
		16	16

Suggested electives are: Animal Husbandry 58; Botany 55; Economics 1, 2; English 11, 12, 41, 42; Psychology 5.

Teachers' Diplomas

For the requirements for a teacher's diploma, see *School of Education,* Index.

Recommended Course for Social Workers

Students who plan to engage in social work will find it advantageous to pursue an undergraduate course designed for this particular purpose. Some branches of the services provided for under the terms of the Social Security Act require that workers shall have had training in a recognized school of social work; others do not. This makes it desirable that the undergraduate work be planned to meet the entrance requirements of schools of social work. The following suggested undergraduate curriculum meets these requirements:

Freshman Year

First Semester	*Units*	*Second Semester*	*Units*
Chemistry 3	4	Chemistry 4	4
English 1	3	English 2	3
Foreign Languages	5	Foreign Languages	5
Military and Physical Educ.	½–1½	Military and Physical Educ.	½–1½
Electives	..	Electives	..
	15½		15½

Sophomore Year

First Semester	*Units*	*Second Semester*	*Units*
Foreign Languages	3	Foreign Languages	3
Economics 1	3	Economics 2	3
Psychology 5	3	Psychology 40	3
Sociology 1	3	Psychology 14	2
Military and Physical Educ.	½–1½	Sociology 2	3
Electives	..	Military and Physical Educ.	½–1½
		Electives	..
	15½		15½

Junior Year

First Semester	*Units*	*Second Semester*	*Units*
Psychology 51	3	Psychology 10	2
Political Science 53	3	Political Science 54	3
Sociology 79	2	Sociology 50	2
Sociology 81 (or 83)	2*	Sociology 84 (or 86)	2*
Zoology 57	3	Mathematics or Science	3
Electives	3	Electives	2
	16		16

Senior Year

First Semester	*Units*	*Second Semester*	*Units*
Psychology 55	3	Psychology 62	3
Political Science 83	2	Political Science 84	2
Political Science 79	1	Political Science 80	1
Sociology 83 (or 81)	2*	Political Science 76	2
Sociology 71	3	Sociology 86 (or 84)	2*
Electives	5	Sociology 90	3
		Electives	3
	16		16

The following electives are recommended: Econ. 64, History 1–2, English 11–12, Philosophy 7–8–22, Math. 20, Home Ec. 50, Psychology 59–65.

This program provides a Major in Sociology and a Minor in Psychology; this is preferred by many graduate schools of social work and is acceptable to all.

It is assumed here that no part of the mathematics, science or foreign language requirements has been met before entering the University. Those students who have met some part or all of these requirements will have a correspondingly larger number of electives.

M. J. Webster has been named as adviser for students wishing to prepare for social work.

*Sociology 81 and 84 offered in odd numbered years. Sociology 83 and 86 offered in even numbered years.

Course of Study Leading to the Degree—Bachelor of Science in Business Administration

Freshman Year

First Semester	*Units*	*Second Semester*	*Units*
Economics 7	2	English 2	3
English 1	3	Foreign Language	5
Foreign Language	5	Mathematics or Science	3–5
Mathematics or Science	4–5	Military and Physical Educ.	½–1½
Military and Physical Educ.	½–1½	Electives	--
	15½		15½

Sophomore Year

First Semester	*Units*	*Second Semester*	*Units*
Economics 1	3	Economics 2	3
Business Administration 41	3	Business Administration 44	3
Business Administration 43	3	Foreign Language	3
Foreign Language	3	Mathematics or Science	5–6
Mathematics or Science	2–3	Military and Physical Educ.	½–1½
Military and Physical Educ.	½–1½		
	15½		15½

Junior Year

First Semester	*Units*	*Second Semester*	*Units*
Business Administration 55	3	Business Administration 56	3
Economics 61	3	Business Administration 68	3
Mathematics or Science	3	Political Science 80	1
Political Science 79	1	Electives	9
Electives	6		
	16		16

Senior Year

First Semester	*Units*	*Second Semester*	*Units*
Economics 73	3	Business Administration 74	3
Business Administration 65	3	Electives	13
Business Administration 47	3		
Electives	7		
	16		16

Electives shall include a minimum of twelve hours selected from any other courses in economics or business administration. This selection should accord with the individual needs of the student. A minor must be completed in accordance with the requirements of the College of Arts and Science. For students who expect to enter a business career, a minor in mathematics or psychology is recommended; for those expecting to teach commercial subjects a minor in education is recommended; these latter students should elect Business Administration 51 and Business Administration 53 to be eligible for certification.

The program above is based upon the assumption that no part of the Mathematics-Science or Foreign Language requirements

has already been met. Those students who have already met a part or all of these requirements will have a correspondingly larger number of electives. All requirements of the College of Arts and Science must be met.

58. SUMMER SURVEYING. This course starts the first day after Commencement. The work consists of topographic surveying, involving careful base-line measurement and triangulation for control, followed by topographic surveying by plane table method. Mine surveying including both surface and underground workings as surveyed by each student. Most of the computations of field surveys are made during the evening following each day's work. Prerequisite: C. E. 41 and 42. 241 242

Four weeks. Four credits. Fee $30, Given on alternate years.

SCHOOL OF EDUCATION

Aim

The School of Education aims principally to provide for undergraduate students, on the foundation of the broad and liberal education furnished them by the College of Arts and Science, a professional course of studies to equip them for successful teaching in the public schools of the State. To a limited extent it seeks also to offer advanced training for teachers in service who desire either to increase their efficiency in their present positions or to prepare for new and larger positions of responsibility.

For the welfare of the State it aims to provide well-trained teachers for the schools and to stimulate in the teaching personnel and the public a deeper interest in the promotion of good teaching practices and sound educational policies.

Types of Training Provided

1. Elementary School Teaching. Because the teaching positions in Nevada are predominantly in the elementary schools, the most urgent responsibility of the School of Education is the preparation of teachers for rural and town elementary schools. It meets this responsibility by offering a broad training in the principles of elementary education and in teaching methods that equip the student for either the diverse tasks of the one-room school or the more specialized work of a single-grade room. Supervised teaching which constitutes the heart of all the teacher-training work is possible in the primary, intermediate, or junior high school grades.

2. High School Teaching. For students who desire to qualify for high school teaching, the School of Education provides in the junior and senior years courses in the principles and methods of secondary education and in supervised teaching in the important academic subjects in the high school. Such students must also present a major and a minor in high school subjects.

3. Advanced Professional Training. Advanced courses are offered in the evening and during Summer Sessions for the benefit of teachers in service who desire to renew certificates, to qualify for a higher grade of certificate, or to work for a Master of Arts degree.

Applicants for the Master's degree proposing to submit Education as a major or a minor should confer with the Dean of the School of Education before enrolling for graduate credit in any

course. Failure to do so may mean enrollment in a course not approved for the Master's degree.

History and Organization

Training of teachers as a function of the University is almost as old as the University itself. In the first year of the University's life at Reno there were no courses for teachers, but before the year was over the Legislature passed an Act, approved February 7, 1887, providing for the establishment in the University of "a school for the instruction of teachers," and specifying that those worthily completing the course or a prescribed part of it should be granted teachers' certificates by the State Board of Education. In accordance with this Act the University established a normal course with the opening of the fall term in 1887.

The policy inaugurated by the Act of 1887 of granting certificates on the completion of the courses set up by the University has been consistently followed to the present time. There are now two distinct courses in operation, one for high school teachers and one for elementary teachers.

Courses for High School Teachers' Certificates

It is possible to qualify for the high school teachers' certificate by either of two methods:

I. The University High School Teachers' Diploma

Students who meet the requirements for this diploma will be granted by the State Board of Education a certificate to teach in the high school any subject approved by the local school board, except the vocational subjects subsidized by the State and National government. For these vocational subjects special certificates are required as indicated below.

To qualify for the University High School Teachers' Diploma, the student must meet the requirements for the B.A. or the B.S. degree and must complete 18 hours of professional work in education. For students who are not candidates for the vocational certificate, these 18 hours consist of the following courses: psychology 5 and 6, and education 24, preferably in the sophomore year; education 60 and 2 units in education 64, 65, or 66, preferably in the junior year; education 71, 75, 76, and 82, all of which must be taken in the senior year. One semester of practice teaching in the elementary school may be substituted for education 75 or for education 76.

Vocational Certificates. Students who have taken the required courses in agriculture or home economics and receive their degrees in those subjects may qualify for both the University High School Teachers' Diploma and for a vocational certificate.

For the home economics certificate the students are required to take the following courses: psychology 5 and 6, education 24, 60, 75, 76, 82, 88, and 89, and, following graduation, to do two weeks of cadet teaching under the direction of the State Department in one of the high schools of the State.

For the agriculture certificate the students are required to take the following courses: psychology 5 and 6, education 24, 60, 75, 76, 82, 86, and 87.

Major in Commercial Education. Students desiring to qualify as teachers of commercial subjects in high school should elect the major in commercial education as listed under the courses of instruction of the Department of Economics, Business, and Sociology, and should complete the following courses in education: 6, 24, 60, 66F, 66G, 71, 75, and 76.

II. State Board Requirements

Under the regulations of the State Board of Education a high school certificate may be granted to any applicant who holds a B.A. or a B.S. degree from the University, and who has completed 18 semester hours in the field of professional education, including four semester hours of practice teaching. The majority of the hours in professional training must be in the secondary field.

Courses in the secondary field include psychology 6 and all courses listed under *Secondary Education* in the *Courses of Instruction* in this catalogue.

Courses for Elementary Teachers' Certificate

The most satisfactory course for elementary teaching will require four years and entitle the student to a bachelor's degree. Students entering the University with definite intent to remain four years and to take up teaching upon graduation should recognize that the opportunities in teaching are much more numerous in the elementary than in the secondary field. They should plan, therefore, from the first to follow a curriculum through the four years that will thoroughly equip them for an elementary position. Early consultation with the Dean of the School of Education is urgently recommended to such students.

There are three types of elementary teachers' certificates issued.

I. Based on Four Years of Study

A first grade elementary certificate valid for three years is issued to graduates of the University if they have completed 18 hours of professional courses in education. These 18 hours must include four hours of methods of teaching the elementary school subjects, four hours of practice teaching in the elementary school, and a course in school law.

II. Based on Two Years of Study: The Normal School Diploma

A first grade elementary certificate valid for five years is issued to students who qualify for the normal school diploma. This diploma is granted by the University of Nevada to students who have earned 62 hours of credit in the College of Arts and Science, of which 30 must be professional courses in education. Usually these professional courses should include education 1, 34, 46, and two semesters of practice teaching: education 28, 29, 43, 44, 73, and 74.

For students entering the University with the expectation of qualifying for the normal school diploma in two years, the following program is suggested:

Freshman Year

First Semester	*Units*	*Second Semester*	*Units*
Education 1	2	Education 34	3
English 1	3	English 2	3
Physical Education (Women)	1	Physical Education (Women)	1
Physical Education (Men)	½	Physical Education (Men)	½
Military (Men)	1	Military (Men)	1
Education Electives	5–6	Education Electives	5–6
Other Electives	..	Other Electives	..
	16		16

Sophomore Year

First Semester	*Units*	*Second Semester*	*Units*
Practice Teaching	5	Practice Teaching	5
Education 24	2	Education 46	2
Physical Education	½	Physical Education	½
Military (Men)	1	Military (Men)	1
Political Science 79	1	Political Science 80	1
Education Electives	1–2	Education Electives	1–2
Other Electives	..	Other Electives	..
	16		16

III. Based on One Year of Study

A second grade certificate, valid for three years but not renewable, is issued to students who have earned 31 hours of credit at the University of Nevada, of which 15 hours must be professional courses in education. Students planning to qualify for this certificate will take the courses specified in the first year of the course for the Normal School Diploma, as above, but must take also education 24 and political science 79–80.

The Kindergarten-Primary Certificate

This certificate will be issued to any applicant who holds a B.A. or a B.S. degree from the University and who has completed the prescribed professional work in education and in related subjects as follows:

Education: A total of 30 hours including 24, 28, 20, 34, and choice of 3, 4, 11, 16, 17, 18, 10, 25A, 41, 53, 54, 55.

Music: 1–2 or equivalent to prove ability to sing songs of kindergarten-primary level. The applicant must also pass tests to demonstrate ability to play on the piano music of kindergarten-primary difficulty.

Physical education for women: 1, 2, 3, and 4.

Graduates of the University who complete the above courses will also be entitled to the Normal School Diploma, described above.

Supervised Teaching

All supervised teaching facilities are provided in the public schools of Reno and Sparks through the courtesy of the school authorities in these two cities. By this arrangement students meet typical school problems and secure training for teaching under the most favorable conditions. In every instance the student is assigned to one of the regular teachers in the school system, designated as a cooperating teacher, who assigns to the student the material for teaching, checks his lesson plans, observes his teaching, and gives suggestions for improvement.

Each staff member of the Department of Education is likewise responsible for the supervision of a group of student teachers, making regular visits to observe the student's teaching, and holding conferences with the student and his cooperating teacher concerning the teaching. There is always a close cooperation between the department and the cooperating teacher.

Cooperating Teachers

For Secondary Certification—

Rose Arenaz, B.A., English.
Gladys Cafferata, B.A., English.
Margaret Ernst, B.A., Mathematics.
Karl Gallagher, B.S., Safe Driving.
Kathleen Griffin, B.A., Commercial.
Mildred Klaus, B.A., Commercial.
Andrew Morby, B.A., Spanish.
Nevada Pedroli, B.A., Spanish.
Genevieve Pohlman, B.S., Homemaking.
Mildred Riggle, B.S., Homemaking.
Winifred Thomas, B.S., Related science for homemaking.
Marion Trabert, B.S., Related science for homemaking.

For Elementary Certification—

Winnie I. Black, B.S., second grade.
Julia K. Braa, fifth grade.
E'Lois Campbell, B.A., eighth grade.
Kathryn Clark, B.S., fourth grade.

Edwin Dodson, B.A., seventh grade.
Helen Dunn, B.A., seventh grade.
Inez Gillies, fifth grade.
Marguerite Green, B.A., first grade.
Helen Hanley, fourth grade.
Frances Hawkins, B.A., seventh grade.
Mamie Hildebrand, sixth grade.
Genevieve Johns, B.A., seventh grade.
Zola B. Jordan, first grade.
Virginia Kimerling, B.E., first grade.
Mrs. Catherine Luke, B.A., seventh grade.
Evelyn McClurkin, sixth grade.
Kathryn Martin, B.A., second grade.
Thelma McNair, third grade.
Eleanor Miller, fourth grade.
Isabella Moe, fifth grade.
Marguerite Nelson, second grade.
Robert Paille, B.A., seventh grade.
Virginia Palmer, fourth grade.
Margaret Patrick, B.S., fifth grade.
Edith Peddicord, fifth grade.
Yvonne Rosasco, B.A., eighth grade.
Adelyn Rotholtz, B.A., seventh grade.
Alyce Savage, B. A., fifth grade.
Madeline Shoemaker, sixth grade.
Doris Shaver, B.A., sixth grade.
Emma Smith, fourth grade.
Olivia Treanor, fifth grade.
Betty Vaughn, B.A., first grade.
Vera Zadow Warren, B.S., seventh grade.
Gretchen Whitehead, B.A., eighth grade.

Prerequisites for Supervised Teaching

To protect the interests of the public school children, great care is exercised in according the privileges of supervised teaching to students. Only those students who have shown by their previous record a satisfactory ability in scholarship, dependability and earnestness, and a real interest in the problems of education, are accepted for teaching. Any failure on the part of the student teacher to meet any requirement imposed may result in the immediate forfeiture of his teaching privilege. No person can be granted an opportunity for practice teaching until he has spent at least one semester in courses in the School of Education.

The Teacher Appointment Service

For the purpose of bringing school authorities who are looking for competent teachers into touch with promising candidates, the

School of Education has maintained a teacher appointment service since 1923.

Only those candidates are accepted for enrollment with the appointment service whose ability and character are well known to the Department of Education. For those enrolled the appointment office secures all data possible, both personal and academic, and recommendations from persons in official positions competent to speak of the character or teaching ability of the candidate. This material is kept on file, and on request is sent to interested school authorities.

The only fees charged for the service rendered will be paid by the candidates at the time of enrollment to cover the necessary costs of postage, printing, and stenographic help. For the first set of five papers prepared a charge of $2.50, and for each succeeding set a charge of $1.50 will be made.

The College of Engineering

1. THE MACKAY SCHOOL OF MINES.
2. THE SCHOOL OF CIVIL ENGINEERING.
3. THE SCHOOL OF ELECTRICAL ENGINEERING.
4. THE SCHOOL OF MECHANICAL ENGINEERING.

AIM

The aim of the College of Engineering is to give young men a knowledge of those subjects which form the basis of the mining, mechanical, electrical, and civil engineering professions. The technical courses of study are arranged and directed with the purpose of preparing students not only for immediate usefulness but also for future professional growth. The work is in the form of both lectures and recitations, supplemented by exercises in the drafting room, field, laboratory, and shop.

EQUIPMENT

For the general description of the equipment of the College of Engineering, see Mackay School of Mines, Mechanical Building, Electrical Building, New Engineering Building, Mackay Science Hall, Laboratories for Geology and Mineralogy, Laboratories of the Mining Department, Mining and Geological Museum, and the Chemical Laboratories, in the earlier part of this catalogue.

ADMISSION REQUIREMENTS

An applicant who is deficient in more than two of the required entrance units will not be permitted to enter the Engineering College.

For admission requirements, entrance subjects, and the number of credits belonging to each, see *Requirements for Admission*, Index.

REQUIREMENTS FOR A BACCALAUREATE DEGREE IN ENGINEERING

The degree of Bachelor of Science in (a) Mining Engineering, (b) Metallurgical Engineering, (c) Geological Engineering, (d) Mechanical Engineering, (e) Electrical Engineering, and (f)

Civil Engineering is conferred upon students who have satisfactorily completed the full course in the Schools of (a) Mines, (b) Mechanical Engineering, (c) Electrical Engineering, and (d) Civil Engineering, aggregating 148 semester units in (a); 144 in (b), (c), (d), (e), and (f).

Combination curricula leading to the bachelor's degree in more than one school in the University may be arranged. The minimum requirements shall be one extra year in residence and 30 credit hours of extra work. More work may be necessary if the specific requirements of the department in which the degree is sought have not been met.

The State law of Nevada requires that all candidates for a degree must study, during one University year, the Constitutions of the United States and of the State of Nevada.

College of Engineering

Mackay School of Mines

General Mining Course

		LAB.	LEC.
	Freshman Year—First Semester		
English 1	Composition and Rhetoric	--	3
Chemistry 7	General Inorganic Chemistry	2	2
Mathematics 15	Mathematical Analysis	--	5
Mechanical Engineering 5	Engineering Drawing and Descriptive Geometry	2	--
*Art 1	Freehand Drawing	1	--
Mining 1	Introductory Mining	--	1
Military 1	Basic Course	1	--
Physical Education 1	Developmental Exercises	½	--
			17½
	Freshman Year—Second Semester		
English 2	Composition and Rhetoric	--	3
Chemistry 8	General Inorganic Chemistry	2	2
Mathematics 16	Mathematical Analysis	--	5
Mechanical Engineering 6	Engineering Drawing and Descriptive Geometry	2	--
Geology 10	Engineering Geology	--	3
Military 2	Basic Course	1	--
Physical Education 2	Developmental Exercises	½	--
			18½
	Summer Work		
Mining 5	Practical Mine Work	Four Weeks	

*Courses marked with an asterisk may be substituted by other courses when approved by the Head of the School and the Dean of the College. Such substituted courses, however, must form part of a systematic course of training.

Sophomore Year—First Semester

		LAB.	LEC.
Mathematics 25	Differential Calculus	..	3
Physics 3	Engineering Physics	..	4
Geology 11	Determinative Mineralogy	2	..
Chemistry 9	Quantitative Chemistry	2	2
Geology 2	Historical Geology	..	3
Military 3	Basic Course	..	1
Physical Education 3	Advanced Exercises	½	..
			17½

Sophomore Year—Second Semester

Mathematics 26	Integral Calculus	..	3
Physics 4	General Physics for Engineers	..	4
Metallurgy 4	Engineering Metallurgy	..	2
Geology 12	Blowpipe Analysis	2	..
Geology 14	Descriptive Mineralogy	..	2
Military 4	Basic Course	..	1
Physical Education 4	Advanced Exercises	½	..
Chemistry 10	Quantitative Analytical Chemistry	2	2
			18½

Junior Year—First Semester

Mining 51	Excavation	..	3
Metallurgy 51	Assaying	3	1
Mathematics 55	Analytic Mechanics	..	3
Civil Engineering 41	Plane Surveying	1	2
Geology 51	Petrology	1	1
Elective		..	3
			18

Junior Year—Second Semester

Mining 52	Mine Plant	..	3
Metallurgy 66	Ore Dressing	..	2
Metallurgy 68	Ore Dressing	2	..
Geology 60	Economics Geology Nonmetallic	..	3
Civil Engineering 42	Plane Surveying	2	3
Geology 52 (or Metallurgy 56)	Petrography (Metallography)	2	1
			18

Summer Course

Civil Engineering 58 ..... Summer Surveying ..... Four Credits

Senior Year—First Semester

		LAB.	LEC.
Geology 61	Economic Geology of Metals	..	3
Mining 61	Mining Methods	..	3
Metallurgy 71	Hydro-Metallurgy	1	2
Metallurgy 61	Pyro-Metallurgy, nonferrous metals	..	3
Political Science 79	Constitution of U. S.	..	1
Mining 79, Metallurgy 79, or Geology 79		2	..
Civil Engineering 61	Hydraulics	..	3
			18

Senior Year—Second Semester

		LAB.	LEC.
Mining 72	Mine Administration	..	3
Mining 74	Mineral Industry Economics	..	3
Electrical Engineering 75	Electricity in Mining	..	3
Political Science 80	Constitution of Nevada	..	1
Mining 80, Metallurgy 80, or Geology 80		2	..
Civil Engineering 72	Strength of Materials	..	3
Civil Engineering 74	Metals Testing Laboratory	1	..
Elective		..	2
			18

MACKAY SCHOOL OF MINES

METALLURGY COURSE

Freshman Year—First Semester

		LAB.	LEC.
English 1	Composition and Rhetoric	..	3
Chemistry 7	General Inorganic Chemistry	2	2
Mathematics 15	Mathematical Analysis	..	5
Mechanical Engineering 5	Engineering Drawing and Descriptive Geometry	2	..
Mining 1	Introduction to Mining	..	1
*Art 1	Freehand Drawing	1	..
Military 1	Basic Course	1	..
Physical Education 1	Developmental Exercises	½	..
			17½

Freshman Year—Second Semester

English 2	Composition and Rhetoric	..	3
Chemistry 8	General Inorganic Chemistry	2	2
Mathematics 16	Mathematical Analysis	..	5
Mechanical Engineering 6	Engineering Drawing and Descriptive Geometry	2	..
Geology 10	Engineering Geology	..	3
Military 2	Basic Course	1	..
Physical Education 2	Developmental Exercises	½	..
			18½

Summer Work

Mining 5	Practical Metallurgical Work	Four Weeks

Sophomore Year—First Semester

		LAB.	LEC.
Mathematics 25	Differential Calculus	..	3
Physics 3	Engineering Physics	..	4
Physics 5	Physical Measurements	1	..
Geology 11	Determinative Mineralogy	2	..
Chemistry 9	Quantitative Chemistry	2	2
Military 3	Basic Course	..	1
Physical Education 3	Advanced Exercises	½	..
Elective		..	2
			17½

*See footnote p. 167.

Sophomore Year—Second Semester		LAB.	LEC.
Mathematics 26	Integral Calculus	..	3
Physics 4	General Physics for Engineers	..	4
Physics 6	Physical Measurements	1	..
Metallurgy 4	Engineering Metallurgy	..	2
Geology 12	Blowpipe Analysis	2	..
Geology 14	Descriptive Mineralogy	..	2
Chemistry 10	Quantitative Chemistry	2	2
Military 4	Basic Course	..	1
Physical Education 4	Advanced Exercises	½	..
			19½

Junior Year—First Semester			
Metallurgy 58	Ferrous Metallurgy	..	2
Metallurgy 51	Fire Assaying	3	1
Mathematics 55	Analytic Mechanics	..	3
Civil Engineering 41	Plane Surveying	1	2
Political Science 79	Constitution of U. S.	..	1
Elective		..	3
			16

Junior Year—Second Semester			
Chemistry 80	Introduction to Physical Chemistry	..	2
Metallurgy 50	Metallography	2	1
Metallurgy 60	Ore Dressing	..	2
Metallurgy 68	Ore Dressing	2	..
Geology 60	Economics Geology Nonmetallic	..	3
Civil Engineering 42	Plane Surveying	2	3
Political Science 80	Constitution of Nevada	..	1
			18

Senior Year—First Semester			
Chemistry 83	Physical Chemistry	1	3
Metallurgy 71	Hydro-Metallurgy	1	2
Metallurgy 61	Pyro-Metallurgy	..	3
Civil Engineering 61	Hydraulics	..	3
Project in Metallurgy		2	..
Elective		..	2
			17

Senior Year—Second Semester			
Chemistry 84	Physical Chemistry	1	3
Mining 74	Mineral Industry Economics	..	3
Electrical Engineering 75	Electricity in Mining	..	3
Civil Engineering 72	Strength of Materials	..	3
Civil Engineering 74	Metals Testing Laboratory	1	..
Metallurgy 72	Electro-Metallurgy	..	2
Metallurgy 70	Problems and Seminar	2	..
Project in Metallurgy		2	..
			20

NOTE—The electives are not free electives but must be so selected as to form a part of a systematic course of training in metallurgical engineering. Two nontechnical electives may be taken in the senior year.

MACKAY SCHOOL OF MINES
GEOLOGICAL ENGINEERING
(First two years—same as General Mining Course)

		LAB.	LEC.
Junior Year—First Semester			
Civil Engineering 41	Plane Surveying	1	2
*Foreign Languages	First Year	..	5
Geology 51	Petrology	1	1
Geology 70	Field Geology	1	..
Geology 82	Structural Geology	..	3
Mining 61	Mining Methods	..	3
			17
Junior Year—Second Semester			
Civil Engineering 42	Plane Surveying	2	3
Geology 52	Petrography	2	1
Geology 54	Geological Reports	..	2
Geology 60	Economic Geology of Nonmetals	..	3
*Foreign Languages	First Year	..	5
			18
Summer Course			
Geology 71	Summer Field Geology	..	4
Senior Year—First Semester			
Political Science 79	Constitution of U. S.	..	1
*Foreign Languages	Second Year	..	3
*English 11	Public Speaking	..	2
Geology 53	Stratigraphic Paleontology	1	2
Geology 61	Economic Geology of Metals	..	3
Geology 79	Geology Project	2	..
Geology 83	Geophysical Methods	1	2
			17
Senior Year—Second Semester			
Political Science 80	Constitution of Nevada	..	1
*Foreign Languages	Second Year	..	3
*Geology 58	Geomorphology	..	3
Geology 80	Geology Project	2	..
*Geology 84	Petroleum Geology	..	3
Elective		..	4
			16

*May be substituted for by permission.

School of Mechanical Engineering

Freshman Year—First Semester		LAB.	LEC.
English 1	Composition and Rhetoric	..	3
Chemistry 7	General Inorganic Chemistry	2	2
Mathematics 15	Mathematical Analysis	..	5
Mechanical Engineering 5	Engineering Drawing and Descriptive Geometry	2	-
*Political Science 3[1]	American Government	..	3
or	or		
*History 1	U. S. History	..	3
Military 1	Basic Course	1	-
Physical Education 1	Developmental Exercises	½	-
			18½

Freshman Year—Second Semester			
English 2	Composition and Rhetoric	..	3
Chemistry 8	General Inorganic Chemistry	2	2
Mathematics 16	Mathematical Analysis	..	5
Mechanical Engineering 6	Engineering Drawing and Descriptive Geometry	2	-
*Political Science 4[1]	American Government	..	3
or	or		
*History 2	U. S. History	..	3
Military 2	Basic Course	1	-
Physical Education 2	Developmental Exercises	½	-
			18½

Sophomore Year—First Semester			
Physics 3	General Physics for Engineers	..	4
Physics 5	Physical Measurements	2	-
Mathematics 27	Engineering Calculus	..	4
Civil Engineering 41	Elementary Surveying	1	2
English 11	Public Speaking	..	2
*Political Science 5	Comparative Government	..	2
or	or		
*History 5	European Civilization	..	3
Military 3	Basic Course	1	-
Physical Education 3	Advanced Exercises	½	-
			18½ or 17½

[1]Completion of Political Science 3 and 4 will satisfy the Political Science 79 and 80 requirement for graduation.

*Courses marked with an asterisk may be substituted for only when approved in writing by the advisor.

NOTE—Either Political Science 5 and 6, or History 5 and 6 must be completed. English 11 may be taken with Political Science 5, otherwise may be taken in the Senior Year.

Sophomore Year—Second Semester

		LAB.	LEC.
Physics 4	General Physics for Engineers	..	4
Physics 6	Physical Measurements	2	..
Mathematics 28	Engineering Calculus	..	4
Metallurgy 6	Engineering Materials and Processes	..	2
Mechanic Arts 26	Engineering Materials and Processes Laboratory	1	..
*Political Science 6	Comparative Government	..	2
or	or		
*History 6	European Civilization	..	3
Military 4	Basic Course	1	..
Physical Education 4	Advanced Exercises	½	..
			16½ or 17½

Junior Year—First Semester

Mathematics 55	Analytic Mechanics	..	3
Electrical Engineering 51	Direct Current Machinery	..	3
Electrical Engineering 53	Direct Current Machinery Laboratory	2	..
Mechanical Engineering 51	Kinematics	2	1
Mechanical Engineering 55	Thermodynamics	..	3
Mathematics 85	Differential Equations	..	2
*English 23	The Drama of Today	..	2
or	or		
*English 33	Great Books	..	2
			18

Junior Year—Second Semester

Mathematics 56	Analytic Mechanics	..	2
Civil Engineering 76	Mechanics of Materials	1	3
Electrical Engineering 52	Alternating Current Machinery	..	3
Electrical Engineering 54	Alternating Current Machinery Laboratory	2	..
Mechanical Engineering 56	Applied Thermodynamics	..	3
Mechanical Engineering 64	Mechanical Engineering Laboratory	2	..
*English 34	Great Books	..	2
			18

Senior Year—First Semester

Mechanical Engineering 65	Mechanical Engineering Laboratory	2	..
Mechanical Engineering 57	Machine Design	1	2
Mechanical Engineering 71	Heat-Power Engineering	..	3
Civil Engineering 67	Elementary Fluid Mechanics	2	3
Political Science 79	Constitution of U. S.	..	1
Business Administration 41	Fundamentals of Business Organization	..	3
Economics 3	Economics for Engineers	..	3
			17 or 18

*Courses marked with an asterisk may be substituted for only when approved in writing by the advisor.

Senior Year—Second Semester

		LAB.	LEC.
Mechanical Engineering 58	Machine Design Problem	2	1
Mechanical Engineering 72	Heat-Power Engineering	--	3
Mechanical Engineering 77	Internal Combustion Engines	--	3
Political Science 80	Constitution of Nevada	--	1
7 or 8 additional credits hours to be chosen with approval of advisor			7 or 8
			17 or 18

School of Electrical Engineering

Freshman Year—First Semester

		LAB.	LEC.
English 1	Composition and Rhetoric	--	3
Chemistry 7	General Inorganic Chemistry	2	2
Mathematics 15	Mathematical Analysis	--	5
Mechanical Engineering 5	Engineering Drawing and Descriptive Geometry	2	--
Military 1	Basic Course	1	--
Physical Education 1	Developmental Exercises	½	--
*Elective		--	2
			17½

Freshman Year—Second Semester

English 2	Composition and Rhetoric	--	3
Chemistry 8	General Inorganic Chemistry	2	2
Mathematics 16	Mathematical Analysis	--	5
Mechanical Engineering 6	Engineering Drawing and Descriptive Geometry	2	--
Military 2	Basic Course	1	--
Physical Education 2	Developmental Exercises	½	--
*Elective	Humanities	--	3
			18½

Sophomore Year—First Semester

Physics 3	General Physics for Engineers	--	4
Physics 5	Physical Measurements	2	--
Mathematics 27	Calculus for Engineers	--	4
Civil Engineering 41	Surveying	1	2
English 11	Public Speaking	--	2
Military 3	Basic Course, second year	--	1
Physical Education 3	Advanced Exercises	½	--
*Elective	Humanities	--	2
			18½

Sophomore Year—Second Semester

Physics 4	General Physics for Engineers	--	4
Physics 6	Physical Measurements	2	--
Mathematics 28	Calculus for Engineers	--	4
Metallurgy 6	Engineering Materials and Processes	--	2
Mechanic Arts 26A	Engineering Materials and Processes Laboratory	1	--
Military 4	Basic Course, second year	--	1
Physical Education 4	Advanced Exercises	½	--
*Elective	Humanities	--	3
			17½

*Electives selected under supervision of advisor.

		LAB.	LEC.
Junior Year—First Semester			
Electrical Engineering 51	Direct Current Machinery	..	3
Electrical Engineering 53	Direct Current Machinery Laboratory	2	..
Electrical Engineering 55	Introduction to Electric Circuits	..	2
Electrical Engineering 57	Introduction to Electronics	1	2
Mathmetics 55	Mechanics	..	3
Business Administration 41	Business Organization	..	3
Mathematics 85	Differential Equations	..	2
			18
Junior Year—Second Semester			
Electrical Engineering 52	Alternating Current Machinery	..	3
Electrical Engineering 54	Alternating Current Machinery Laboratory	2	..
Electrical Engineering 56	Alternating Current Circuits	..	2
Electrical Engineering 58	Industrial Electronics	1	2
Civil Engineering 72	Strength of Materials	..	3
Mathematics 56	Mechanics	..	2
*Elective		..	3
			18
Senior Year—First Semester			
Electrical Engineering 61	Advanced Alternating Current Machinery		3
Mechanical Engineering 57	Machinery Design	1	2
Political Science 79	Constitution of U. S.	..	1
*Elective		..	3
Electronics Option			
Electrical Engineering 81	Advanced Electronics	2	3
Electrical Engineering 83	Telephone Communication	1	2
			18
Power Option			
Electrical Engineering 63	Advanced Alternating Current Laboratory	3	..
Electrical Engineering 65	Advanced Power Circuits	..	2
Mechanical Engineering 53	Fundamentals of Thermodynamics	..	3
			18
Senior Year—Second Semester			
Electrical Engineering 62	Electrical Design	1	2
Electrical Engineering 88	Seminar	..	1
Political Science 80	Constitution of Nevada	..	1
*Elective		..	3
Electronics Option			
Electrical Engineering 82	High Frequencies and Microwaves	2	2
Electrical Engineering 84	Radio Communication	2	2
Physics 72	Modern Physics	..	2
			18

*Electives selected under supervision of advisor.

Power Option

		LAB.	LEC.
Electrical Engineering 64	Advanced Alternating Current Laboratory	3	..
Electrical Engineering 66	Generation and Distribution of Power	..	2
Mechanical Engineering 64	Mechanical Laboratory	..	2
Civil Engineering 62	Hydraulics	..	3
			18

School of Civil Engineering

Freshman Year—First Semester

		LAB.	LEC.
English 1	Composition and Rhetoric	..	3
Chemistry 7	General Inorganic Chemistry	2	2
Mathematics 15	Mathematical Analysis	..	5
Mechanical Engineering 5	Engineering Drawing and Descriptive Geometry	2	..
Economics		..	2
Military 1	Basic Course	1	..
Physical Education 1	Developmental Exercises	½	..
			17½

Freshman Year—Second Semester

English 2	Composition and Rhetoric	..	3
Chemistry 8	General Inorganic Chemistry	2	2
Mathematics 16	Mathematical Analysis	..	5
Mechanical Engineering 6	Engineering Drawing and Descriptive Geometry	2	..
Geology 10	Engineering Geology	..	3
Military 2	Basic Course	1	..
Physical Education 2	Developmental Exercises	½	..
			18½

Sophomore Year—First Semester

Mathematics 27	Calculus	..	4
Physics 3–5	General Physics for Engineers	2	4
English 11	Public Speaking	..	2
Civil Engineering 41	Plane Surveying	1	2
Civil Engineering 45	Engineering Problems	1	1
Military 3	Basic Course	1	..
Physical Education 3	Advanced Exercises	½	..
			18½

Sophomore Year—Second Semester

Mathematics 28	Calculus	..	4
Physics 4–6	General Physics for Engineers	2	4
Civil Engineering 42	Plane Surveying	2	3
Civil Engineering 46	Construction Materials	..	2
Military 4	Basic Course	1	..
Physical Education 4	Advanced Exercises	½	..
			18½

Junior Year—First Semester

		LAB.	LEC.
Mathematics 55	Analytic Mechanics	..	3
Civil Engineering 63	Route Surveying	2	3
Civil Engineering 67	Elementary Fluid Mechanics	2	3
Civil Engineering 69	Nonmetallic Testing Laboratory	1	..
Political Science 79	Constitution of U. S.	..	1
Economics 3	Engineering Economics	..	3
			18

Junior Year—Second Semester

Mathematics 56	Analytic Mechanics	..	2
Civil Engineering 64	Hydrology	..	3
Civil Engineering 66	Roads and Pavements	..	3
Civil Engineering 76	Mechanics of Materials	1	3
Civil Engineering 74	Metals Testing Laboratory	1	..
Civil Engineering 78	Framed Structures	2	2
Political Science 80	Constitution of Nevada	..	1
			18

Senior Year—First Semester

Civil Engineering 81	Framed Structures	2	2
Civil Engineering 85	Mechanics of Reinforced Concrete Design	1	3
Civil Engineering 87	Highway Engineering	..	3
Civil Engineering 89	Sanitary Engineering	..	3
Civil Engineering 91	Contracts and Specifications	..	2
Elective		..	2
			18

Senior Year—Second Semester

Civil Engineering 84	Structural Design	3	1
Civil Engineering 86	Reinforced Concrete Design	2	1
Civil Engineering 88	Engineering Economy	..	2
Civil Engineering 90	Sanitary Engineering	..	3
Civil Engineering 92	Foundations	..	2
Civil Engineering 94	Irrigation Engineering	..	3
Elective		..	1
			18

The College of Agriculture

1. THE SCHOOL OF AGRICULTURE.
2. THE SCHOOL OF HOME ECONOMICS.

AIM

The aim of the School of Agriculture is to give such training in scientific and vocational agriculture as will furnish a well-rounded education.

EQUIPMENT

AGRICULTURE BUILDING—For description of Agriculture Building see Buildings, Index.

UNIVERSITY FARMS—The University Farm for general purpose of agricultural instruction comprises 213 acres and was purchased in 1917. It is located two miles south of Reno along the Virginia Road.

The University Experimental Dairy Farm, equipment, and dairy herd, a gift in 1944 from Major Max C. Fleischmann, is located three miles south of Reno via the Virginia road and one mile west on Huffaker Lane. Formerly known as the Ladino Dairy, this 258-acre farm has modern dairy buildings, farm equipment, and machinery. The dairy herd consists of purebred stock. The noted purebred Holstein herd bull, Spring Farm Columbus, was a gift in 1945 from E. L. Cord. Instruction and laboratory work in Dairy Husbandry is conducted on this farm.

DAIRY—The laboratory in the Agriculture Building, equipped with machinery and apparatus, furnishes opportunity for instruction in methods of handling milk and dairy products, as milk testing, butter making, and the marketing of milk.

SHOPS—Two shops have been fitted up for carrying on instruction in farm mechanics. One shop, in rear of Lincoln Hall, includes forges and other equipment for farm blacksmithing, tools and equipment for plumbing, soldering, cold metal, machinery, and gas engine repair.

Another shop located above the machine shop in the Mechanical Engineering Building is equipped for farm carpentry, painting, glazing, ropework, and building construction. Actual practice is an outstanding objective in all phases of farm mechanics work.

GREENHOUSE—A greenhouse is available to students for laboratory work in courses in botany and horticulture. A large room is devoted to experimental work in plant physiology, ecology, etc., while other rooms in the greenhouse make available materials for laboratory work in the beginning courses.

THE HERBARIUM—The Herbarium of the University of Nevada contains at the present time approximately 20,000 sheets, representing, in large part, collections made in Nevada. This Herbarium is probably the most complete collection of Nevada plants in existence and additional new plants of the State are being added from year to year. It is located in the Agriculture Building and is administered by the botany staff.

ADMISSION REQUIREMENTS

For admission requirements, entrance subjects, and the number of credits belonging to each, see Index for subjects about which information is desired.

REQUIREMENTS FOR A BACCALAUREATE DEGREE IN AGRICULTURE

The degree of Bachelor of Science in Agriculture with majors in general agriculture, agricultural economics, preforestry, range management, agronomy-botany, animal husbandry and vocational agriculture will be conferred upon students who satisfactorily complete the full course of study in the selected major field in the School of Agriculture, aggregating 126 semester units.

Candidates for the degree of Bachelor of Science in Agriculture must present satisfactory evidence of at least twelve week's actual farm experience before they will be recommended for the degree.

COLLEGE OF AGRICULTURE

COURSES OF STUDY

Definition of a Major in the College of Agriculture—

To complete a major in the College of Agriculture means that a student has not completed a given number of hours in a specific department, but that he has completed a prescribed curriculum in a given field in the college.

Agricultural Curricula

Uniform Freshman Year		*1st Sem.*	*2d Sem.*
Military 1–2	Basic Course, 1st year	1	1
Physical Education 1–2	Developmental Exercises	½	½
Chemistry 7–8	General Inorganic	4	4
Botany 1	General Botany	3	..
Animal Husbandry 1	Breeds of Livestock	3	..
English 1–2	Composition and Rhetoric	3	3
Agronomy 1–2	Soil Conservation and Forage Crops	2	3
Zoology 2	General Zoology	..	4
		16½	15½

General Course in Agriculture

Sophomore Year	*1st Sem.*	*2d Sem.*
Military 3–4	1	1
Physical Education 3–4	½	½
Aricultural Economics 1–2	3	3
Geology 1 or 10	3	..
Agronomy 5	3	..
Animal Husbandry 3–30	4	3
Botany 22	..	4
Dairying 1	..	3
Elective	1	1
	15½	15½

Junior Year		
Dairy Husbandry 53	3	..
Agricultural Electives	8	8
Electrical Engineering 47	2	..
Nonagricultural Electives	..	5
Elective	3	3
	16	16

Senior Year		
Political Science 79–80	1	1
Agricultural Electives	7	7
Nonagricultural Electives	3	3
Elective	4	5
	15	16

The following course of study is designed for students intending to enter the field of forestry or of range management. It includes the fundamental subjects required in forestry schools and makes it possible, upon completion of the course, to obtain a degree in forestry in a professional school of forestry in from one and one-half to two years:

Preforestry and Range Management

Sophomore Year		*1st Sem.*	*2d Sem.*
Military 3–4	Basic Course	1	1
Physical Education 3–4	Advanced Exercises	½	½
Agricultural Economics 1–2	Principles of Economics	3	3
Botany 21–22	Morphology and Taxonomy	3	4
Geology 1 or 10	Physical or Engineering Geology	3	..
Mathematics 22	General Mathematics	..	4
Botany 53	Dendrology	4	..
English 11	Public Speaking	2	..
Elective	Preforestry	..	3
		16½	15½

Range management students must register in Animal Husbandry 3 and 30. Botany 21 and 53 are not required of range management students.

Junior Year		*1st Sem.*	*2d Sem.*
Physics 1a–1b	General Physics	4	4
Civil Engineering 51–53	Surveying	4	..
Zoology 59–60	Entomology and Wildlife Ecology	3	3
Agronomy 7	Soils	3	..
Botany 55	Plant Physiology	..	3
Economics 56	Land Economics	..	2
Botany 54	Agrostology	..	3
Civil Engineering 2	Map Making	..	1
		14	16

Senior Year			
Political Science 79–80	Constitutions of U. S. and Nevada	1	1
Botany 75–76	Ecology	4	4
Business Adm. 43–44	Accounting	3	3
Botany 64 or 56	Plant diseases—Poisonous plants	..	4
Agronomy 60	Pasture Management	3	..
Elective		5	4
		16	16

Range management students must register in Animal Husbandry 58. Business Administration 43–44 is not required of range management students.

Agronomy–Botany

Sophomore Year		*1st Sem.*	*2d Sem.*
Military 3–4	Basic Course	1	1
Physical Education 3–4	Advanced Exercises	½	½
Chemistry 9–10	Analytical Chemistry	4	4
Agricultural Economics 1–2	Principles of Economics	3	3
Botany 21	Morphology and Development of Plants	3	..
Agronomy 5	Field Crops	3	..
Mathematics 22	General Mathematics	..	4
Botany 22	Taxonomy	..	4
		14½	16½

Junior Year		*1st Sem.*	*2d Sem.*
Physics 1a–1b	General Physics	4	4
Zoology 59–60	Entomology and Wildlife Ecology	3	3
Agronomy 7	Soils	3	--
Botany 56	Weeds, Poisonous Plants, and		
or	Seed Test	--	--
Botany 64	Plant Diseases	--	4
Agricultural Economics 56	Land Economics	--	2
Botany 55	Plant Physiology	--	3
Civil Engineering 51	Surveying	4	--
Elective		1	
		15	16

Senior Year			
Chemistry 51–52	Organic Chemistry	4	4
Geology 1 or 10	Physical or Engineering Geology	3	--
Agronomy 62	Soil Fertility	--	3
Political Science 79–80	Constitutions of U. S. and Nevada	1	1
Agronomy 60	Pasture Management	3	--
Agricultural Economics 52	Agricultural Economics	--	3
Agronomy 76	History of Agriculture	--	3
Agronomy 63	Land Values	3	--
Elective		2	2
		16	16

Agricultural Economics

Sophomore Year		*1st Sem.*	*2d Sem.*
Military 3–4	Basic Course	1	1
Physical Education 3–4	Advanced Exercises	½	½
Agricultural Economics 1–2	Principles of Economics with Application to Agriculture	3	3
Agricultural Economics 45	Farm Accounting	3	--
Agronomy 7	Soil Management	3	--
Mathematics 22	General Mathematics	--	4
Animal Husbandry 3–30	Livestock Judging and Feed	4	3
Sociology 50	Rural Sociology	--	2
Mathematics 5	Algebra	2	--
Elective		--	2
		16½	15½

Junior Year			
Agricultural Economics 57	Marketing of Agricultural Products	3	--
Agricultural Economics 56	Land Economics	--	2
Agronomy 76	History of Agriculture	--	3
Psychology 5	General Psychology	--	3
Geology 1 or 10	Physical or Engineering Geology	3	--
Economics 61	Statistical Methods	3	--
Agricultural Economics 64	Cooperative Organizations	--	2
Agricultural Economics 65	Agricultural Prices	3	--
Agricultural Economics 55	Rural Finance	2	--
English 11–12	Public Speaking	2	2
Elective		--	4
		16	16

Senior Year		*1st Sem.*	*2d Sem.*
Political Science 79–80	Constitutions of U. S. and Nevada	1	1
Agricultural Economics 76	Farm Management	..	3
Agronomy 54	Irrigation and Drainage	3	..
Economics 52	Money and Banking	3	..
Agronomy 63	Farm Land Values	3	..
Agricultural Economics 52	Agricultural Economics Policies	..	3
Elective		5	8
		15	15

Vocational Agriculture

Sophomore Year		*1st Sem.*	*2d Sem.*
Military 3–4	Basic Course	1	1
Physical Education 3–4	Advanced Exercises	½	½
Agronomy 5	Field Crops	3	..
Animal Husbandry 3–30	Livestock Judging and Feeding	3	3
Agricultural Economics 1–2	General Economics	3	3
Poultry 2	Farm Poultry Management	3	..
Dairy 1	Dairying	..	3
Botany 22	Taxonomy	..	4
Farm Mechanics 1–20	Blacksmithing, General Mechanics	2	2
		15½	16½

Junior Year			
Agronomy 7–62	Soil Management and Soil Fertility	3	3
Psychology 5–6	General and Educational Psychology	3	3
Animal Husbandry 58	Range Management	..	3
Farm Mechanics 41–32	Machinery and Equipment	2	2
Poultry 8	Turkey Production	3	..
Dairy 53–55	Dairy Products and Sanitation	3	3
Animal Husbandry 66	Livestock Management	..	3
		14	17

Senior Year			
Education 60–82	Problems of Secondary Education	2	2
Education 24	School Organization and Law	2	..
Education 87–86	Prob. and Methods of Voc. Agri	3	2
Education 75–76	Practice Teaching	2	2
Farm Mechanics 85	Teaching Farm Mechanics	2	..
Political Science 79–80	Constitutions of U. S. and Nevada	1	1
Agricultural Economics 45	Farm Accounting	3	..
Agronomy 54	Irrigation and Drainage	..	3
Agricultural Economics 76	Farm Management	..	3
Elective		..	3
		15	16

Animal, Dairy, and Poultry Husbandry

Sophomore Year		*1st Sem.*	*2d Sem.*
Military 3–4	Basic Course	1	1
Physical Education 3–4	Advanced Exercises	½	½
Agricultural Economics 1–2	General Economics	3	3
Botany 22	Taxonomy	..	4
Animal Husbandry 3	Livestock Judging	4	..
Animal Husbandry 30	Livestock Feeding	..	3

ANIMAL, DAIRY, AND POULTRY HUSBANDRY—*Continued.*		*1st Sem.*	*2d Sem.*
Dairy Husbandry 1	Dairying	3	..
English 11–12	Public Speaking	2	2
Animal Husbandry 52	Genetics	..	3
Poultry 2	Farm Poultry Management	3	..
		16½	16½
	Junior Year		
Agronomy 5	Field Crops	3	..
Animal Husbandry 58	Range Management	..	3
Animal Husbandry 53	Registration	..	1
Civil Engineering 51	Surveying	4	..
Animal Husbandry 56	Advanced Livestock Judging	3	..
Agronomy 60	Pasture Management	..	3
Animal Husbandry 63–64	Animal Husbandry Literature	2	2
Elective		3	6
		15	15
	Senior Year		
Political Science 79–80	Constitutions of U. S. and Nevada	1	1
Animal Husbandry 50	Animal Hygiene	..	3
Animal Husbandry 55	Advanced Livestock Feeding	3	..
Animal Husbandry 66	Livestock Management	..	3
Dairy Husbandry 55	Dairy Sanitation	3	..
Dairy Husbandry 57	Advanced Milk Production	..	2
Farm Mechanics 9–20		2	2
Elective		6	5
		15	16

QUALIFICATION OF TEACHERS OF VOCATIONAL AGRICULTURE

A graduate of the College of Agriculture who desires to teach vocational agriculture in this State must fulfill the following requirements:

A. *Farm Experience.* The teacher of vocational agriculture must have had actual farm experience. Preference will be given to those graduates who have lived and worked upon a farm until the age of 18 years. In any case, the graduate must have had experience equal to two years after reaching the age of fourteen years.

B. *Education.* All Agricultural College graduates who wish to qualify as teachers of vocational agriculture in Nevada should arrange to complete the courses as outlined for vocational agriculture education given on page 183. It is essential that vocational agriculture teachers have a broad training foundation in animal and plant production courses, agricultural economics, marketing and farm mechanics. The animal production courses include dairy and poultry.

a. All Agricultural College graduates who wish to qualify as teachers of vocational agriculture in Nevada must also have not less than 18 semester hours of credit in educational subjects,

including courses in "Special Methods of Teaching Vocational Agriculture" and "Observations and Practice Teaching of Vocational Agriculture" and certain other educational subjects as specified by law for certification of teachers.

School of Home Economics

Requirements for a Baccalaureate Degree in Home Economics

Home Economics is a program of studies based on sound fundamental training in the physical, biological, and social sciences with application of these to living—and this involves living with others.

These are days of challenging responsibilities, of great opportunities, to be better equipped to take ones place in the home and in the community.

Four areas of concentration are offered in order to meet individual needs; namely, teaching major; dietetics major; clothing major and a general homemaking major.

The degree of Bachelor of Science in Home Economics is conferred upon satisfactory completion of 126 semester units. Eighteen units are required for a minor in Home Economics.

Fields of Concentration

Teaching Major

Freshman Year—First Semester		LAB.	LEC.
English 1	Composition and Rhetoric	..	3
Chemistry 3	General Chemistry	2	2
Physical Education 1	Freshman Practice	1	..
Home Economics 31	Food	2	1
Home Economics 15	Clothing	2	1
Elective		..	1
			15

Freshman Year—Second Semester			
English 2	Composition and Rhetoric	..	3
Chemistry 4	General Chemistry	2	2
Physical Education 2	Freshman Practice	1	..
Home Economics 32	Food	2	1
Home Economics 18	Clothing	2	1
Art 6	Art Structure and Composition	2	..
			16

Sophomore Year—First Semester			
Physics 19	Household Physics	1	2
Home Economics 33	Nutrition in Health	..	3
Psychology 5	General Psychology	..	3
Physical Education 3	Sophomore Practice	½	..
English 45	Introduction to Literary Study	..	3
English 11	Public Speaking	..	2
Horticulture 1		..	3
			17½

Sophomore Year—Second Semester		LAB.	LEC.
Physics 20	Household Physics	1	2
Psychology 6	Educational Psychology	..	3
Home Economics 46	Related Art	2	..
Home Economics 16	Textiles	1	2
Physical Education 4	Sophomore Practice	½	..
Home Economics 42	Food Economics	..	3
			14½

Junior Year—First Semester			
Home Economics 53	Care of Health and Disease	1	2
Home Economics 99	Demonstration	5	1
Education 60	Problems of Secondary Education	..	3
Home Economics 87	Home Decoration	2	1
English 55	Speech	..	2
			17

Junior Year—Second Semester			
Psychology 70	Marriage and Divorce	..	2
Home Economics 84	Special Problems in Foods	..	3
Home Economics 86	Home Management	..	3
Home Economics 66	Advanced Clothing	2	1
Home Economics 88	Household Equipment	1	1
Education 88	Problems in Homemaking Education	..	2
Sociology 80	The Family	..	2
			17

Senior Year—First Semester			
Education 89	Methods in Teaching Vocational Homemaking	..	3
Home Economics 75	Child Development	..	3
Home Economics 55	Meal Planning	3	1
Education 75	Supervised Teaching	2	..
Education 24	School Law	..	2
Political Science 79	Constitution of U. S.	..	1
			15

Senior Year—Second Semester			
Education 76	Supervised Teaching	2	..
Education 82	Noninstructional Responsibilities of High School Teacher	2	..
Home Economics 98	Institutional Management	3	..
Home Economics 67	Children's Clothing	2	1
Political Science 80	Constitution of Nevada	..	1
Philosophy 22	Applied Ethics	..	3
			14

Clothing Major

Freshman Year—First Semester		LAB.	LEC.
Horticulture 1		..	3
English 1	Composition and Rhetoric	..	3
Home Economics 15	Clothing	2	1
Physical Education 1	Freshman Practice	1	..
Science (choice of)		..	4
Art 5	Art Structure and Composition	2	..
			16

Freshman Year—Second Semester		LAB.	LEC.
English 2	Composition and Rhetoric	..	3
Home Economics 18	Clothing	2	1
Home Economics 16	Textiles	1	2
Physical Education 2	Freshman Practice	1	..
Art 6	Art Structure and Composition	2	..
Science (choice of)		..	4
			16

Sophomore Year—First Semester			
English 41	Appreciation of Literature	..	2
English 11	Public Speaking	..	2
Home Economics 33	Nutrition	..	3
Psychology 5	General Psychology	..	3
Physics 19	Household Physics	1	2
Physical Education 3	Sophomore Practice	½	..
Home Economics 31	Food	2	1
			16½

Sophomore Year—Second Semester			
English 42	Appreciation of Literature	..	2
English 12	Public Speaking	..	2
Home Economics 32	Food	2	1
Physics 20	Household Physics	1	2
Home Economics 46	Related Art	2	..
Physical Education 4	Sophomore Practice	½	..
Elective		..	3
			15½

Junior Year—First Semester			
Art 51	Watercolor and Oil Painting	3	..
Art 53	Advanced Freehand Drawing	3	..
Agricultural Economics 1	Principles of Agri. Economics	..	3
English 70	American Literature	..	3
Home Economics 87	Home Decoration	2	1
			15

Junior Year—Second Semester			
Art 52	Watercolor and Oil Painting	3	..
Art 54	Advanced Freehand Drawing	3	..
Agricultural Economics 2	Principles of Agri. Economics	..	3
Home Economics 86	Home Management	..	3
Philosophy 22	Applied Ethics	..	2
Home Economics 66	Clothing	2	1
			17

Senior Year—First Semester			
English 55	Technique of Public Discussion	..	2
Home Economics 99	Demonstration	2	1
Home Economics 75	Child Development	..	3
History 69	Recent European History	..	2
Psychology 61	Business Psychology	..	3
Political Science 79	Constitution of U. S.	..	1
Journalism 21	Reporting	2	..
			16

Senior Year—Second Semester		LAB.	LEC.
Psychology 70	Marriage and Divorce	..	3
Political Science 80	Constitution of Nevada	..	1
Journalism 22	Reporting	3	..
Home Economics 67	Children's Clothing	2	1
Literature (elective)		..	4
			14

Dietetics Major

Freshman Year—First Semester		LAB.	LEC.
English 1	Composition and Rhetoric	..	3
Chemistry 7	General Inorganic Chemistry	2	2
Physical Education 1	Freshman Practice	1	..
Home Economics 31	General Foods	2	1
Home Economics 15	Clothing	2	1
Elective		..	2
			16

Freshman Year—Second Semester			
English 2	Composition and Rhetoric	..	3
Chemistry 8	General Inorganic Chemistry	2	2
Home Economics 32	General Foods	2	1
Home Economics 16	Textiles	..	3
Home Economics 18	Clothing	2	1
Physical Education 2	Freshman Practice	1	..
			17

Sophomore Year—First Semester			
Physics 19	Household Physics	1	2
Chemistry 9A	Quantitative Analytical Chemistry	1	2
Home Economics 33	Nutrition in Health	..	3
Psychology 5	General Psychology	..	3
Physical Education 3	Sophomore Practice	½	..
Agricultural Economics 1	Principles of Economics	..	3
			15½

Sophomore Year—Second Semester			
Physics 20	Household Physics	1	2
Chemistry 26	Organic Chemistry	..	3
Home Economics 34	Nutrition in Disease	..	3
Physical Education 4	Sophomore Practice	½	..
Home Economics 42	Food Economics	..	3
Agricultural Economics 2	Principles of Economics	..	3
			15½

Junior Year—First Semester			
Zoology 57	Physiology	1	2
Home Economics 75	Child Development	..	3
Home Economics 53	Care of Health and Disease	1	2
Home Economics 55	Meal Planning	3	1
Chemistry 67	Physiological Chemistry	2	2
			17

Junior Year—Second Semester

		LAB.	LEC.
Zoology 58	Physiology	1	2
Home Economics 98	Institution Management	..	3
English 55	Public Discussion	..	2
Psychology 40	Mental Hygiene	..	3
Home Economics 96	Quantity Foods	3	..
Sociology 2	Social Problems	..	3
			17

Senior Year—First Semester

Home Economics 102	Consumer Education	..	3
Bacteriology 51	General Bacteriology	2	2
Home Economics 91	Education for Dietetic Majors	..	3
Home Economics 99	Demonstration	2	1
Political Science 79	Constitution of U. S.	..	1
			14

Senior Year—Second Semester

Home Economics 94	Experimental Foods	1	1
Home Economics 85	Special Problems	..	3
Political Science 80	Constitution of Nevada	..	1
Philosophy 22	Applied Ethics	..	3
Electives		..	5
			14

General Home Economics

Freshman Year—First Semester

		LAB.	LEC.
English 1	Composition and Rhetoric	..	3
Home Economics 15	Clothing	2	1
Physical Education 1	Freshman Practice	1	..
Music 10	Appreciation of Music	..	2
One Year Science: Zoology, Botany, Chemistry, Mathematics	choice of	..	3
Physics 19	Household Physics	1	2
			15

Freshman Year—Second Semester

English 2	Composition and Rhetoric	..	3
Home Economics 18	Clothing	2	1
Physical Education 2	Freshman Practice	1	..
Home Economics 16	Textiles	1	2
One Year Science: Zoology, Botany, Chemistry, Mathematics	choice of	..	3
Physics 20	Household Physics	..	3
			16

		LAB.	LEC.
Sophomore Year—First Semester			
Home Economics 33	Nutrition	..	3
English 11 or 41	Public Speaking or Appreciation of Literature	..	2
Home Economics 31	Foods	2	1
Philosophy 1	Introduction to Philosophy	3	..
Psychology 5	General Psychology	..	3
Horticulture 1	General Horticulture	..	3
			17
Sophomore Year—Second Semester			
English 12 or 42	Public Speaking or Appreciation of Literature	..	2
Home Economics 32	Foods	2	1
Home Economics 67	Children's Clothing	2	1
Home Economics 46	Related Art	2	..
Home Economics 42	Food Economics	..	3
Electives		..	2
			15
Junior Year—First Semester			
Art 5	Art Structure and Composition	2	..
Home Economics 53	Care of Health and Disease in the Home	..	3
Home Economics 75	Child Development	..	3
Home Economics 87	House Decoration	2	1
Agricultural Economics 1	Principles of Economics	..	3
Electives		..	2
			16
Junior Year—Second Semester			
Psychology 40	Mental Hygiene	..	3
Home Economics 66	Advanced Clothing	2	1
Home Economics 86	Home Management	..	3
Home Economics 80	The Family	..	2
Agricultural Economics 2	Principles of Economics	..	3
Psychology 70	Marriage and Divorce	..	2
			16
Senior Year—First Semester			
Home Economics 55	Meal Planning	3	1
History (choice of)		..	2
Home Economics 83	Food Problems	..	3
Home Economics 95	Clothing Problems	..	3
Political Science 79	Constitution of U. S.	..	1
Elective		..	2
			15
Senior Year—Second Semester			
Home Economics 88	Household Equipment	1	1
Home Economics 102	Consumer Education	..	3
Home Economics 68	Costuming	2	..
Political Science 80	Constitution of Nevada	..	1
Home Economics 67	Children's Clothing	2	1
Philosophy 22	Applied Ethics	..	3
Elective		..	2
			16

GRADUATE STUDY

Opportunity for Graduate Work

The University offers graduate work leading to the following advanced degrees: Master of Arts, Master of Science, and certain professional degrees in the College of Engineering. Most of the departments in the College of Arts and Science will accept candidates for the master's degree. Specialization in any department, however, will be limited to the specialties of the department staff.

Professional engineering degrees are given on satisfactory completion of certain professional work and a thesis as described later in the section *Engineering Degrees.*

Although, in general, all work for the master's degree will be expected to be done in residence, certain departments, at their discretion, may allow a portion of the course work to be done at other recognized graduate schools. Whenever a student is accepted for graduate work leading to the master's degree, he may be assured that he will be given instruction of superior quality, and counseling that will be intimate and generous. Since the master's degrees are the only advanced degrees offered by the University, effort is made to keep the work exceptionally high in standard, and in value to the student. The candidate for the master's degree need not fear that he will be slighted in behalf of others seeking a doctor's degree, as no work is offered leading to the Ph.D.

General Requirements for the Master's Degree

1. *Undergraduate Prerequisite.* Excepting the special case of senior undergraduates in residence at the University of Nevada (as presented in paragraph 8 of the section on General Regulations) no student will be accepted for graduate work unless he has earned the bachelor's degree from an accredited college or university.

A student must have completed such undergraduate work as the department concerned, with the approval of the Graduate Committee, may require. The prerequisite for a graduate major normally amounts to an undergraduate major or its equivalent in the department, and in no case may this prerequisite be less than the requirements for an undergraduate minor or its equivalent. If a student is deficient in undergraduate prerequisites he must make up such deficiencies. In case of uncertainty as to the

candidate's ability to undertake graduate work in the department, the head of the department may require the candidate to take a qualifying examination.

2. *Residence Requirements.* A thesis and a total of 24 semester hours in graduate courses (for definition see section entitled *Graduate Courses*) are required in residence at the University of Nevada or, by special arrangement, at other approved institutions, as follows:

I. For graduates of the University of Nevada: 12 semester hours of graduate courses may be done in other accredited institutions, and be accepted toward the degree when such courses have been approved in advance by the major or minor department.

II. For graduates of other institutions: 8 semester hours of graduate courses in other institutions may be accepted under the conditions specified above.

3. *Requirements for Major and Minor.* The candidate for the master's degree must select the department in which he wishes to do his major concentration and also a department for a minor field. A minimum of 12 of the 24 graduate hours is required for the major and of 6 hours for the minor. Subject to the approval of the graduate committee more than the minimum may be required for either the major or the minor as conditions may require. Whatever number of the 24 hours is not required for the major and minor may be elected by the student in any department; they will normally be chosen to support the candidate's thesis.

Students should not enroll in any course for graduate credit without first securing the approval of the department head that such courses are acceptable toward a major or a minor. Not any six or twelve hours may be chosen, but only such as combine to make the design that the student may or should have in mind.

4. *The Thesis.* As the thesis is considered the most distinctive characteristic of the master's degree, great importance is assigned to it in determining the eligibility of the candidate for the degree. Generally the thesis should demonstrate the ability of the student to select and delimit a specific problem or topic, to assemble the pertinent and necessary data, to make some original research or contribution, to organize ideas and data acceptably, and to prepare a written report in clear and effective English.

As the thesis usually requires close and constant supervision by the director in charge, the candidate should plan to develop the thesis while in residence. It is almost impossible to make satisfactory progress on the thesis wholly or largely in absentia. The candidate should not expect therefore to carry a full load of graduate courses in residence and do the thesis away from the

campus. When considerable progress has been made while in residence in collecting data and in outlining the thesis, the candidate may be permitted to attempt the completion of the thesis away from the campus, under such arrangements as the supervisor of the thesis may specify.

Other general regulations concerning the thesis are described later.

5. *The Final, Oral, Examination.* Not later than three weeks before the date of the Commencement at which the degree is to be conferred, a final examination will be held. This examination is usually oral, though it may be written, and is conducted by a committee of five, appointed by the graduate committee. The examination may cover the contents of the thesis, and facts, principles, or theories related to or suggested by the thesis, as well as all subject matter involved in or relevant to the major or minor courses.

Procedure for Becoming a Candidate for the Master's Degree

1. *Submission of Undergraduate Transcript.* Graduates of recognized colleges or universities who desire to become candidates for the master's degree at the University of Nevada should submit to the chairman of the Graduate Committee, considerably in advance of the registration date, an official transcript of his complete undergraduate record with official evidence that the bachelor's degree has been conferred.

2. *Application for Candidacy.* Before registering for any graduate course the candidate should receive from the chairman of the Graduate Committee an application blank for admission to candidacy, and, in consultation with his major and minor professors, should indicate upon the blank the general program of studies that he is to pursue. The blank should be returned to the graduate committee before registration is begun.

3. *Registration.* At the date of registration, the graduate student whose application has been approved by the departments concerned and by the Graduate Committee, will (a) secure his registration coupons from the Registrar, (b) secure the signature of the professor for each course in which he wishes to enroll,* (c) secure the signature of the chairman of the Graduate Committee, (d) make out his class cards, (e) present the registration card to the Registrar for computation of fees to be paid, and (f) present the card to the Comptroller and pay the fees.

*Graduate students must be certain that the course carries graduate credit.

Graduate Courses

Graduate courses consist of those numbered 100 and above, and of such courses numbered 50 to 100 as the department concerned may accept for graduate credit. To be acceptable for graduate credit such courses will require such additional and individual work as the instructor may deem necessary to demonstrate ability on the part of the student to do independent study and thinking. No such course will be acceptable for graduate credit if the student has already received undergraduate credit in it. The thesis, or a course offered in the thesis, is not counted as part of the 24 hours required for the degree.

Fees

Graduate students are subject to the payment of the following fees:

1. Matriculation Fee—Every student is required to pay a matriculation fee of $5 upon the occasion of his first registration in the University. This fee is payable only once.

2. Registration and Incidental Fees — A registration fee of $7.50, an incidental fee of $5, and a library fee of $2.50 is payable each semester by every student enrolled for more than 5 credit hours.

3. Laboratory and Course Fees—A considerable number of courses, especially the laboratory courses, carry specific fees to pay for supplies or for other extras; these fees vary with the nature of the course, and may be ascertained from the department head or the Registrar. Fees for courses, other than science, as history, English, foreign languages, etc. are unusual.

4. Diploma Fee—A fee of six dollars is charged to cover the cost of the diploma. If the student does not desire to buy the master's hood, it is possible to rent one for the Commencement ceremony through the University library for a nominal fee.

5. Nonresident Tuition Fee—Students who are not residents of the State of Nevada must pay a tuition fee of $100 each semester.

6. Summer Session Fees—A fee for each summer session of six weeks is payable by every student enrolled.

7. Student Union and Health Fees—Graduate students are not required to pay the A. S. U. N. semester fee of $13.00 and the health service fee of $6 per semester, but they may avail themselves of the services provided upon payment of the fees.

Thesis Regulations

a. Date of Submission—The thesis must be completed in typed form, unbound, for submission to the examining committee not later than four weeks before the date of the Commencement at

which the degree is to be conferred; this date precedes the final examination by one week. A copy of the thesis should be provided for each of the five members of the examining committee.

b. Format and Binding—The thesis should be typed on a good quality of bond paper, 8½ x 11 inches, with ample margin on the left to permit binding. Matters of form respecting capitalization, abbreviations, quotations, footnotes, bibliography, etc., should conform with the best usage as set forth in standard manuals on research writing; on all such items the practice should be consistent throughout the thesis. A sample of the formal title page may be secured from the chairman of the Graduate Committee.

When the thesis has been approved by the examining committee at least three copies should be bound in accord with specifications prepared by the Graduate Committee.

c. Copies for Deposit—Three bound copies of the thesis must be submitted to the Graduate Committee; not all these copies need be the first impression, but if carbon copies are included, they should be distinct and easily legible. Two copies will be deposited in the University library and one copy will be retained by the major department. Majors in the Education Department may submit an additional copy to be forwarded to the U. S. Office of Education, Washington, D. C., to be deposited there for cataloguing and for inter-library loan purposes.

The Examining Committee

The examining committee which passes upon the thesis and conducts the final examination consists of five members of the faculty: the chairman of the major department, the chairman of the minor department, a member of the Graduate Committee, some member to represent the faculty at large, and the professor directing the thesis, or if the department chairman is directing the thesis, some additional member from the major or minor departments.

General Regulations

1. Graduate credit will not be allowed in any course in which the grade received is less than B.

2. A candidate will not be recommended to the faculty for the master's degree unless he has been approved by the examining committee both on the thesis and on the final oral examination.

3. No graduate student may register for more than fourteen hours of graduate work in any semester, nor for more than six in any six weeks summer session. Candidates should not plan to enroll for the maximum hours in every session as this will prevent the necessary time for work on the thesis.

4. All the requirements for the master's degree must be satisfied within the period of five calendar years immediately preceding the granting of the degree.

5. The head of the major or minor departments may require a reading knowledge of a foreign language (usually French or German).

6. Correspondence and extension courses will not be accepted for credit towards the master's degree.

7. Candidates for the master's degree may not at the same time be candidates for any other degree.

8. Undergraduates at the University of Nevada who lack less than 15 semester credits to complete the requirements for the bachelor's degree may enroll in approved courses for graduate credit, provided such credit is requested by the student and approved by the professor at the time of enrollment.

9. Members of the University staff who are employed on full-time salary may not register for more than 6 credits during one semester.

Engineering Degrees

The Engineering degrees—Engineer of Mines (E.M.), Metallurgical Engineer (Met.E.), Mechanical Engineer (M.E.), Civil Engineer (C.E.), and Electrical Engineer (E.E.)—may be conferred upon graduates who have taken corresponding courses in the College of Engineering of the University of Nevada, or upon graduates of other institutions who have obtained the Master of Science degree in engineering from the University of Nevada; who have been engaged in honorable and successful engineering work in positions of responsibility for a period of at least five years in the case of holders of the B.S. degree, or four years in that of holders of the M.S. degree; and who submit theses showing ability to conduct advanced engineering work. Theses will not be considered when they are merely investigations in literature, compilations of routine laboratory tests, or presentations of the work of others.

The engineering degrees may also be conferred upon graduates of the College of Engineering of the University of Nevada and upon graduates of other engineering colleges of equal standing, who, after graduation, have been engaged for a period of at least one year in honorable and successful engineering work in a position of responsibility, and who subsequently complete successfully one year of graduate work in engineering, including thesis, at the University of Nevada. Graduates of other institutions must include in their graduate work any subjects in the corresponding undergraduate curricula which are required by the College of Engineering of the University of Nevada, but whose equivalents were lacking in their undergraduate courses.

Formal application for an engineering degree must be filed with the Registrar not later than the beginning of the second semester of the year in which the degree is sought, and approved in turn by the Engineering Faculty and the Graduate Committee. The application must be accompanied by detailed and satisfactory evidence as to the extent and character of the applicant's professional work. The thesis shall have the general form prescribed for the bachelor's thesis, or shall be a reprint of an article appearing in a reputable magazine. In the case of a nonresident applicant, it shall be presented to the Engineering Faculty and to the Graduate Committee at least eight weeks before the date set for conferring the degree. The diploma fee for an engineering degree is five dollars.

Courses of Instruction

On the following pages, listed under their respective headings, are given all the courses in which instruction is offered by the University. These are arranged in alphabetical order, as in the table below. If certain courses offered by a department are intended for a particular college, this fact is indicated by the name of the college following the number of the course. In all cases where no limitations of this character are found, it may be assumed that, so far as the curricula and regulations of the several colleges permit election, the instruction offered is open to all qualified students of the University.

Course Offerings

Physical Education
Men
Women
Physics
Political Science (See History and Political Science)
Portuguese (See Foreign Languages)
Poultry Husbandry (See Animal Husbandry)
Psychology
Spanish (See Foreign Languages)
Sociology (See Economics, Business, and Sociology)
Speech (See English)
Zoology (See Biology)

The numbers prefixed to the courses ordinarily denote the classes of students for whom the work is intended, courses numbered from 1 to 49 being designated primarily for freshmen and sophomores, 50 to 100 for juniors and seniors, and 101 to 200 for graduate students.

Agricultural Economics

Professor Wittwer (Chairman of Department); Associate Professor Titus.

1. Principles of Economics With Applications to Agriculture. An introduction to the economics of production, value and exchange, money and credit, business cycles, international trade, distribution of wealth, labor, transportation, agricultural credit, marketing and public finance with special emphasis on their application to agriculture. *Prerequisite:* Sophomore year. *First semester. Three credits.* Wittwer.

2. Principles of Economics With Applications to Agriculture. A continuation of 1. *Second semester. Three credits.* Wittwer.

45. Farm Accounting. A study of various survey forms and types of record books. Actual farm records will be used and the various factors which make for successful farming criticized and studied. *First semester. Three credits.* Titus.

52. Agricultural Economic Policy. A study of economic policy and practice in connection with such problems as farm tenancy and ownership, taxation, tariff, foreign trade, insurance, farm labor, production, and price control. *Prerequisite:* Agricultural Economics 1 and 2. *Second semester. Three credits.* Wittwer.

55. Rural Finance. Fundamental principles of credit and finance as applied to agriculture. Credit requirements of agriculture, existing agencies for supplying credit and ways and means of utilizing them; strength and weakness of present credit system and proposals for reform. *Junior year. First semester. Two credits.* Wittwer.

56. Land Economics. Deals with the underlying principles pertaining to urban, agricultural, mineral, forest, range, and

other types of land in their social setting. Attention is focused on land resources, their classification, valuation, and use and related problems of finance, including taxation and rents. *Prerequisite:* Agricultural Economics 1 and 2. *Second semester. Two credits.* Wittwer.

57. MARKETING OF AGRICULTURAL PRODUCTS. A study of the organization, functions and operations of the market structure and of marketing enterprises with special reference to the distribution of agricultural products. *Junior year. First semester. Three credits.* Wittwer.

64. COOPERATIVE ORGANIZATIONS. A study of the development of cooperation in agriculture in the United States and foreign countries. Analysis of principles and problems peculiar in cooperative associations. The organization, financing and management of different types of cooperative marketing and purchasing associations. *Junior year. Second semester. Two credits.* Wittwer.

65. AGRICULTURAL PRICES. A study of prices of farm products in relation to agricultural and industrial conditions. Factors determining prices. Price trends. Adjustment of production to price changes. Price stabilization. Prices and market grades. Price policies. Market quotations. *Senior year. First semester. Three credits.* Wittwer.

71. CURRENT ECONOMIC PROBLEMS. A course designed to acquaint the student with some of the major economic problems of our present day. *Prerequisite:* Agricultural Economics 1 and 2 or consent of instructor. *First semester. Two credits.* Wittwer. For credit only in the College of Agriculture.

76. FARM MANAGEMENT. The relation of capital and labor to farm management; the general management of implements and equipment; ownership versus rental of land; the choice of a farm; systems of farming; farming compared with other lines of business; marketing problems; the management of fields; crops and manures. *Prerequisite:* Senior standing. *Second semester. Three credits.* Titus.

84. RESEARCH AND EXTENSION ORGANIZATION AND METHODS. A study of extension and research organization and methods, with emphasis on economics and marketing problems. Agriculture's part in the war program, project planning, methods of collecting information, organizing data, preparing and presenting reports will be emphasized. *Prerequisites:* Junior standing or consent of instructor. *Second semester. Three credits.* Wittwer.

199–200. THESIS COURSE IN AGRICULTURAL ECONOMICS. *Either semester. Credit to be arranged.* Wittwer.

AGRONOMY

Professors SPENCER (Chairman of Soils Department), TITUS (Chairman of Farm Mechanics Department); Associate Professor DUNN.

1. SOIL EROSION AND CONSERVATION. A study of soil erosion conditions throughout the United States from an agronomic point of view. A study of the influence of high soil productivity and protective vegetative covering of the soil is emphasized as a means of controlling soil erosion and its conservation. Also stresses the importance of contour strip cropping and terracing on sloping lands. The use of hay and pasture grasses and legumes in controlling soil erosion is emphasized. *First semester. Lectures, two hours. Two credits.* Agriculture building.

2. FORAGE CROPS. Legumes and grasses, the special use of these crops as hay, soiling, silage, pasture, green manure, cover crops, etc.; the care and management of pastures; plans for the rotation of soiling crops; adaptation of grasses and other crops for growing under different climatic and soil conditions. *Second semester. Lectures, three hours. Three credits.*

5. FIELD CROPS. An advanced study of the principal cereal crops—corn, wheat, oats, barley, rye, rice, sorghum, etc. *First semester. Lectures, three hours. Three credits.*

7. SOIL MANAGEMENT. A general lecture and laboratory course in geology of soils, origin, formation, physical composition, soil moisture, moisture movements and conservation, physical processes, surface tension, osmosis, capillarity, aeration and temperature. Influence of erosion, drainage, and irrigation. *Prerequisite: Sophomore standing. First semester. Lectures, three hours. Three credits.* Fee $5.

46. WEEDS, AN ECONOMIC FACTOR IN AGRONOMY. Deals with the effects of weeds on farm values and crop production. Important weeds in the various crops and in the different sections of the United States. Method of weed eradication and control. Control of poisonous plant losses in livestock and methods of eradicating poisonous plants. A few field trips will be taken to observe weed infestations and control measures. *Lectures, two hours. Two credits.* Fee $3.

54. IRRIGATION AND DRAINAGE. A study of the principles of irrigation. Sources of water supply; measurements of water; water requirements of crops; duty of water; losses in use of irrigation water; preparation of land and methods of irrigation; farm ditches and structures; drainage of farm lands and reclamation of alkali lands. *Second semester. Lectures, three hours. Three credits.* Titus. Fee $2.

60. PASTURE MANAGEMENT. Grazing management of tame and native pastures, poisonous plants, and methods of eliminating losses. *Both semesters. Three credits.*

61. SOIL ANALYSIS. A laboratory course involving a study of the chemical analyses of soils. Determination of humus, organic matter, nitrogen, phosphorus, potassium, etc. A study is also made of the so-called quick tests for determining the fertilizer requirements of soil. *Prerequisites:* Senior standing, Chemistry 9 and 10. *Second semester. Laboratory course, three periods. Three credits.* Fee $10.

62. SOIL FERTILITY. Composition and value of fertilizers, barn-yard and green manures; maintenance and improvement of fertility; effect of various crops and different systems of farming on the fertility of the soil. Studies of crop rotation and fertility. Study of productivity and best uses of Nevada soils and their improvement. *Prerequisites:* Agronomy 1 and 7. *Second semester. Lectures, three hours. Three credits.*

63. FARM LAND VALUES. A lecture and field laboratory course dealing with physical properties of soils and crop adaptations. State water right laws, duties of water, acreage water charges in various sections of the State, possible acreage productions, carrying capacity of pastures, crop farm income and expenses, possible returns from sheep, dairy, livestock and poultry units, plating farms from deed descriptions, how to determine values of farm lands, methods of farm taxation, history, forming and operation of irrigation district, average crop and livestock sales prices. *First semester. Three credits.*

65. RANGE PRACTICE. Field work in range management, involving training in making range reconnaissance, estimating palatability and utilization, and conducting of technical range research. Some time also will be devoted to inspecting range improvement and making management plans. *Two lectures, one laboratory period. Three credits. First semester.*

66. ADVANCED SOIL CONSERVATION. History of soil erosion and control in various parts of the United States. Methods of soil conservation and erosion control. The Federal Soil Conservation, A. A. A., and Land Use Planning Programs as they pertain to soil conservation. Influence of varied cultural and grazing practices and type of plant cover upon soil erosion and conservation. *One laboratory period. Three credits. Second semester.*

67. PRINCIPLES OF RANGE MANAGEMENT. A basic course dealing with problems met in managing native range lands, including a study of grazing regions and problems of each; revegetation of range lands, maintenance of production, utilization of range forage. *First semester. Three credits.*

68. AGRONOMY SEMINAR. Deals with the work of various experiment stations and extension agencies, and also requirements and oportunities for college graduates in different fields of agricultural work. *One credit.* Fee $2.

76. HISTORY OF AGRICULTURE. A review of the history of organized agriculture together with a consideration of the various agrarian movements, their causes and effect. Review of the history of reclamation, of irrigation institutions, economics, water rights, etc. *Second semester. Three credits.*

92. SOIL SURVEY METHODS. *Summer Field Course.* Methods of mapping and classifying soils, the preparation of soil, reports; field work in soil surveying and field studies of the profile of representative Nevada soils. *Prerequisite:* Agronomy 5. *Four to six credits.*

94. RANGE SURVEY METHODS. Summer Field Course. Methods of mapping and classifying range areas of range lands, the preparation of range reports, field work in range surveying, and field studies of representative Nevada ranges. *Prerequisite:* Junior standing in Range Management. *Four to six credits.*

96. AGRONOMIC SURVEY METHODS. Summer Field Course. Methods of mapping and classifying forage, pasture, and field crop areas. Preparation of agronomic reports. Field work in crop surveying and field studies of representative Nevada farm areas. *Prerequisite: Junior standing. Four to six credits.*

157. ADVANCED FARM MANAGEMENT. A course for graduate students consisting of assigned special problems in farm management. *Either semester. Three to five credits.*

200. THESIS COURSE IN AGRONOMY. *Either semester. Credit to be arranged.*

Farm Mechanics

11. FARM BLACKSMITHING. Instruction and laboratory practice in the heating, bending, shaping, and welding of mild steel. Forging and tempering of tool steel; general farm blacksmithing. *First semester. Two credits.* Fee $5. Titus.

20. FARM UTILITIES. General mechanics including rope work, blocks and tackle, belts, pulleys, pipe fitting, farm plumbing, soldering, sheet metalwork, farm pumps, water supply, and sewage disposal. *Second semester. Two credits.* Fee $5. Titus.

32. FARM MACHINERY AND EQUIPMENT. A study of the construction, operation, care, and repair of farm machinery and equipment. *Second semester. Two credits.* Fee $3. Titus.

41. FARM CARPENTRY. Elementary drawing, use and care of wood working tools, general farm carpentry, painting, glazing,

farm building construction, blue print reading, cost estimating. *First semester. Two credits.* Fee $5. Titus.

53. FARM GAS ENGINES AND TRACTORS. The development, principles of operation, care, and repair of farm gas engines and farm tractors. Demonstrations and practice in the operation of farm tractors will be given whenever practicable. *First semester Two credits.* Fee $3. Titus.

85. METHODS OF TEACHING FARM MECHANICS. A course designed for students preparing to meet the qualifications of agriculture and farm mechanics instructors in high schools. The organization and administration of a farm mechanics course, including objectives, course content, lesson planning, and teaching methods. *First semester. Two credits.* Titus.

ANIMAL HUSBANDRY

Professor WILSON (Chairman of Department.)

1. BREEDS OF LIVESTOCK. The origin, development, characteristics, and uses of types and breeds of range and ranch animals. For illustration, the animals owned by the department and livestock ranches in the vicinity will be used, also lantern slides of typical animals of the various types and breeds. *First semester. Three credits.* Agriculture Building. Wilson.

3. LIVESTOCK JUDGING. Practice in judging livestock to gain familiarity with the points of excellence in the various breeds and types of range and ranch animals. *Prerequisite:* Animal husbandry 1. *First semester. Lectures, two hours; laboratory, two periods. Four credits.* Fee $10. Wilson.

30. LIVESTOCK FEEDING. The principles underlying and problems connected with the feeding of range and ranch animals. *Prerequisite:* Animal husbandry 1 and 4. *Second semester. Lectures, three hours. Three credits.* Wilson.

50. ANIMAL HYGIENE. A lecture course covering the principles of livestock sanitation and first aid. *Prerequisite:* Bacteriology 51. *Second semester. Three credits.* Vawter.

52. GENETICS. A discussion of the principles underlying the science of breeding, the aim of which is to develop, maintain, and improve the various types and breeds of ranch and range animals, studied with special reference to their application to breeding of range animals. *Prerequisite:* Zoology 2. *Second semester. Lectures, three hours. Three credits.* Wilson.

53. LIVESTOCK REGISTRATION. The details of registering pure-bred animals, requiring the use of blanks for making application for registry; the use of herd books. A study of the history of

the recognized registry associations and the rules governing them; a study of the value of pedigrees and how to keep the herd records. *Prerequisite:* Animal husbandry 1 and 4. *First semester. One credit.* Wilson.

55. ADVANCED LIVESTOCK FEEDING. Continuation of animal husbandry 30. *Prerequisite:* Animal husbandry 30. *First semester. Lectures, three hours. Three credits.* Wilson.

56. ADVANCED STOCK JUDGING. Comparative scoring and judging. The judging of animals in classes, as at fairs and stock shows. *Prerequisite:* Animal husbandry 4. *First semester. Three credits.* Fee $5. Wilson.

58. RANGE MANAGEMENT. Lectures covering the following subjects in animal husbandry: Development and proper distribution of stock salting grounds; rotation and proper location of drift fences; estimation of carrying capacity; methods of mapping in range lands; range destroying rodents; grazing administration within the National forests; various systems of handling range lands within the United States and in foreign countries; general range problems. *Prerequisite:* Animal husbandry 1, 4, 30; Botany 22. *Second semester. Three credits.* Wilson.

59. PROFESSIONAL JUDGING. *First semester. Laboratory, one period. One credit.* Given in alternate years. Fee $5. Wilson.

61–62. ANIMAL HUSBANDRY. Thesis course. Special problems in animal production and management. Problems relative to the open range under the provisions of the Taylor Grazing Act. *Prerequisite:* Animal husbandry 1, 4, 30, 51, 55, 57, 58. This course may be taken with course 58. *Either semester. Four to six credits.* Fee $3. Wilson.

63–64. ANIMAL HUSBANDRY LITERATURE. (Graduate credit given with the consent of the instructor.) A seminar course designed to help the student become familiar with the various sources of livestock information as well as to afford him practice in presenting such information for discussion. *Prerequisite: Junior standing. Both semesters. Two credits each semester.* The course may be repeated in the senior year for the same credit. Wilson.

66. LIVESTOCK MANAGEMENT. A study of the problems confronting the ranch and range; calculating profits under various conditions; systematic keeping of records of livestock operations; selection of animals for the feed yard, show ring, market, and butcher. *Prerequisite:* Animal husbandry 1, 3, 30. *Second semester. Three credits.* Wilson.

Ed. 86. TEACHER TRAINING IN AGRICULTURE. *See Education.*

Dairy Husbandry

1. DAIRYING. The composition and secretion of milk and causes of variation in its composition; the operation of the Babcock test as applied to milk and milk products; the various methods of cream-raising, including the study of the construction and operation of centrifugal separators; methods of making and marketing butter, with special reference to farm conditions, and the proper handling of milk on the farm will be discussed in the lectures. The laboratory work includes the testing of milk and other dairy products, operation of centrifugal cream separators, and the making and scoring of butter, and an observation of the essential points of the sanitary production and husbandry of dairy products. *Second semester. Lectures, two hours; laboratory, one period. Three credits.* Fee $5.

53. MILK PRODUCTION. Dairy husbandry in its relation to the producer of dairy products rather than the manufacturer. The lectures deal with the problems of the dairy farmer, such as adaptations of the dairy breeds, selection, management, feeding of dairy cattle, dairy barns, and calf-raising. The laboratory includes the judging of dairy cattle, visits to the local dairy farms and the observation of systems of dairy management followed by them. *Prerequisite:* Dairying 1. *First semester. Lectures, two hours; laboratory, one period. Three credits.* Fee $5.

54. BUTTER-MAKING. Laboratory practice in the manufacture of creamery butter and ice cream. Instruction will cover sampling and testing of cream; pasteurizing and ripening of cream for butter-making, churning, with special attention to the factors that control the composition of butter; preparing butter for the market; the preparation and use of home-made and commercial starters; creamery accounts; determining the amount of water in butter; testing for oleomargarine; manufacture of ice cream, sherbert, ices, lacto. *Prerequisite:* Dairying 1. *Second semester. Lecture, one hour; laboratory, two periods. Three credits.* Fee $10. (This course will not be given unless elected by five or more students.)

55. DAIRY SANITATION. This course is the application of bacteriology to the problems of the producer and consumer of milk. It deals with the fundamental principles upon which are based sanitary production and handling of milk, cream-ripening and curing of cheese, the market milk industry; the relations of milk to the public health and the important relations of butter- and cheese-making. *Prerequisite:* Dairying 1 and Zoology 2. *First semester. Lecture one hour. Laboratory, one period. Two credits.* Fee $5.

57. ADVANCED MILK PRODUCTION. Use of dairy herd books; special feeding for high records; interpretation of official tests. *Prerequisite:* Dairying 1. *First semester. Lectures, two hours. Two credits.* Wilson.

61–62. THESIS COURSE. Special problems in production or sanitation and city milk supply. Laboratory material is available through the dairies furnishing milk for the city of Reno. *Prerequisite:* Dairying 1 and 53 or 55. *Either semester. Two to six credits.* Fee $3. Wilson.

Poultry Husbandry

2. FARM POULTRY MANAGEMENT. Raising poultry under farm conditions. This course deals with the housing, raising of poultry, handling of stock for the market, and egg production, killing, dressing, diseases, hatching, and rearing of young chicks. Trips to local poultry farms. It is taught with special reference to farm conditions. *Second semester. Two lectures, one laboratory. Three credits.* Fee $5.

8. TURKEY PRODUCTION AND MANAGEMENT. This course deals with the practical management of turkeys, primarily for meat production. No laboratory period is arranged for, but about two trips are planned each year, one at marketing time and one at hatching and breeding time. *First semester. Two credits.* Fee $2.

ART

Mrs. JOSLIN, Mrs. ROOT.

Requirements for a minor in art: Art 1 and 2 (4 credits), Art 3 or 4 (2 credits), and 12 additional credits in the department, at least 6 of which must be in courses numbered 50 or above.

1–2. ELEMENTARY FREEHAND DRAWING. Principles of drawing, values and perspective taught in the freehand drawing of models and still-life in monochrome. Also rapid figure sketching in charcoal, conti, pencil, etc. *Both semesters. One or two credits per semester.* Fee $3. Joslin.

3–4. MODERN TRENDS IN ART EDUCATION. Techniques of handling art media—finger paint, clay, easel paint, chalk, watercolor, etc. Planned especially for elementary grade teachers who wish to use new methods in art teaching. *Both semesters. Two credits per semester.* Fee $3. Joslin.

5–6. ART STRUCTURE AND COMPOSITION. Principles which underlie all art. Study of color and design and the application of both to the problems of the home economics student. *Both semesters. Two credits per semester.* Fee $3. Joslin.

51–52. WATERCOLOR AND OIL PAINTING. The technique and

handling of watercolor and oils in still life and landscape. *Both semesters. Three credits per semester.* This course may be repeated for credit as 51A or 51B and 52A or 52B. Joslin.

53–54. ADVANCED FREEHAND DRAWING. Drawing from models and still-life in preparation for later work in portrait and life classes. Quick sketch class, also. *Both semesters. Three credits per semester.* Fee $3. This course may be repeated for credit as 53A or 53B and 54A or 54B. Joslin.

55–56. POSTER DESIGN AND SILK SCREEN PROCESS. Practical methods for reproduction of commercial design; poster, showcard, cartooning, etc. Silk-screen: a process, whereby each student may reproduce his own design on textiles, paper, leather, glass, etc. *Both semesters. Three credits per semester.* Root.

BIOLOGY

Professor LEHENBAUER; Associate Professors BILLINGS, LOWRANCE (Chairman of Department); Assistant Professor RICHARDSON.

The department of biology includes the following divisions: bacteriology, botany, horticulture, and zoology.

Requirements for a minor in biology, 9 credits in botany and 9 credits in zoology. Of these 18 credits, at least 6 must be in courses numbered 50 or above.

Requirements for a major in biology: A total of 27 credits of which not more than 15 may be in either botany or zoology. Of the 27 credits at least 12 must be in courses numbered 50 or above.

Students who intend to teach in secondary school are advised to take the combination minor or major in biology rather than the major or minor in either subject alone.

Bacteriology

51. GENERAL BACTERIOLOGY. A course of lectures and laboratory exercises on the morphology and life processes of the bacteria, with some references to allied organisms. The relationship of microorganisms to soil fertility, dairy products, water purity, sewage, and the production of disease will be considered. *Prerequisite:* Zoology 2, Botany 26, or Physiology 58. *First semester. Lectures, two hours; laboratory, two periods. Four credits.* Fee $5. 212 Agriculture Building. Lowrance.

Botany

Requirements for a minor in botany: Botany 1 (3 credits), Botany 21 (3 credits), Botany 22 (4 credits), Botany 26 (4 credits), and 4 additional credits in the division of botany in courses numbered 50 or above.

Requirements for a major in botany: Botany 1 (3 credits), Botany 21 (3 credits), Botany 22 (4 credits), Botany 26 (4 credits), and 12 additional credits in the division of botany in courses numbered 50 or above.

A year of chemistry is recommended for majors or minors in the division of botany.

Students planning to enter the field of forestry and range management should consult course of study listed in College of Agriculture.

1. General Botany. An introduction to the classification, structure, and physiology of the flowering plants. *Either semester. Two lectures; one laboratory period. Three credits.* Fee $4. 109 and 9 Agriculture Building. Billings and Lehenbauer.

21. The Structure and Development of the Seed Plants. A detailed study of their morphology and histology in relation to function. *First semester. One lecture; two laboratory periods. Three credits.* Fee $4. 8 Agriculture Building. Lehenbauer.

22. Taxonomy. A systematic and comparative study of the principal families of flowering plants represented in the local flora and the indentification of plants by means of manuals. *Prerequisite:* Botany 1. *Second semester. Two lectures; two laboratory periods. Four credits.* Fee $1. 9 Agriculture Building. Billings.

26. Cryptogamic Botany. The nonflowing plants as illustrated by representative types from the algae, fungi, mosses, and ferns. Representative gymnosperms also may be studied if time permits. *Second semester. Two lectures; two laboratory periods. Four credits.* Fee $4. 9 Agriculture Building. Lehenbauer.

27. Elements of Forestry. A general course dealing with the history and principles of forestry, and the economic and social importance of forests. *First semester. Two lectures and assigned readings. Two credits.* 7 Agriculture Building. Billings.

53. Dendrology. The intensive study of the taxonomy, silvics, and practical identification of the important North American forest trees. *Prerequisite:* Botany 22. *Second semester. One lecture; two laboratory periods. Three credits.* Fee $2. 8 Agriculture Building. Alternates with Botany 54. Billings.

54. Range Agrostology. The study of grasses, and practice in identification. Particular emphasis is given to range grasses. *Prerequisite:* Botany 22. *Second semester. One lecture; two laboratory periods. Three credits.* Fee $2. 8 Agriculture Building. Alternates with Botany 53. Billings.

55. Plant Physiology. Intensive study of the basic physiological processes in plants: photosynthesis, digestion, respiration, absorption, transpiration, nitrogen metabolism, mineral deficiencies, growth-promoting and growth-inhibiting substances.

Prerequisite: Botany 1 and 1 year of chemistry. *First semester. Two lectures; one laboratory period. Three credits.* Fee $4. 8 Agriculture Building. Billings.

56. APPLIED BOTANY. The applications of the fundamentals of plant physiology, morphology, genetics, etc., to the growing of plants. *Prerequisite:* Junior standing and at least six credits in botany. *First semester. Three credits.* 9 Agriculture Building. Lehenbauer.

64. MYCOLOGY AND AN INTRODUCTION TO PLANT PATHOLOGY. The study of fungi and bacteria. Diseases of economic plants, their causes, identification and control. *Prerequisite:* Botany 1 and preferably Botany 22. *First semester. Two lectures; two laboratory periods. Four credits.* Fee $4. 8 Agriculture Building. Lehenbauer.

68. WOOD TECHNOLOGY. The structure of economic woods with emphasis upon the identification of these woods by their physical properties and minute anatomy. *Prerequisite:* Botany 21. *Second semester. One lecture; two laboratory periods. Three credits.* Fee $2. 8 Agriculture Building. Lehenbauer.

70. BIOLOGICAL TECHNIC. The preparation of materials and permanent slides of plants and animal tissues for microscopic study. *Prerequisites:* Junior standing and at least six credits in biology. *Second semester, one lecture and a minimum of two laboratory periods.* Fee $2 per laboratory credit. Lehenbauer.

75–76. PLANT ECOLOGY. The relationships between natural vegetation and the factors of the environment; light, temperature, moisture, wind, topography, soil, and biotic. Plant association types and vegetational succession. The use of indicator plants in recognizing overgrazing, soil conditions, and forest sites. *Prerequisite:* Botany 22. *Both semesters. Four credits each semester. Three lectures; one laboratory period or field trip.* Fee $4 each semester. 7 Agriculture Building. Billings.

91–92. BOTANICAL PROBLEMS. Special problems in some field of botany. Assigned readings and reports. *Prerequisite:* The equivalent of two years of botany. *Either semester. One to four credits each semester.* 8 Agriculture Building. Lehenbauer and Billings.

93–94. BOTANICAL SEMINAR. The presentation by students of reviews and discussion of assigned reports of research in botanical literature. *Prerequisite:* Nine hours of botany and consent of instructors. *Both semesters. One meeting per week. One or two credits.* 7 Agriculture Building. Lehenbauer and Billings.

199–200. THESIS COURSE FOR GRADUATES.

Horticulture

1. HORTICULTURE. Plant propagation and ornamental horticulture. The principles of propagation. The culture and care of plants. The principles of ornamental gardening. *First semester. Three lectures and demonstrations; assigned readings. Three credits.* 9 Agriculture Building. Lehenbauer.

2. HORTICULTURE. Tree fruits, berries and vegetables. Growing fruit trees, berry and vegetable plants in the home orchard and garden. Pruning, grafting and propagation. Selection and identification of varieties. *Prerequisite:* Botany 1. *Second semester. Three lectures. Three credits.* 9 Agriculture Building. Lehenbauer.

Zoology

Requirements for a minor in zoology: zoology 1 or 2, zoology 9 or 11, zoology 50, and 8 credits in zoology courses above 50.

Requirements for a major in zoology: zoology 2, zoology 9, zoology 50, and 15 credits in other zoology courses above 50.

Additional courses advised: Physics 1–2 (or admission credit), general chemistry, qualitative and quantitative analysis and organic chemistry; German 1–2 and 3–4.

1. SURVEY OF ZOOLOGY FOR ARTS AND SCIENCE STUDENTS. A course introducing the fields of zoology and emphasizing their application to human interests and welfare as in the subjects of functioning of the body, disease, medicine, evolution, and heredity. Designed for general students. *First semester. Lecture, two hours; laboratory, one period. Three credits.* Fee $3. Agriculture Building. Richardson.

2. GENERAL ZOOLOGY. An introductory course dealing with the general principles of animal biology and the evolution of animal structures and functions. The laboratory work consists of the study of the structure, activities, and habits of typical species representing the principal animal groups and chosen as far as possible from local types. *Second semester. Two lecture and two laboratory periods. Four credits.* Fee $4. 110 and 211 Agriculture Building. Richardson.

9. COMPARATIVE ANATOMY OF VERTEBRATES. Lectures on the progressive development of structures and functions from the lower to the higher vertebrates, leading up to human anatomy. Laboratory dissection of the dog-fish, salamander, and a mammal. *Prerequisite:* Zoology 2. *First semester. Lectures, three hours; laboratory, two periods. Five credits.* Fee $6. 5 Agriculture Building. Richardson.

11. HUMAN ANATOMY. A course designed for prenursing and physical education students. Lectures on human anatomy. The laboratory includes demonstrations, a study of human anatomical preparations, and individual dissection of the cat or rabbit.

Prerequisite: Zoology 1 or equivalent. *First semester. Three lecture and two laboratory periods. Four credits.* Fee $6. Agriculture Building. Lowrance.

22. PARASITOLOGY. Introductory study of the relation of animals to the causation and transmission of disease. *Second semester. One lecture; one laboratory. Two credits.* Lowrance. Fee $3. This course will be offered in alternate years only.

50. GENETICS. A study of the fundamental principles underlying the inheritance of structural and physiological characters in animals and plants. *Prerequisite:* One semester of general botany or general zoology. *Second semester. Two lectures. Two credits.* Lowrance.

52. GENETICS LABORATORY. A laboratory course designed to accompany Zoology 50. *Prerequisite or Parallel:* Zoology 50. *One credit.* Fee $3. Lowrance.

55. EVOLUTION. The study of organic evolution, the fields of evidence for it, and explanations of just how it has taken and may be taking place. Modern species concepts are considered. *Prerequisite:* One year of college biology. *First semester. Two credits.* Agriculture Building. Richardson.

58. PHYSIOLOGY. Principles of animal physiology, with special reference to the human being. Zoology 1 or 2 and Chemistry 1 and 2 or 7 and 8 should precede this course. *Second semester. Lecture, three hours; laboratory, two periods. Five credits.* Fee $5. Lowrance.

59. GENERAL ENTOMOLOGY. An introductory study of insects, their structure, classification and life histories, and their relations to human interests. Frequent field trips for collection and observation are taken. *Prerequisite:* Zoology 1 or 2 or working knowledge of the subject. *First semester. Two lectures; one laboratory. Three credits.* Fee $4. Agriculture Building. Alternates with Zoology 63. Richardson.

60. FISH, REPTILES, AND BIRDS. A course especially designed for field workers, teachers, and naturalists. It includes a study of the classification, variety, habits, and economic importance of fish, reptiles, and birds. Regular field trips are taken for the careful identification and observation of local forms. *Prerequisite:* Zoology 1 or 2. *Second semester. Lecture, two hours; laboratory, one period. Three credits.* Fee $2. Agriculture Building. Alternates with Zoology 62. Richardson.

62. MAMMALS. A study especially of Nevada big game, fur bearers, and predatory mammals. Plan of study similar to Zoology 60. *Prerequisites:* Zoology 1 or 2. *Second semester.*

Lecture, two hours; laboratory, one period. Three credits. Alternates with Zoology 60. Fee $2. Agriculture Building. Richardson.

63. GAME MANAGEMENT. Conservation or regulated use as applied to game birds and mammals. Field trips and laboratory studies on observation and identification of western game species, and on application of management principles. *Prerequisite:* Zoology 60, 62, and Botany 22. *Second semester. Lecture, two hours; laboratory, one period. Three credits.* Alternates with Zoology 59. Fee $2. Agriculture Building. Richardson.

64. EMBRYOLOGY. Lectures on comparative embryology of vertebrates. The laboratory work consists of the study of preparations of the frog, chick, pig, and human embryos at various stages of development. *Prerequisite:* Zoology 2 and 9, or 57–58. *Second semester. Lectures, three hours; laboratory, two periods. Four credits.* Fee $3. 212 Agriculture Building. Lowrance.

68. HISTOLOGY AND ORGANOLOGY. Study of elementary tissues, and the study of the development and structure of vertebrate organs. *Three lectures. Two credits.* 212 Agriculture Building. Lowrance.

91–94. ADVANCED ZOOLOGY. Special zoological problems. Major students may select some problem for investigation under the direction of the instructor. Library reading, laboratory work, and reports. *Both semesters. Credits to be arranged.* 212 Agriculture Building. Lowrance and Richardson. Fee determined by type of work.

199. Thesis course for graduates.

BUSINESS

(See Economics, Business, and Sociology.)

CHEMISTRY

Professors SEARS (Chairman of Department), MOOSE, DEMING; Associate Professor WILLIAMS; Mr. D'ANTONIO, Mr. DRUMM, Mr. LEE, Mr. RAVVE.

Requirements for a minor in chemistry: Chemistry 1 (4 credits), 2 (2 credits), 6 (3 credits), either 9–10 (6 credits) and 5 additional credits in the department in courses numbered 50 or above.

Requirements for a major in chemistry: Chemistry 1 (4 credits), 2 (2 credits), 6 (3 credits), 9–10 (6 credits), 51–52 (8 credits), 95–96 (1 credit), and 4 additional credits in the department in courses numbered 50 or above.

Requirements for the degree Bachelor of Science in Chemistry: See outline for Course of Study, page 124.

1. GENERAL INORGANIC CHEMISTRY. A lecture and laboratory course covering the fundamental principles of chemistry and the properties and uses of the more common nonmetallic elements. Designed as a first course in college chemistry. *First semester. One lecture, two recitations, two two-hour laboratory periods. Four credits.* Mackay Science Hall. Sears and Staff.

2. GENERAL CHEMISTRY OF THE METALS. A lecture course covering the general chemistry of the metals and of certain nonmetals not covered in Chemistry 1. *Prerequisite:* Chemistry 1. *Second semester. Two lecture or recitation periods. Two credits.* Mackay Science Hall. Sears and Staff.

4. ELEMENTARY ORGANIC CHEMISTRY. A lecture and laboratory course dealing primarily with the aliphatic carbon compounds. Must be taken concurrently with or following Chemistry 2. *Second semester. Two lectures and one laboratory period. Three credits.* Fee $4. Mackay Science Hall. Williams.

6. QUALITATIVE ANALYSIS. A lecture and laboratory course dealing with the principles and technique of the systematic qualitative analysis. Must be taken concurrently with or following Chemistry 2. *Second semester. One lecture and two laboratory periods. Three credits.* Fee $8. Mackay Science Hall. Staff.

6A. QUALITATIVE ANALYSIS. The same as Chemistry 6 except that there is only one laboratory period per week. Must be taken concurrently with or following Chemistry 2. Cannot be used for a major or minor in chemistry. *Second semester. One lecture and one laboratory period. Two credits.* Fee $4. Staff.

9–10. QUANTITATIVE ANALYSIS. A lecture and laboratory course dealing with the fundamental principles and techniques of accurate volumetric and gravimetric methods of analysis. Special emphasis will be given to calculation needed for quantitative determinations. *Prerequisite:* Chemistry 2 and 6 or 6A. *Both semesters. One lecture and two laboratory periods. Three credits each semester.* Fee $8. Mackay Science Hall. Williams.

25. PHYSIOLOGICAL CHEMISTRY. A lecture and laboratory course dealing with the special types of organic compounds, essential to the fundamental physiological processes. *Prerequisite:* Chemistry 2 and 4. *First semester. Three lectures and two laboratory periods. Five credits.* Fee $8. Morris.

51–52. ORGANIC CHEMISTRY. A lecture and laboratory course dealing with the compounds of carbon. *Prerequisite:* Chemistry 10. *Both semesters. Two lectures and two laboratory periods. Four credits each semester.* Fee $8. Mackay Science Hall.

53. QUALITATIVE ORGANIC ANALYSIS. (Graduate credit given

with consent of instructor.) A lecture and laboratory course. A study of the methods available for the detection and indentification of organic compounds. *Prerequisite:* Chemistry 52. *First semester. Two lectures and two laboratory periods. Four credits.* Fee $8. Mackay Science Hall.

54. ADVANCED ORGANIC CHEMISTRY. (Graduate credit given with consent of instructor.) A lecture course of advanced topics in aliphatic organic chemistry. Modern theories will be discussed with particular emphasis placed on the physical aspects of the subject. *Prerequisite:* Chemistry 51–52. *Second semester. Two lectures. Two credits.* Mackay Science Hall. Williams.

56. ADVANCED ORGANIC CHEMISTRY. (Graduate credit will be given with consent of instructor.) A laboratory course designed to give the student training in the methods of quantitative organic analysis. Included in the course will be methods of analysis by combustion; the determination of organic halogen; active hydrogen; molecular weight determinations by the Rast method. Whenever possible, semimicro methods will be used. At the request of a sufficient number of students, biochemical analyses will be included with, or substituted for, the above analytical procedures. *Prerequisite:* Chemistry 52. *Second semester. Two laboratory periods. Two credits.* Fee $8. Mackay Science Hall. Williams.

64. SPECIAL PROBLEMS. A laboratory course designed to give the student training in various special fields. Water and gas analysis, potentiometric titrations, conductometric titrations, analysis of foods, minerals, etc., may be taken up. To be arranged by consultation with the head of the department. *Any semester. Two credits.* Fee $8. Mackay Science Hall. Sears and Staff.

71. ADVANCED ANALYTICAL CHEMISTRY. A lecture and laboratory course designed particularly for chemistry and mining students but open to all students desiring a more complete knowledge of analytical methods. *Prerequisite:* Chemistry 10. *First semester. One recitation and two laboratory periods. Three credits.* Fee $8. Mackay Science Hall. Sears.

72. ADVANCED INORGANIC CHEMISTRY. (Graduate credit given with consent of instructor.) A lecture and laboratory course involving some of the more difficult inorganic reactions and technic. Special emphasis will be given to the chemistry and technology of the more important light metals including lithium, beryllium, magnesium and aluminum. *Prerequisite:* Chemistry 71. *Second semester. One lecture and two laboratory periods. Three credits.* Fee $8. Mackay Science Hall. Sears.

74. CHEMISTRY OF THE RARER METALS. (Graduate credit given with consent of instructor.) A laboratory course designed to give a more intimate knowledge of the elements. Emphasis will be given to their analytical relations and to the preparation and properties of the metals and their more important compounds. *Prerequisite:* Three years of college chemistry. *Second semester. Two laboratory periods. Two credits.* Fee $8. Mackay Science Hall. Sears.

75. THE PERIODIC LAW. (Graduate credit given with consent of instructor.) A lecture and seminar course designed to give the student a rather intimate knowledge of the less common elements and their relation to the more common elements. A critical study is made of the periodic law and of the more important periodic tables in the light of recent developments in atomic structure and the known properties of the elements. Practical use is made of the periodic law to correlate the facts of chemistry. *Prerequisite:* Three years of college chemistry. *First semester. Three lectures. Three credits.* Mackay Science Hall. Sears.

80. INTRODUCTION TO PHYSICAL CHEMISTRY. A lecture course designed to illustrate the applications of physical methods to chemical problems. This course is planned primarily for engineering and pre-medical students desiring a short introductory course and for chemistry students whose previous work indicates a need of more thorough preparation for Chemistry 83–84. *Prerequisite:* Chemistry 10 or 26. *Second semester. Two lectures. Two credits.* Mackay Science Hall. Deming.

83–84. PHYSICAL CHEMISTRY. (Graduate credit given with consent of instructor.) A lecture and laboratory course based on the application of the laws of physics and of the methods of calculus to problems of physical and chemical equilibria. *Prerequisite:* Chemistry 10, Physics 2a, Mathematics 24. *Both semesters. Three lectures and one laboratory period. Four credits each semester.* Fee $4. Mackay Science Hall. Deming.

85. ELECTROCHEMISTRY. (Graduate credit given with consent of instructor.) A lecture and laboratory course designed to follow Chemistry 84 and give a more thorough training in the theory and use of Electrochemical Cells. *Prerequisite:* Chemistry 84. *First semester. One lecture and two laboratory periods. Three credits.* Fee $8. Mackay Science Hall. Deming.

86. THE PHASE RULE. (Graduate credit given with consent of instructor.) A lecture and laboratory course designed to follow Chemistry 83 and give a more thorough training in the theory and application of Gibb's Phase Rule. *Prerequisite:* Chemistry

83. *Second semester. One lecture and two laboratory periods. Three credits.* Fee $8. Mackay Science Hall. Deming.

92. HISTORY OF CHEMISTRY. (Graduate credit given with the consent of the instructor.) A lecture course on the history and development of the science of chemistry. *Prerequisite:* Three years of college chemistry. *Second semester. Two credits.* Mackay Science Hall. Deming.

95–96. CURRENT CHEMICAL LITERATURE. (Graduate credit given with consent of instructor.) A seminar course designed to help the student become familiar with the various sources of chemical information as well as to afford him practice in summarizing such information for discussion. Each student will be required to present two reports each semester upon an assigned topic. The class will meet not oftener than once each week for the presentation and discussion of assigned topics. *Prerequisite:* Two years of college chemistry. *Both semesters. One credit per year.* May be repeated for credit. Mackay Science Hall. Staff.

99–100. THESIS COURSE FOR UNDERGRADUATES. A laboratory and library course based on a special topic chosen from inorganic, analytical, organic or physical chemistry. Careful quantitative work is stressed. To be arranged by consultation with the instructors. *Prerequisite:* Chemistry 15, 51, and 84, German, and recommendation by the head of the department. *Both semesters. Two credits.* Fee $8. Mackay Science Hall. Sears and Staff.

101–102. ADVANCED PHYSICAL CHEMISTRY. A lecture course dealing with the thermodynamic functions and their partial derivatives. *Prerequisite:* Chemistry 84. *Both semesters. Two lectures. Two credits.* Mackay Science Hall. Deming.

200. THESIS COURSE FOR GRADUATE STUDENTS. Special problems for research chosen in consultation with some member of the department and carried on under his direction. No student will be admitted to this course who has not completed four years of work in chemistry and graduated from an approved college. *Both semesters. Credits to be arranged.* Fee $4 per credit hour, according to work. Mackay Science Hall. Sears and Staff.

CIVIL ENGINEERING

Professors BLODGETT (Chairman of Department), BIXBY; Mr. POOLMAN.

41. PLANE SURVEYING. An introductory course designed to acquaint the student with the fundamental principles of plane

surveying and the instruments used in ordinary plane surveying operations. *Prerequisite:* Mathematics 16. *Two classroom periods and one field period. Three credits.* Laboratory fee $3.

42. PLANE SURVEYING. A continuation of Civil Engineering 41 leading to a detailed study of topographical surveying methods, field astronomy, and other problems usually encountered in civil engineering practice. *Prerequisite:* Civil Engineering 41. *Three classroom periods and two field or drawing room periods. Five credits.* Laboratory fee $5.

45. ENGINEERING PROBLEMS. The systematic solution of typical problems encountered in engineering practice. The use of the slide rule and other computational aids is contemplated. *Prerequisite:* Mathematics 16. *One classroom period and one drawing room period. Two credits.*

46. CONSTRUCTION MATERIALS. A detailed study of the course, manufacture, and use of the materials ordinarily used in construction and machines. *Prerequisite:* Sophomore standing in engineering. *Two classroom periods. Two credits.*

61–62. HYDRAULICS. A course designed to give a sound working knowledge of the laws concerning the flow of water through open and closed conduits and metering devices. Hydrostatic problems are also considered. Civil engineering students enroll for Civil Engineering 67. *Prerequisite:* Mathematics 28. *Three classroom periods. Three credits.*

63. ROUTE SURVEYING. A study of the factors involved in the location of routes and the computation of quantities of earthwork for highways, canals, railways, and similar routes. *Prerequisite:* Civil Engineering 42. *Two classroom periods and two field or drawing room periods. Four credits.* Laboratory fee $5.

64. HYDROLOGY. The fundamental principles of hydrology and its related problems of climatology, stream-flow, run-off, underground water and snow surveys. *Prerequisite:* Junior standing in engineering. *Three classroom periods. Three credits.*

66. ROADS AND HIGHWAYS. A study of the various types of street and highway construction with consideration of the natural and economic factors which influence the selection and location of streets and highways. *Prerequisite:* Civil Engineering 42. *Three classroom periods. Three credits.*

67. ELEMENTARY FLUID MECHANICS. This course devotes considerable time to the study of fluids, including water, at rest and in motion. A sound understanding of practical hydraulics is not overlooked. *Prerequisite:* Mathematics 28. *Three classroom*

periods and two laboratory or computation periods. Five credits. Laboratory fee $5.

69. NONMETALLIC TESTING LABORATORY. A laboratory course affording a study of the physical properties of the nonmetallic materials used in construction, including soils, hydraulic cements, concrete, stone, brick, tile, timber, and bituminous materials. *Prerequisite:* Mathematics 28. *One laboratory period. One credit.* Laboratory fee $4.

72. STRENGTH OF MATERIALS. The application of the principles of mathematics and mechanics to engineering problems involving beams, columns, shafts, and other structural units or machine parts. A consideration of the physical properties of the usual materials from which these units and parts are made. *Prerequisite:* Mathematics 55. Civil Engineering students enroll in Civil Engineering 76. *Three classroom periods. Three credits.*

74. METALS TESTING LABORATORY. A laboratory course giving an opportunity for the detailed study of the physical properties of the metals generally used in engineering operations. This course is coordinated with, and supplements Civil Engineering 76. *Prerequisites:* Mathematics 55. *One laboratory period. One credit.* Laboratory fee $4.

76. MECHANICS OF MATERIALS. A more extensive course than Civil Engineering 72. *Prerequisite:* Mathematics 55. *Three classroom periods and one laboratory or computation period. Four credits.*

78. FRAMED STRUCTURES. An introductory presentation of the classification and analysis of simple (statically determinate) structural frames. Algebraic and graphical methods are presented. Loadings are fully considered. *Prerequisite:* Mathematics 55. *Two classroom periods and two drawing room periods. Four credits.*

81. FRAMED STRUCTURES. A continuation of Civil Engineering 78 and an extension to include deflections of simple frames, the analysis of statically indeterminate trusses, and elementary structural design. *Prerequisite:* Civil Engineering 78. *Two classroom periods and two drawing room periods. Four credits.*

84. STRUCTURAL DESIGN. Comprehensive and total problems in the structural design of typical engineering structures. *Prerequisite:* Civil Engineering 81. *One classroom period and three drawing room periods. Four credits.*

85. MECHANICS OF REINFORCED CONCRETE. The design and analysis of structural members and units constructed from reinforced concrete. An introduction to the stress analysis of rigid

and continuous frames. *Prerequisite:* Civil Engineering 76. *Three classroom periods. Three credits.*

86. REINFORCED CONCRETE DESIGN. A continuation of Civil Engineering 85 with emphasis upon the total design of typical engineering structures wherein the use of reinforced concrete predominates. *Prerequisite:* Civil Engineering 85. *One class room period and two drawing room periods. Three credits.*

87. HIGHWAY ENGINEERING. A continued and more detailed study of topics introduced in Civil Engineering 66, with supplementary information abstracted from current Road Builders publications and periodicals. *Prerequisite:* Civil Engineering 63, 66. *Three classroom periods. Three credits.*

88. ENGINEERING ECONOMY. The principles of cost comparison and the selection of the most economical arrangement of the component parts of engineering structures. *Prerequisite:* Senior standing in engineer. *Two classroom periods. Two credits.*

89. SANITARY ENGINEERING. The collection, treatment, and distribution of portable water supplies. The Public Health aspects are contemplated. *Prerequisite:* Civil Engineering 64, 67. *Three classroom periods. Three credits.*

90. SANITARY ENGINEERING. The collection, treatment and distribution of storm and domestic sewage and industrial wastes. The Public Health aspects are contemplated. *Prerequisite:* Civil Engineering 89. *Three classroom periods. Two credits.*

91. CONTRACT AND SPECIFICATIONS. An elementary presentation of the basic legal and ethical principles of importance to the engineer engaged in preparing specifications and letting contracts for public or private construction. *Prerequisite:* Junior standing in engineering. *Two classroom periods. Two credits.*

92. FOUNDATIONS. A study of the principles and practices of the design and construction of foundations for engineering structures. *Prerequisite:* Civil Engineering 78, 85. *Two classroom periods. Two credits.*

94. IRRIGATION ENGINEERING. A study is made of the collection, storage, and distribution of water for irrigation, with emphasis on the engineering aspects of these problems. *Prerequisite:* Civil Engineering 64, 67, 81, 85. *Three classroom periods. Three credits.*

110. HYDRAULICS OF OPEN CHANNELS. Elective. An advanced study of the flow of water through open channels. *Prerequisite:* Civil Engineering 67. *Two classroom periods. Two credits.*

111. HYDRAULIC MACHINERY. Elective. The theory, construction, operation, and characteristics of hydraulic turbines, pumps,

and other hydraulic machinery. *Prerequisite:* Civil Engineering 67. *Two classroom periods. Two credits.*

114. ADVANCED HYDRAULIC PROBLEMS. Elective. Offers an opportunity for the superior student to undertake detailed studies in the field of hydraulics not dealt with in other courses. *Prerequisite:* Civil Engineering 67. *Credits to be arranged.*

120. ADVANCED STRUCTURAL DESIGN. Elective. This course affords the interested student an opportunity for more extensive studies in the field of structural design and stress analysis than is possible in previous courses. *Prerequisite:* Civil Engineering 84, 86. *Three credits.*

121. ADVANCED STRUCTURAL DESIGN. Elective. A continuation of Civil Engineering 120 affording the superior student an opportunity for specialized study in the field of structural design and stress analysis. *Prerequisite:* Civil Engineering 120. *Credits to be arranged.*

124–125. SPECIAL ENGINEERING PROBLEMS. Elective. This course makes catalog provision for specialized study in any of the subjects pertaining to civil engineering. The subject matter and credit may be arranged after conference with the Staff members and Administrative officers concerned.

200. GRADUATE RESEARCH OR THESIS. This course makes catalog provision for advanced study in specialized fields and is expected to include the writing of a suitable report or thesis. The subject matter and credit may be arranged after conference with the Staff members and Administrative officers concerned.

DAIRY HUSBANDRY

(See Animal Husbandry)

ECONOMICS, BUSINESS, AND SOCIOLOGY

Professors INWOOD (Chairman of Department), WEBSTER; Assistant Professors PLUMLEY, CHADWICK (on leave); Mr. PALMER, Mr. SKINNER, Mr. SWARTZ, Mrs. WEAVER.

Requirements for the degree BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION: See course of study outlined on page 153.

Requirements for a minor in economics: Economics 1–2 (6 credits); 12 additional credits in economics or business courses, not less than 6 of which shall be in courses numbered 50 or above.

Requirements for a major in economics: Economics 1–2 (6 credits), economics 91–92 (6 credits); business administration 43–44 (6 credits), and 9 additional credits in economics or business courses, which shall be in courses numbered 50 or above.

Requirements for a minor in sociology: Economics 1–2, (6 credits), sociology 1 (3 credits), and 9 additional credits in sociology, not less than 6 of which shall be in courses numbered 50 or above.

Requirements for a major in sociology: Economics 1–2 (6 credits),

sociology 1 (3 credits), sociology 71 and 90 (6 credits), and 12 additional credits which shall be in sociology courses numbered 50 or above.

The following courses are recommended but not required for minors and majors in economics: Philosophy 7–8, psychology 5, 51, 61, 64, mathematics 18–20, French and German.

Requirements for a major in commercial education (for students qualifying for the high school teachers certificate in commercial subjects): Economics 1–2 (6 credits), business administration 43–44 (6 credits), business administration 47 (3 credits), business administration 51 (3 credits), business administration 53 (2 credits), and at least seven additional credits selected from the following: Economics 53, 58, and business administration 55–56, 68.

Economics

1. Principles of Economics. An introduction to economic theory. A discussion of economic problems together with economic principles applicable to their solutions. *Prerequisite:* Sophomore standing. *Either semester. Three credits.* Education Building. Staff.

2. Principles of Economics. A continuation of economics 1. *Either semester. Three credits.* Education Building. Staff.

3. Economics for Engineers. Consideration of economic problems and principles with special emphasis on the engineering point of view. College of Engineering students only. *First Semester. Three credits.* Education Building. Staff.

7. Economic Geography. Resources and industries of the world with special reference to their bearing on geographic specialization and international trade. *First semester. Two credits.* Open to freshmen. Education Building. Inwood.

10. Economic History of the United States. Introductory historical treatment of the economic development of America. *Second semester. Two credits. Open to freshmen.* Education Building. Inwood.

18. Consumer Economics. A study of the consumer from the standpoint of family buying and financial management, marketing and income distribution. *Prerequisite:* Economics 1. *Second semester. Three credits.* Education Building.

51. Public Finance. Public expenditures and sources of public revenue. *Prerequisite:* Economics 1–2. *First semester. Three credits.* Education Building.

53. Money and Banking. *Prerequisite:* Economics 1-2. *First semester. Three credits.* Education Building. Plumley.

54. Public Utilities. The development, organization, characteristics and legal status of public service enterprises. *Prerequisite:* Economics 1–2. *Second semester. Three credits.* Education Building.

56. INSURANCE. *Prerequisite:* Economics 1–2, Business 41. *Second semester. Two credits.* Education Building. Plumley. (Offered in even-numbered years.)

58. INTERNATIONAL TRADE. Theory of international trade. Tariffs and tariff history. *Prerequisite:* Economics 1–2. *Second semester. Two credits.* Education Building. Inwood.

61. STATISTICAL METHODS. Elementary statistical methods as used in business and in the social sciences. *First semester. Two lectures and one laboratory period per week. Three credits.* Education Building. Plumley.

62. TRANSPORTATION. The growth and development of transportation in the United States with emphasis on bases of rate structures and regulation. *Prerequisite:* Economics 1–2, Business 41. *Second semester. Two credits.* Education Building. Plumley. (Offered in odd-numbered years.)

63. ECONOMIC HISTORY OF EUROPE. The economic background of national and international development during ancient, medieval and modern times. *First semester. Two credits.* Education Building. Inwood.

64. LABOR ECONOMICS. A study of the wage earner, his compensation and problems of insecurity together with industrial and governmental solutions. *Prerequisite:* Economics 1–2. *Second semester. Three credits.* Education Building. Plumley.

73. BUSINESS CYCLES. *Prerequisite:* Economics 1–2. *First semester. Three credits.* Education Building. Plumley.

91. HISTORY OF ECONOMIC THEORY. *Prerequisite:* Economics 1–2. *First semester. Three credits.* Education Building.

92. ADVANCED ECONOMIC THEORY. *Prerequisite:* Economics 1–2. *Second semester. Three credits.* Education Building.

Business

11–12. STENOGRAPHY. Gregg Shorthand. Students must also take Business 21–22, unless they have had equivalent training. Students who have had one year of high school shorthand may not take this course for credit. *Both semesters. Two credits each semester.* Education Building. Weaver.

15–16. ADVANCED STENOGRAPHY. Speed and accuracy development in Gregg shorthand. Study of stenographic duties and techniques essential for business employment. *Prerequisite:* Business 11–12, or one year of high school shorthand. *Both semesters. Two credits each semester.* Education Building. Weaver.

21–22. TYPEWRITING. Touch Typing. Rhythm drills; dictation exercises; arrangement of business letters. Students with one year of high school typing may not take Business 21 for credit. Credit allowed only upon attainment of prescribed production requirements. *Both semesters. Two credits each semester.* Fee $5 per semester. Education Building. Weaver.

41. FUNDAMENTALS OF BUSINESS ORGANIZATION. An introductory survey of problems and methods of business administration. *Prerequisite:* Sophomore standing. *First semester. Three credits.* Education Building. Inwood.

43–44. ELEMENTARY ACCOUNTING. Accounting theory and practice. Problems and practice sets. *Prerequisite:* Sophomore standing. *Two lectures and one laboratory period per week. Both semesters. Three credits each semester.* Education Building. Palmer.

47. BUSINESS LAW. A comprehensive study of the forms and procedure with respect to law of contracts, negotiable instruments and general commercial practice. *First semester. Three credits.* Education Building. Skinner.

51. ADMINISTRATION OF BUSINESS. Various types of business organization and the handling of administrative problems arising therein. *For commercial education majors only. First semester. Three credits. Education Building.* Inwood.

53. OFFICE MANAGEMENT. A study of general clerical and office practice, includes a study of filing, general business forms, procedures governing the handling of mail, duplicating machines, general business machines. *First semester. Two credits.* Education Building. Inwood. (Offered in even-numbered years.)

55–56. ADVANCED ACCOUNTING. Advanced theory of accounts and its application. Selected problems and readings. *Prerequisite:* Business 43–44. *Both semesters. Three credits each semester.* Education Building. Palmer.

63. REAL ESTATE. Principles of real property ownership and real estate practice. Property management, subdividing and developing, zoning and its effects. *First semester. Two credits.* Education Building. Inwood. (Offered in odd-numbered years.)

65. ADMINISTRATION OF FINANCE. Principles and problems of financing business enterprises. *Prerequisite:* Business 41. *First semester. Three credits.* Education Building. Plumley.

66. INDUSTRIAL MANAGEMENT. Internal organization and control of different forms of business enterprise. *Prerequisite:* Business 41. *Second semester. Three credits.* Education Building. Inwood.

67. PERSONNEL MANAGEMENT. Selection, placement, and efficiency of personnel. Employer-employee relationships. *Prerequisite:* Business 41. *First semester. Two credits.* Education Building. Inwood.

68. MARKETING. A study of distribution methods and costs together with advertising and sales promotion methods. *Prerequisite:* Economics 1–2. *Second semester. Three credits.* Education Building. Inwood.

70. INVESTMENTS. Selection, appraisal, and shifting of capital investments. *Prerequisite:* Business 41. *Second semester. Two credits.* Education Building. Plumley.

71. MERCHANDISING. Operation of retail stores treating specificially store organization, lay-out, and principles of salesmanship and customer service. *First semester. Two credits.* Education Building.

72. ECONOMICS OF ADVERTISING. Methods of evaluation, criticism, purchase and control of advertising by the business man; social and economic aspects of advertising; organization and research in advertising; selection of media and planning of campaigns; social control of advertising. (Psychology 57 recommended.) *Second semester. Two credits.* Education Building.

74. ADVANCED BUSINESS LAW. An advanced course in business law for those who are specializing in a preparation for business. *Prerequisite:* Business 47. *Second semester. Three credits.* Education Building. Skinner.

85. COST ACCOUNTING. A comprehensive study of all elements of manufacturing cost accounting. *Prerequisite:* Business 43–44. *First semester. Three credits.* Education Building. Palmer.

86. FEDERAL TAX ACCOUNTING. Study of the history of the Federal income tax; Federal revenue Acts and their interpretation. Actual preparation of individual, partnership and corporation income tax returns, important Treasury Department decisions on income tax problems. *Prerequisite:* Business 43–44. *Second semester. Two credits.* Education Building. Palmer.

92. AUDITING. The principles and practice of auditing. Practice problems. *Prerequisite:* Business 43–44. *Second semester. Three credits.* Education Building. Palmer.

Sociology

1. PRINCIPLES OF SOCIOLOGY. The fundamentals of social processes and evolution. *Prerequisite:* Sophomore standing. *First semester. Three credits.* Education Building. Webster.

2. SOCIAL PROBLEMS. The major problems of modern social life and their remedies. *Second semester. Three credits.* Education Building. Webster.

50. RURAL SOCIOLOGY. Rural life and problems with special reference to Nevada conditions. *Second semester. Two credits.* Education Building. Webster.

57. CULTURAL ANTHROPOLOGY. Primitive cultures as a basis for modern social organization. *First semester. Two credits.* Education Building. Webster.

70. SOCIAL CONTROL. The social processes providing control of behavior. *Second semester. Two credits.* Education Building. Webster.

71. SOCIAL ORGANIZATION. The structure, forms, functions and development of major social groups and institutions. *First semester. Three credits.* Education Building. Webster.

79. RACE PROBLEMS. The social significance of race and racial minorities. *First semester. Two credits.* Education Building. Webster.

80. THE FAMILY. Forms and functions of the family as a social institution. Emphasis on present trends. *Second semester. Two credits.* Webster.

81. PROVERTY AND DEPENDENCY. Causes of economic inefficiency. Methods used in relief. *Prerequisite:* Economics 1–2. *First semester. Two credits.* Education Building. Webster. (Offered in odd-numbered years.)

83. POPULATION. The social and economic significance of numbers and quality of population. Migration. *First semester. Two credits.* Education Building. Webster. (Offered in even-numbered years.)

84. SOCIAL SECURITY. Theory and development of modern provisions for economic security. Emphasis upon old age and unemployment in the United States. *Prerequisite:* Economics 1–2. *Second semester. Two credits.* Education Building. Webster. (Offered in odd-numbered years.)

86. METHODS IN SOCIAL WORK. Principles and methods in applied sociology. *Prerequisite:* Sociology 1 and 2. *Second semester. Two credits.* Education Building. Semenza.

90. ADVANCED SOCIAL THEORY. Emphasis upon modern schools of social thought. *Prerequisite:* Sociology 1. *Second semester. Three credits.* Education Building. Webster.

EDUCATION

Professors TRANER (Chairman of Department), BROWN; Associate Professor RUEBSAM; Assistant Professor PUFFINBARGER (on leave); Mr. DOWLER, Miss HUBER, Miss KLAUS.

It is recommended that students present a major and a minor in departments other than Education to meet the Arts and Science requirements; students may submit Education as a second major or minor. Only in special cases should Education be used as the only major or minor.

Requirements for a minor in Education: 18 credits in Education, of which at least 6 credits must be in courses numbered 50 or above.

Requirements for a major in Education: 27 credits in Education, approved by the Dean, of which at least 12 must be in courses numbered 50 or above.

Kindergarten Primary Education

11. GAMES FOR THE PRE-SCHOOL CHILD AND FOR THE FIRST THREE GRADES. Recommended for those interested in kindergarten and primary grades. *Either semester. One credit.* Sameth.

12. FOLK DANCES, GAMES, AND CREATIVE ACTIVITIES FOR KINDERGARTEN, FIRST AND SECOND GRADES. *Two periods. One credit.*

13. FOLK DANCING FOR SENIOR HIGH SCHOOL. Special attention to material suitable for the senior high school. The course will consist of teaching, preferably of recreation groups, and of class discussion. *One semester. One credit.*

17. KINDERGARTEN-PRIMARY EDUCATION. This course deals with kindergarten-primary education as a unified experience, emphasizing the history, theory and curriculum of the kindergarten and primary grades. *First semester. Two credits.* Ruebsam.

18. THE KINDERGARTEN-PRIMARY CURRICULUM. This course includes emphasis upon the various phases of the kindergarten-primary course of study (art, music, games, dances, rhythms, nature study, etc.). *Second semester. Two credits.* Ruebsam.

19. LITERATURE IN THE KINDERGARTEN-PRIMARY GRADES. Children's stories as a background to literature will be considered in the course, with practical guidance in selection and teaching. The relation of literature to the activities program will be shown through built-up reading lessons, dramatizations, and simple puppetry. The artistic presentation of poetry as a joyous experience will be included. (Given in alternate years beginning 1941.) *First semester. Two credits.* Ruebsam.

25A. OBSERVATION OF TEACHING. Observation and discussion of specific classroom work in the kindergarten-primary grades as

a preparation for practice teaching. *First semester. One credit.* Ruebsam.

28–29. SUPERVISED TEACHING IN KINDERGARTEN - PRIMARY GRADES. Opportunity for teaching open to normal school students and to four-year students desiring to qualify for the elementary teaching certificate. Students enrolled must have had or be taking education 34. Students teach two subjects, one hour daily. *Either semester. Five credits.* Ruebsam.

34. THE TEACHING OF READING AND ENGLISH. Principles underlying the selection and presentation of subject matter for the primary grades. This includes beginning reading, activities, seat work, and tests in reading. Picture studies, stories, dramatization, sentence structure, compositions, and poetry comprise the work in language. *Second semester. Three credits.* Ruebsam.

41. CONSTRUCTIVE ACTIVITIES FOR KINDERGARTEN - PRIMARY GRADES. This course is devoted to a consideration of the materials by means of which the child organizes and expresses his ideas and establishes desirable attitudes and habits. (Given in alternate years beginning in 1940.) *First semester. Two credits.* Fee $2. Ruebsam.

53. EARLY GROWTH AND DEVELOPMENT OF THE SCHOOL CHILD. A study of the factors affecting the physical, motor, intellectual, social, and emotional development of the child through the primary grades of school. (Given in alternate years beginning in 1942.) *First semester. Two credits.* Ruebsam.

54. AUXILIARY SUBJECTS IN THE KINDERGARTEN-PRIMARY CURRICULUM. An intensive study of the contribution of such subjects as arts and crafts, music, games and rhythms, to the education of the kindergarten and primary child. If taken for graduate credit an individual problem pertaining to the philosophy of kindergarten-primary education will be assigned. (Given in alternate years beginning in 1942.) *Second semester. Two credits.* Ruebsam.

55. CONTENT MATERIAL IN KINDERGARTEN-PRIMARY GRADES. This course is an advanced study of recent theory and practice covering objectives, methods, and desirable experiences to be afforded children in the kindergarten-primary grades in the fields of arithmetic and social science. (Given in alternate years beginning in 1941.) *Second semester. Two or three credits.* Ruebsam.

General Elementary

1. TEACHING IN THE ELEMENTARY SCHOOL. An introduction to teaching as a profession, what it requires of the teacher, what it has to offer, and what problems of classroom teaching and

management it presents. *First semester. Two credits.* Ruebsam.

3. MODERN TRENDS IN ART EDUCATION. Techniques of handling art media—finger paint, clay, easel paint, chalk, water color, etc. Planned especially for elementary school teachers who wish to use new methods in art teaching. *Either semester. Two credits.* Fee $1.50. Joslin.

21. TEACHING OF MUSIC. The aims and principles of music teaching in the kindergarten, elementary and upper grades. Group technique, song leading, interpretation, rhythmic activities. Care of the voice through various periods of development. Remedial exercises for improving pitch defects and tone quality. Music materials, rote songs, unison and descant songs, part songs, records, radio, and methods of approach for the listening period. *First semester. Two credits.* Post.

24. STATE SCHOOL ORGANIZATION AND SCHOOL LAW. The principles of good State school organization and how Nevada conforms to those principles as revealed by a careful study of the school code of the State. This course is designed to meet *all* certification requirements for school law. *First semester. Two credits.* Brown.

25B. OBSERVATION OF TEACHING. Observation and discussion of specific classroom work in the intermediate grades, as a preparation for practice teaching. *First semester. One credit.*

30. TEACHING OF THE SOCIAL STUDIES. A study of means by which child participation in the learning of the social studies may be attained. Emphasis will be placed upon such topics as directed study, the problem-discussion method, the unit and project method, and source material. The teaching of the course is based upon the study of fourteen problems. *Second semester. Two credits.* Brown.

31. THE TEACHING OF ARITHMETIC. Particular emphasis will be given to diagnostic and remedial treatment of pupil difficulties. Considerable time will be devoted to studies pertaining to content, pupil readiness to learn arithmetic and the principal objectives of the study. *First semester. Two credits.* Brown.

35. THE TEACHING OF ENGLISH. A study of the principles, materials, and methods involved in the teaching of the language subjects in the intermediate grades. *Second semester. Two credits.* Traner.

37. THE TEACHING OF GEOGRAPHY. A consideration of modern trends in the study of geography in the elementary school, the principles governing the successful teaching of the subject and

the selection and organization of subject matter with special reference to the state-adopted text. *First semester. Three credits.* Traner.

43–44. SUPERVISED TEACHING IN THE INTERMEDIATE GRADES. Opportunity for teaching, open to normal school students and to four-year students desiring to qualify for the elementary teaching certificate. Students enrolled must have had or be taking methods courses. Students teach two subjects, one hour daily. *Either semester. Five credits.* Traner.

46. NONINSTRUCTIONAL PROBLEMS OF THE CLASSROOM TEACHER. A study of those responsibilities and requirements which the elementary teacher must meet outside of class instruction. The course includes a consideration of such aspects of school management and organization as reports, records, daily program, types of school furniture, equipment and supplies, school lunches, and contacts with parents and community. *Second semester. Two credits.* Brown.

57. HISTORY OF ELEMENTARY EDUCATION. This course will consider the evolution of elementary school practice and theory from the time of the early Greeks and Romans to the present. Its principal objectives will be (1) to give the teacher in service functional knowledge of educational trends, (2) to enlarge the perspective of the teacher, and (3) to aid the teacher to evaluate her status in everyday life. (Given in alternate years beginning in 1941.) *First semester. Two credits.* Brown.

68. EDUCATION TESTS AND MEASUREMENTS. This course will consider the most serviceable tests and scales for measuring the elementary subjects. It is designed to assist teachers in judging and improving their instruction. The course will involve giving the tests, scoring, and interpreting the results. (Given in alternate years beginning in 1940.) *First semester. Two credits.* Fee $1.50. Brown.

73–74. SUPERVISED TEACHING IN SEVENTH AND EIGHTH GRADES. This course provides opportunity for teaching specific subjects in the seventh and eighth grades of the junior high school. Credits obtained in this course may be applied toward elementary and junior high school teaching certificates. Students enrolled will teach two different classes on Tuesday and on Thursday. *Prerequisite:* Method courses in the subjects to be taught. *Either semester. Four credits.* Brown.

Secondary Education

56A. GROUP LEADERSHIP FOR WOMEN. A study of the development, purposes, and organization of Girl Scout, Girl Reserve and the Camp Fire groups. Whenever possible, national leaders

from each group will contribute to the leadership training. Program planning, activities, crafts, etc., adaptable to the three programs are included. Each student will assist as a group leader. *One lecture, one laboratory. Second semester. Two credits.*

56B. SCOUTCRAFT FOR MEN. This course will deal with the theory and practice of scoutcraft as presented by Boy Scouts of America. The course includes not only a study of the nature of the boy and a review of aims and methods of education and their application to the program of scouting, but gives a complete picture of types of leisure-time programs being offered boys in America today. *Second semester. One credit.*

58. HISTORY OF SECONDARY EDUCATION. This course will involve a study of educational trends from the time of the early Greeks and Romans to the present. The principal objective of the work will be to throw light on present day secondary school problems by showing the evolution of secondary school curricula, methods of instruction, and objectives. (Given in alternate years beginning in 1941.) *Second semester. Two credits.* Brown.

60. PROBLEMS OF SECONDARY EDUCATION. A consideration of such fundamental problems of secondary education as the essential characteristics of secondary education as compared with those of elementary and higher education; the place and extent of secondary education in our school system; the purpose of education in a democracy; and the organization and content of a curriculum based on that purpose. Open to juniors only. *First semester. Two credits.* Traner.

64A. ADMINISTRATION AND ORGANIZATION OF HIGH SCHOOL ATHLETICS. A course covering high school competition in general, methods of organizing athletic associations and administration of same. *Second semester. Three periods per week. Two credits.* Martie.

64B. HISTORY, ADMINISTRATION, AND ADAPTATION OF PHYSICAL EDUCATION AND RECREATIONAL ACTIVITIES. The course studies elementary, junior high and senior high school physical education programs, after-school programs, and extra-curricular activities. There will be opportunity to direct after-school activities, either in athletic associations or on playgrounds. This course and Women's Physical Education 57 are identical. *First semester. Three credits.*

65. HIGH SCHOOL MUSIC. Conducting. Instrumental technique. Practical consideration of instrumentation, transposing instruments, and teaching material of all grades. Choral technique. Voice ranges of boys and girls, the changing voice,

remedial exercises. Materials for part singing, girls' and boys' glee clubs, and mixed chorus. High school music curricula. Technical and appreciatory objectives. Active participation in orchestra, glee club or band required and applicant must be a junior or senior with a minor in music or its equivalent. *Second semester. Two credits.* Post.

66. SUBJECT MATTER AND METHODS. A study of the most suitable subject matter for the different high school courses and of the methods of teaching specific subjects. General class discussion and special study and reports and observation.

Section A, foreign languages. *First semester. One credit.* Traner.

Section B, English. *Second semester. Two credits.* Traner.

Section C, mathematics. (Given in alternate years beginning in 1942.) *First semester. Two credits.* Wood.

Section D, science. (Given in alternate years beginning in 1941.) *First semester. Two credits.* Brown.

Section E, social subjects. *Second semester. Two credits.* Brown.

Section F. *The Teaching of Secretarial Subjects.* This course presents a study of the curriculum, methods of teaching, objectives, standards, grading, etc., in the subjects of typewriting, shorthand, and office practice. *Prerequisites:* A knowledge of the theory of shorthand and typewriting. Students will be given an 80-words-per-minute transcription test in shorthand, and a test in typewriting to determine speed and accuracy. (Given in alternate years beginning in 1941.) *First semester. Two credits.* Klaus.

Section G. *The Teaching of Bookkeeping, General Business Training, and Allied Subjects.* This course presents a study of the curriculum, methods of teaching, objectives, standards, grading, etc., in the teaching of bookkeeping, general clerical practice, consumer education, etc. (Given in alternate years beginning in 1942.) *First semester. Two credits.* Klaus.

71. GENERAL METHODS OF HIGH SCHOOL INSTRUCTION. A course dealing with the various methods of presenting subject matter and such topics as the assignments, school discipline, reviews, motor skills, testing the results of teaching, and the teacher's personality will be given detailed consideration. To be taken in the senior year. *First semester. Three credits.* Brown.

75–76. SUPERVISED TEACHING IN THE HIGH SCHOOL. Teaching in grades nine to twelve in major or minor subject of the student. Required of all candidates for the high school teachers diploma. Students enrolled must reserve ample time either in

the forenoon or afternoon to make assignments possible. *Prerequisite:* Method courses in subject to be taught. Students teach one class on Tuesday and Thursday. *Either semester. Two credits.* Brown for academic subjects; Chapman for home economics.

82. NONINSTRUCTIONAL RESPONSIBILITIES OF THE HIGH SCHOOL TEACHER. A study of those responsibilities and requirements which the high school teacher must meet outside of class instruction. The course includes a consideration of the teacher's relations to the profession, to the school authorities and to the State and community. For seniors only. *Second semester. Two credits.* Traner.

85. METHODS OF TEACHING FARM MECHANICS. A course designed for students preparing to meet the qualifications for agriculture and farm mechanics instructors in high schools. The organization and administration of a farm mechanics course, including objectives, course content, lesson planning, and teaching methods. *First semester. Two credits.* Titus.

86. PROBLEMS IN AGRICULTURAL EDUCATION. This course is a study of the most important problems that an agriculture teacher must meet: Selecting the subject matter for high school courses in agriculture and for farmer's short courses; preparing plans for teaching this subject matter; and making contact with the adult farmer. Open to juniors and seniors in the College of Agriculture to meet in part the requirements for the vocational agricultural certificate. *Second semester. Two credits.* Dowler.

87. METHODS IN TEACHING VOCATIONAL AGRICULTURE. This course involves principles and techniques in course construction for all-day, young farmer and adult farmer classes in vocational agriculture; preparation of teaching plans and job analysis; methods of conducting supervised farm training, including selection of the long-time program, aims and objectives, budgeting, preparation of job plans, keeping farm records and accounts, enterprise analysis and teachers responsibility in supervision. Open to seniors who are preparing to meet the requirements for a high school vocational teaching certificate. *First semester. Three credits.* Dowler.

88. PROBLEMS IN HOMEMAKING EDUCATION. A study of the curricula, methods of teaching, and making home contacts; use of texts, references and selection of equipment, and determination of aims and goals to be reached in public school homemaking courses. Discussion of courses of study to meet various needs. Open to juniors and seniors in the School of Home Economics to meet in part the requirements for the vocational home economics certificate. *Second semester. Two credits.* Huber.

89. METHODS IN TEACHING HOMEMAKING. Analysis of objectives, content and experiences for a comprehensive program of education for home living in secondary schools to include the following: Provision for food for the family; selection, care and construction of clothing; care and guidance of children; selection, furnishing and care of house; selection and use of home equipment; maintenance of health; home care of the sick; consumer-buying; management of all materials and human resources available to the home; maintenance of satisfactory family relationships; application of the arts and sciences to the home. *First semester. Three credits.* Huber.

90. METHODS OF HOMEMAKING EDUCATION FOR ADULTS. Designed for the homemaking teacher as a help in methods of organizing, selecting content, and promoting work in adult groups as a part of the teacher's community activities; observation and assisting with adult classes. Methods of working with adults in specially organized classes will also be considered. *Either semester. Three credits.*

93. EDUCATION FOR FAMILY AND COMMUNITY LIVING. Designed for secondary school teachers to assist them in instructing and counselling high school students on their problems of satisfactory adjustment to home, family, school, and community life. *First semester. Two credits.*

95. SUPERVISION AND INSTRUCTION IN JUNIOR HIGH SCHOOL GRADES. This course will consider the development, present status, and influence of the junior high school on educational perspectives and educational practices in the junior high school and in the corresponding grades of the traditional elementary school. The structural, social, civic, and economic-vocational foundations of the junior high school will be studied briefly. Attention will be given to the psychological foundation of the junior high school and its implications for supervision, for the instructional program, and for the guidance and socialization of pupils in upper elementary and junior high school grades. A major part of the course time will be given to the study of the instructional program of junior high school grades. (Given in alternate years beginning in 1940.) *Second semester. Two credits.* Brown.

108. SUPERVISION. Intended for supervisors of student teaching. Analysis of objectives, techniques, and experiences which promote student-teacher growth. Study of methods of teaching; establishing a philosophy of supervision; recognizing responsibilities of the teacher and the student teacher; understanding the inter-relationships of various people and departments concerned;

evaluation of student teacher and her prospective success. *Given on demand. Three credits.*

Educational Psychology

6. ELEMENTARY EDUCATIONAL PSYCHOLOGY. A consideration of the applications of psychology to educational problems. *Prerequisite:* Psychology 5. *Second semester. Three credits.* Irwin.

67. PSYCHOLOGY OF THE ELEMENTARY SCHOOL SUBJECTS. This course sets forth and interprets the scientific experiments and investigations that have been made relating to learning and teaching of the elementary branches. Emphasis is placed on the psychological problems of immediate concern to the teacher in the classroom. *Second semester. Two credits.* Puffinbarger.

69. THE EDUCATION OF RETARDED CHILDREN. Describes the characteristics and capacities of slow-learning children, their place in the school and community, and the procedures basic to planning and carrying out an adequate program of learning experience that satisfies the needs and capacities of such children at each stage of their development. *First semester. Two credits.* Puffinbarger.

70. THE EDUCATION OF SUPERIOR CHILDREN. Designed to acquaint public school teachers with the problems and methods involved in the adjustment and training of superior children, and with educational provisions for the mentally alert, but emotionally unstable, gifted child. *Second semester. Two credits.* Puffinbarger.

72. ADVANCED EDUCATIONAL PSYCHOLOGY. The nature and needs of the child, emphasizing mental and emotional development, nature of learning, conditions affecting learning, problems of transfer, problems of adjustment. *First semester. Two credits.* Puffinbarger.

Graduate Courses

101–102. INDEPENDENT STUDY FOR GRADUATE STUDENTS. The intensive study of some specific educational problem of particular interest to the student, involving an exhaustive survey of research and previous study, such original research and contribution as the problem and time permit, and a comprehensive written report of the study. Intended primarily for candidates for the Master's degree. *Time to be arranged. Two credits.* Members of the Staff.

199–200. GRADUATE THESIS. Preparation of the thesis for the Master's degree. Open only to candidates for the M. A. degree in Education. *Credits to be arranged.* Members of the Staff.

Electrical Engineering

Professors S. G. Palmer, Sandorf (Chairman of Department).

23–24. Elements of Electrical Engineering. An elementary course in electric circuits, machinery, electronics, and measurements. Includes lectures and demonstrations. Designed primarily for nonelectricals, the course will be adapted to meet needs of the students. *Prerequisite:* Sophomore standing. *Either semester. Two credits.*

31–32. Electrical Engineering Laboratory. This course offers the electrical engineering student an opportunity to undertake a project in his chosen field. The nature and scope depends upon background of student. Open to freshmen and sophomores. *One or two credits each semester.* A laboratory fee of $5 per credit may be required, depending on nature of project undertaken.

47. Rural Electrification. A course primarily for students in the College of Agriculture in the application of electricity on the farm. Lectures and demonstrations. *First semester. Two credits.*

51. Direct Current Machinery. A course for junior electrical and mechanical engineer students on the theory, characteristics, construction, and operation of direct current machines and circuits. *Prerequisites:* Physics 4, Mathematics 28. *First semester. Three credits.*

52. Alternating Current Machinery. A continuation of Electrical Engineering 51 covering a similar study of alternating current machines and circuits. *Prerequisite:* Electrical Engineering 51. *Second semester. Three credits.*

53. Electrical Engineering Laboratory. This course is normally accompanied or preceded by Electrical Engineering 51 and has same prerequisites. *First semester. Two credits.* Fee $5.

54. Electrical Engineering Laboratory. This course is normally accompanied or preceded by Electrical Engineering 52. *Second semester. Two credits.* Fee $5.

55. Introduction to Electric Circuits. The study of elementary electric and magnetic circuits and fields. Steady state and transient response to alternating current and direct current of simple circuits. *Prerequisite:* Physics 4. *First semester. Two credits.*

56. Alternating Current Circuits. A continuation of Electrical Engineering 55, including a study of series and parallel alternating current circuits, coupled circuits, and transmission

lines. Complex quantities and vector notation are employed. *Prerequisites:* Electrical Engineering 55, Mathematics 85. *Second semester. Two credits.*

57. INTRODUCTION TO ELECTRONICS. Theory and application of vacuum and gas-filled tubes and circuits. Lectures and laboratory. *Prerequisite:* Physics 4. *First semester. Three credits.* Fee $5.

58. INDUSTRIAL ELECTRONICS. An introductory course in the principles of electronics as applied to such industrial processes as rectification, welding, high frequency heating, X-rays, and control. Lectures and laboratory. *Prerequisite:* Electrical Engineering 55, Electrical Engineering 57. *Second semester. Three credits.* Fee $5.

61. ADVANCED ALTERNATING CURRENT MACHINERY. A continuation of Electrical Engineering 52. *Prerequisite: Electrical* Engineering 52. *First semester. Three credits.*

62. ELECTRICAL DESIGN. Study of the fundamental principles underlying the design of electrical equipment. Lectures and computations. *Prerequisite:* Electrical Engineering 61. *Second semester. Three credits.*

63. ADVANCED ALTERNATING CURRENT LABORATORY. A continuation of Electrical Engineering 53 and 54, normally accompanied by Electrical Engineering 61. *First semester. Three credits.* Fee $5.

64. ADVANCED ALTERNATING CURRENT LABORATORY. A continuation of Electrical Engineering 63. *Second semester. Three credits.* Fee $5.

65. ADVANCED POWER CIRCUITS. The following will be studied: Symetrical components and their application to the treatment of faults and unbalances in polyphase circuits and machines; power transmission lines and networks including an introduction to power system stability; principles of power measurement. *Prerequisites:* Senior standing, Electrical Engineering 56. *First semester. Two credits.*

66. GENERATION AND DISTRIBUTION OF POWER. Study of the economic and technical factors underlying the location, design, construction, operation, and protection of generating, transmission, and distribution systems. *Prerequisite:* Senior standing. *Second semester. Two credits.*

67. ELECTRICAL ILLUMINATION. A study of the principles and practice of electrical illumination. *Prerequisite:* College physics. *First semester. Two credits.*

68. ELECTRICAL POWER EQUIPMENT. A study of generating equipment, switchboard, switching equipment, transformers, relays, and other protective devices as applied to power plants and substations. *Prerequisite:* Junior standing. *Second semester. Two credits.*

75. ELECTRICITY IN MINING. The study of the theory and application of electrical equipment commonly used in mining and associated fields. Lectures and laboratory. *Prerequisite:* Senior standing. *Second semester. Three credits.* Fee $5.

81. ADVANCED ELECTRONICS. The theory and application of vacuum tubes and circuits as applifiers, oscillators, modulators, and detectors. Lectures and laboratory. *Prerequisites:* Senior standing and Electrical Engineering 57 or equivalent. *First semester. Five credits.* Fee $5.

82. HIGH FREQUENCIES AND MICROWAVES. Study of the generation, transmission, detection, and measurement of high frequencies and microwaves. Lecture and laboratory. *Prerequisite:* Electrical Engineering 81. *Second semester. Three credits.* Fee $5.

83. TELEPHONE COMMUNICATION. The principles of voice communication including a study of microphones, loud speakers, telephone and telegraph circuits, and systems. Lectures and laboratory. *Prequisite:* Electrical Engineering 56. *First semester. Three credits.* Fee $5.

84. RADIO COMMUNICATION. The principles of radio communication including the study of radio receivers, transmitters, antennas, propagation, television, and radar. Lectures and laboratory. *Prerequisite:* Electrical Engineering 81. *Second semester. Four credits.* Fee $5.

87–88. SEMINAR. Discussion of technical articles appearing in current periodicals. *Prerequisite:* Junior standing. *One credit.*

91, 92, 93, 94. ELECTRICAL ENGINEERING PROJECT. The nature of the project depends upon the student's interest and ability. It must be in the field of electrical engineering. The student is expected to take the initiative in consulting periodicals and the instructional staff. *Prerequisite:* Junior standing. *One or two credits.* A fee of $5 per credit may be required.

95–96. THESIS. The subject and its scope must have the approval of the instructor. Open to seniors who have shown the ability to complete project selected. *One to three credits.* A fee of $5 per credit may be required.

English Language and Literature

Professors Laird, Griffin; Associate Professors Eldridge, Hume; Assistant Professors Gorrell (Chairman of Department), Miller; Mrs. Bibb, Mrs. Brown, Mr. Butterworth (on leave), Mr. Edwards, Mrs. Gorrell, Mrs. Miller, Mr. Parker, Mr. Semenza, Miss Shea, Mrs. Spencer, Miss Swan, Mrs. Urrutia, Mr. Vinocour, Mrs. Wilkie.

Literature, Language, and Composition

Requirements for majors and minors in English: Students will normally be expected to elect courses in accordance with at least one of four approved options; many students are able to fill the requirements for more than one option. For a major, the requirements in these options are as follows:

1. Liberal Arts—English 1–2 (6 credits), English 44 and 45 (6 credits), English 75, English 93, English 95 (9 credits), and at least two courses selected from the following: English 70, English 79, English 80, English 87, English 89, English 91 (6 credits). If so many as four courses are elected from this last group, the requirement of English 95 may be waived.

2. High School Teaching—English 1–2 (6 credits), English 44 and 45 (6 credits), English 70, English 75, English 93, and English 95 (12 credits), and courses in speech (3 credits). Students expecting to teach in high school should prepare themselves, through formal courses or through extra-curricular activities, to direct work in forensics, dramatics, and journalism. Unless they have adequate journalistic background to supervise a school paper, they will be expected to elect Journalism 87. Students who have difficulty with grammar should elect English 67.

3. Speech—English 1–2 (6 credits), English 11–12 (4 credits), English 70 and English 75 (6 credits), and 11 credits in speech selected with the consent of the department from courses numbered 50 or above.

4. Literary Writing. English 1–2 (6 credits), English 44–45 (6 credits), English 75, 77, 91, 93 (12 credits), and English 59–60 (2–8 credits). The students should note that admission to this option presumes admission to English 59–60, with the prerequisites for that course.

For a minor in English the requirements are as follows: for options 1 and 2, English 1–2 (6 credits), English 44 and 45 (6 credits), and two courses numbered above 50 and designated as acceptable for a major (6 credits); for option 3, English 1–2, English 11–12 (4 credits), and 8 credits chosen from courses numbered above 50 and approved as appropriate for the individual's interest;

Note—When circumstances warrant, the student may be allowed to substitute for English 11–12 other courses in speech of equal credit numbered to 50. When the first semester of a course in literature numbered above 50 is required for the major or minor, the second semester may in certain cases be accepted in lieu of the first.

A. Elementary Composition. A noncredit course in the mechanics of composition required of those who are unable, in the placement examinations given all beginning students, to

demonstrate the proficiency in expression normally expected of high school graduates. *One semester. No credit.* Staff.

1–2. COMPOSITION AND RHETORIC. The study of English as a means of self-expression, with special attention to the writing of exposition. *Both semesters. Three credits each semester.* Staff.

NOTE—At the recommendation of the department, students may be allowed to substitute for either English 1 or 2, or both, certain prescribed courses within the department numbered to 50, provided that at least six units of work in English are completed. In no case may a course be used to meet both first-year and second-year requirements.

Any student who receives a failure in a course which he has substituted for English 2 will be required to register for English 2 the following semester.

A student who is habitually delinquent in the use of English in connection with any course in the University curriculum may be remanded to the Department of English to take without credit such further work in composition as the head of the department thinks advisable.

3–4. ADVANCED COMPOSITION. Extensive practice in various types of writing based upon the reading and discussion of contemporary prose. *Both semesters. Two credits each semester.* Staff.

23–24. THE DRAMA OF TODAY. The reading of a variety of modern plays as an introduction to drama. *Both semesters. Two credits each semester.* Staff.

30–31. THE MODERN NOVEL. The reading of significant modern novels for recreation and for the appreciation of the novel as an integrated approach to life. *Both semesters. Three credits each semester.* Staff.

33–34. GREAT BOOKS. Masterpieces from many ages and from all the great literatures read in English for recreation and for general culture. *Both semesters. Two credits each semester.* Staff.

40–40A. SHAKESPEARE FOR PLEASURE. Shakespeare's principal plays read for their social interest and their literary excellence. Not intended for majors in English. *Both semesters. Two credits each semester.* Staff.

41–42. APPRECIATION OF LITERATURE. The reading of a wide selection of recent and contemporary literature of various types, intended to cultivate sound literary taste. *Both semesters. Two credits each semester.* Staff.

44. INTRODUCTION TO LANGUAGE. A study of the nature of language with a sketch of the growth of the American language. *Either semester. Three credits.* Laird.

45. INTRODUCTION TO LITERARY STUDY. A critical examination

of creative writing and a survey of basic methods of literary study. *Either semester. Three credits.* Gorrell and Hume.

NOTE—English 44 and 45 are required of majors and minors in the department, except those electing the speech option. The courses need not be taken in their numbered sequence.

51. CURRENT ENGLISH. A study of modern American speech with a view to elucidating the nature of language and the principles of its change and growth. *First semester. Two credits.* Laird.

52. HISTORY OF THE LANGUAGE. A survey of the origins of the English language and of its growth to modern times. *Second semester. Two credits.* Laird

59–60. LITERARY WRITING. Advanced training in creative writing. The course is conducted as a writer's workshop, with the entire staff available through conferences, roundtables, and special lectures. Required for the major in creative writing. *Prerequisite:* the submission of a sample of superior creative work. May be repeated once for credit (a maximum of eight credits). *Both semesters. Two credits each semester.* Staff.

67. DESCRIPTIVE GRAMMAR. An objective description of modern English usage, with a sketch of grammar as it is conventionally taught. Designed primarily for prospective teachers. *One semester. Three credits.* Laird.

68–69. THE ENGLISH NOVEL. A study of the development of the novel in England in the nineteenth and twentieth centuries. *Both semesters. Three credits each semester.* Hume and Gorrell.

70–71. AMERICAN LITERATURE. The development of American literature, exclusive of the drama, from the beginnings to 1900. *Both semesters. Three credits each semester.* Eldridge and Hume.

71A. RECENT AMERICAN LITERATURE. American literature, exclusive of the drama, since 1900. *Second semester. Three credits.* Eldridge and Hume.

72–73. MODERN DRAMA. Representative English and American dramatists, since 1890. *Both semesters. Two credits each semester.* Miller.

74. AMERICAN NOVEL. A study of the American novel, with stress on contemporary writers. *Second semester. Three credits.* Eldridge and Hume.

75–76. SHAKESPEARE. The reading of Shakespeare's plays and a closer interpretation of his more characteristic dramas. *Both semesters. Three credits each semester.* Gorrell.

77. THE BIBLE AS LITERATURE. The study of representative literary types found in the Old Testament. *One semester. Three credits.* Eldridge and Edwards.

78. MILTON. Minor poems, dramas, and Paradise Lost. *One semester. Three credits.* Hume and Gorrell.

79–79A. THE ROMANTIC MOVEMENT. The rise of romanticism in the eighteenth century and its flowering in the nineteenth, with especial emphasis on the English Romantics. *Both semesters. Three credits each semester.* Laird.

80–80A. THE VICTORIAN AGE. The social and artistic movements of the nineteenth century as exemplified in English poetry and prose. *Both semesters. Three credits each semester.* Laird.

85. ENGLISH DRAMA. A comprehensive survey of English drama from its beginnings to the end of the nineteenth century. *One semester. Three credits.* Gorrell.

87–88. THE AGE OF REASON. Studies in the leading writers from Dryden to Burke, with attention to influences from abroad which began with the return of the English court in 1660. *Both semesters. Three credits each semester.* Hume.

89–90. THE RENAISSANCE. A broad view of English literature from the end of the Middle Ages to the Restoration, with special attention to the impact of influences from abroad. *Both semesters. Three credits each semester.* Gorrell.

91–92. MODERN LITERATURE. A serious study of modern writing with the emphasis upon contemporary American literature, but with attention to significant literary movements throughout the world. *Both semesters. Three credits each semester.* Eldridge and Hume.

93–94. THE HEROIC AND MEDIEVAL AGES. A broad study of English literature from its sources in the Celtic, Germanic, and Latin traditions, with developments to 1500. Special attention will be given to Chaucer. *Both semesters. Three credits each semester.* Laird.

95. SURVEY OF ENGLISH LITERATURE. A broad view of English and American literature and their social and international relationships. Intended to encourage the student to integrate his four years of study, the course is required of most seniors majoring in the department. (See requirements for majors in English.) *One semester. Three credits.* Laird and Staff.

97–98, 99–100. INDEPENDENT STUDY. Open to juniors and seniors majoring or minoring in English upon consultation with the head of the department. Hours to be arranged with individual students. *One credit a semester.* Staff.

101–102. SEMINAR. Open only to graduate students. *Both semesters.* Hours to be arranged with individual students. *One to three credits each semester.* Staff.

200. THESIS COURSE. Open only to candidates for a master's degree. *Six credits.* Staff.

Speech

11–12. PUBLIC SPEAKING. The principles of effective public speaking studied and practiced through organized student discussions of contemporary controversial problems. Speech form and speech content are equally emphasized. *Both semesters. Two credits each semester.* Staff.

16–17. ARGUMENTATION AND DEBATE. The study of the principles of argumentation with the preparation of briefs, the participation in class debates, and the presentation of argumentative talks. The study of thinking, and the expression of thoughtful opinions on current topics are stressed. *Both semesters. Two credits each semester.* This course may be repeated for credit as 16A and 17A. Vinocour.

21–22. EXPRESSION. The oral interpretation of the forms of literature with special attention directed to diction, gesture, the voice, and platform poise. The course is recommended to beginning students in public speaking, teaching and dramatic work. *Both semesters. Two credits each semester.* Miller.

53–54. ADVANCED INTERPRETATION. The course aims to develop skill in analysis and an understanding of the various types of literature. A study of the finer techniques of oral expression to develop the imagination, the emotional power, reading skill, and platform deportment in all its phases. *Prerequisite:* English 21–22, or the consent of the instructor. *Both semesters. Two credits each semester.* Miller.

55–56. PRINCIPLES AND TECHNIQUES OF PUBLIC DISCUSSION. Study of the principles and techniques involved in the various forms of group discussion: symposium, panel, lecture forum, forensic progression, etc. Duties and problems of the discussion leader. Classroom practice in solving public problems. The course stresses scholarly inquiry on a cooperative basis. *Prerequisite:* English 11–12 or 16–17. *Both semesters. Two credits each semester.* Vinocour.

57–58. ADVANCED ARGUMENTATION AND PERSUASION. Study of the intellectual and emotional behavior of the audience. Analysis of complex public problems and the briefing of cases for the advocate. *Prerequisite:* English 16–17. The course may be repeated for credit. Maximum of eight credits may be earned. *Both semesters. Two credits each semester.* Vinocour.

61–62. ADVANCED SPEECH COMPOSITION. Study of effective speech composition, based upon application of rhetorical and psychological principles. First semester preparation of extended oration on current social or political problems. Second semester study and preparation of speeches for special occasions: Eulogy, introduction, after-dinner commemoration, etc. Open to limited number of students with consent of instructor. *Both semesters. Two credits each semester.* Staff.

63–64. HISTORY OF ORATORY. Examination of background, methods, and ideals of modern oratory. Particular attention to the outstanding figures of each period, with study of historical settings and significance of each orator. British oratory is studied the first semester and American oratory the second. *Prerequisite:* English 11–12 or 16–17. *Both semesters. Two credits each semester.* Vinocour.

65–66. PRE-LEGAL ARGUMENTATION. Study and practice, especially for pre-legal students, of the forensic aspects of law. The course will include participation in mock trials and the auditing of exemplary cases and suits in local courtrooms. *Two credits. Each semester.* Vinocour.

81–82. PLAY PRODUCTION. The reading, study and production of representative Shakespearean and modern plays, with lectures, readings, and reports. Practice work is offered in all the aspects of play production: management, lighting, scenery, make-up, directing, acting, etc. The course aims to aid the prospective high school teacher. *Prerequisite:* Junior standing. *Both semesters. Three credits each semester.* This course may be repeated for credit as 81A, 81B, etc. Miller.

83. PARLIAMENTARY LAW AND PRACTICE. Study and practice of the parliamentary rules and procedure governing deliberative assemblies. Organization of model parliamentary groups, with rotating chairmanship and routine transaction of typical business of such groups. Practice in drawing up model constitutions. *Two credits.* Vinocour.

84. MODERN DEBATE PRACTICE AND PROBLEMS. Study and discussion of the various types of modern debates, with particular attention to the problems of directors and coaches. Bibliographies and collateral readings in textbooks and speech journals. Conduct of debates and methods of judging. *Two credits.* Vinocour.

FARM MECHANICS

(See Agronomy)

Foreign Languages

Professors Chappelle (Chairman of Department), Murgotten; Associate Professor Gottardi; Assistant Professors Kline (on leave), Melz; Miss Ancho, Mr. Dandini, Mr. Forsyth, Mr. Greco.

Requirements for a minor in French, German, Italian, Latin, and Spanish: With no admission units, courses 1–2 (10 credits), 3–4 (6 credits)*, and 2 additional credits in courses numbered 50 or above; with 2 admission units, courses 3–4 (6 credits), and 6 additional credits in courses numbered 50 or above; with 4 admission units, 6 credits in courses numbered 50 or above.

Requirements for a major in French, German, Italian, Latin, and Spanish: With no admission units, courses 1–2 (10 credits), 3–4 (6 credits)*, and 10 additional credits in courses numbered 50 or above; with 2 admission units, courses 3–4 (6 credits), and 14 additional credits in courses numbered 50 or above; with 4 admission credits, 16 credits in courses numbered 50 or above.

Students intending later to teach foreign languages are urged not to restrict their courses to the minimum requirements for a major or a minor in the particular subjects. All such candidates are to confer with the head of the department.

Courses numbered above 50 and announced as offered in any year may not be given in that year unless there are at least seven candidates for the class. Some courses numbered above 50 are given only in alternate years. Consult the printed schedule of classes for the definite offerings any given semester.

In certain instances and by special permission of the head of the department, a given course numbered above 50 may be repeated for credit, provided that the entire content of the course differs from the one given previously under the same number. In such cases the course will be recorded with the catalogue number *plus* A (e. g., French 59–A).

For all foreign-languages courses numbered "4" the prerequisite is three years of high school work or courses 1, 2 and 3 in the same language.

Foreign Languages

200. Foreign Language Thesis Course. Open only to candidates for the master's degree. *Six credits.* Chappelle.

French

1. First Year French. Drill in the essentials of grammar. Elementary composition and conversation. *First semester. Five credits.*

2. First Year French (Continued). Grammar, composition and conversation. Translation of simple prose texts. *Prerequisite:* French 1 or one year of high school French. *Second semester. Five credits.*

3–4. Second Year French. Readings from modern French

*German 9–10 may be offered in lieu of German 3–4.

prose writers. A review of grammar. Conversation and composition. *Prerequisite:* French 1–2 or two years of high school French. *Both semesters. Three credits each semester.* Chappelle and Gottardi.

51–52. THE FRENCH NOVEL. Rapid reading of masterpieces of French fiction: Balzac, Sand, Mérimée, Zola, Daudet, etc. *Prerequisite:* French 3–4. *Both semesters. Two credits each semester.* Chappelle.

53–54. FRENCH POETRY. A study of the French lyric poets from Villon to contemporary writers. *Prerequisite:* French 3–4. *Both semesters. Two credits each semester.* Murgotten.

55–56. INTERMEDIATE FRENCH COMPOSITION AND CONVERSATION. This course should be taken simultaneously with the first year junior-senior reading courses in French. *Prerequisite:* French 3–4. *Both semesters. Two credits each semester.*

57–58. GENERAL SURVEY OF FRENCH LITERATURE. The history of French literature with detailed study of special periods. Assigned outside readings and reports on works read. *Prerequisite:* French 3–4. *Both semesters. Two credits each semester.* Chappelle.

59–60. SCIENTIFIC FRENCH. Readings from standard French works on science and from recent numbers of French scientific magazines. This course is particularly recommended to premedical students and to those who intend to specialize in any one of the scientific fields. *Prerequisite:* French 3–4. *Both semesters. Two credits each semester.* Chappelle.

69–70. FRENCH CLASSIC DRAMA. The development of the drama in France with special study of the words of Corneille, Racine, and Moliére. *Prerequisite:* French 3–4. *Both semesters. Two credits each semester.* Murgotten.

71. CONTEMPORARY FRENCH DRAMA. A study of French plays of the twentieth century. *Prerequisite:* French 3–4. *First semester. Two credits.* Murgotten.

72. NINETEENTH CENTURY FRENCH DRAMA. A study of the drama of the nineteenth century with special reference to the romantic school and the works of Victor Hugo. *Prerequisite:* French 3–4. *Second semester. Two credits.* Murgotten.

73–74. ADVANCED FRENCH COMPOSITION AND CONVERSATION. Includes a study of French epistolary style and commercial correspondence. This course should be taken simultaneously with the second year of junior-senior reading courses in French. *Prerequisite:* French 3–4. *Both semesters. Two credits each semester.*

81–82. The Eighteenth Century in French Literature. A study of the works of Montesquieu, Voltaire, Rousseau, etc. *Prerequisite:* French 3–4. *Both semesters. Two credits each semester.* Chappelle.

89–90. French Phonetics. A study of pronunciation on the basis of practical phonetics. This course is especially arranged for prospective teachers of French. *Prerequisite:* French 3–4. *Both semesters. Two credits each semester.* Gottardi.

German

1. First Year German. A systematic study of grammar, elementary composition and conversation. *First semester. Five credits.* Melz.

2. First Year German (Continued). Grammar and composition. Reading of easy prose and poetry. *Prerequisite:* German 1, or one year of high school German. *Second semester. Five credits.* Melz.

3–4. Intermediate German. Grammar review. Reading of German short stories, with exercises in conversation and composition. *Prerequisite:* German 1–2, or two years of high school German. *Both semesters. Three credits each semester.* Chappelle.

9–10. Intermediate Prescientific German. Grammar review and reading of magazine articles and other texts dealing with the fields of science in which the class is most interested. *Prerequisite:* German 1–2 or two years of high school German. *Both semesters. Three credits each semester.* Chappelle.

51–52. The German "Novelle." The development of the "Novelle" from the Romantic period to modern times: Hauff, Tieck, Hoffmann, Ludwig, Storm, Keller, Meyer, Mann, etc. Rapid reading and discussion. *Prerequisite:* German 3–4. *Both semesters. Two credits each semester.* Melz.

55–56. Intermediate German Composition and Conversation. This course should be taken with the first year of Junior-Senior reading courses in German. *Prerequisite:* German 3–4. *Both semester. Two credits each semester.* Chappelle.

57–58. General Survey of German Literature. The history of German literature with detailed study of special periods. Assigned readings and reports on the works read. *Prerequisite:* German 3–4. *Both semesters. Two credits each semester.* Chappelle.

59–60. Scientific German. Readings from German scientific

works, with special emphasis on chemistry and physics. This course is particularly recommended to premedical students and to those who intend to specialize in any one of the scientific fields. *Prerequisite:* German 3–4 or 9–10. *Both semesters. Two credits each semester.* Chappelle.

69–70. GERMAN CLASSICS. Reading and technical study of representative works of Lessing, Schiller, and Goethe. *Prerequisite:* German 3–4. *Both semesters. Two credits each semester.* Chappelle.

71–72. NINETEENTH CENTURY GERMAN DRAMA. A study of the German drama from Romanticism to Naturalism: Kleist, Grillparzer, Hebbel, Hauptmann, Schnitzler, etc. *Prerequisite:* German 3–4 or the equivalent. *Both semesters. Two credits each semester.* Melz.

79–80. ADVANCED COMPOSITION. A study of German epistolary style, business correspondence, free composition. This course should be taken simultaneously with the junior-senior reading courses. *Prerequisite:* German 3–4 or 9–10. *Both semesters. Two credits each semester.* Chappelle.

Italian

1. FIRST-YEAR ITALIAN. Elementary grammar, composition, and conversation. Reading of modern Italian prose. *First semester. Five credits.* Gottardi.

2. FIRST-YEAR ITALIAN (Continued). Grammar, composition, and conversation. Translation of modern Italian prose and poetry. *Prerequisite:* Italian 1 or one year of high school Italian. *Second semester. Five credits.* Gottardi.

3–4. INTERMEDIATE ITALIAN. Grammar review. Reading of prose and poetry. Exercises in conversation and composition. *Prerequisite:* Italian 1–2, or two years of high-school Italian. *Both semesters. Three credits each semester.* Gottardi.

51–52. THE ITALIAN NOVEL. Rapid reading of masterpieces of modern Italian fiction: Manzoni, Fogazzaro, Verga, etc. *Prerequisite:* Italian 3–4. *Both semesters. Two credits each semester.* Gottardi.

53–54. ITALIAN LITERATURE OF THE EIGHTEENTH AND NINETEENTH CENTURIES. Reading of important works of prose and poetry of the period, with a study of literary movements. *Prerequsite:* Italian 3–4. *Both semesters. Two credits each semester.*

55–56. INTERMEDIATE COMPOSITION. *Prerequisite:* Italian 3–4. *Both semesters. Two credits each semester.* Gottardi.

Latin

1. First-Year Latin. Drill in the essentials of Latin grammar. Word study and composition. Roman life and customs. *First semester. Five credits.*

2. First-Year Latin (Continued). Translation of easy Latin prose. Composition. Roman antiquities. *Prerequisite:* Latin 1 or one year of high school Latin. *Second semester. Five credits.*

3. Cicero. Orations. Study of Roman law and government. *Prerequisite:* Latin 2 or two years of high school Latin. *First semester. Three credits.*

4. Vergil. First six books of the Æneid. Study of classic myths. *Prerequisite:* Latin 3 or three years of high school Latin. *Second semester. Three credits.*

51–52. Advanced Latin. Selected readings of Latin prose. History of Latin literature. Composition. *Prerequisite:* Latin 4 or four years of high school Latin. *Both semesters. Two credits each semester.*

53–54. Latin Lyric Poetry. Horace and Catullus. *Prerequisite:* Latin 4 or four years of high school Latin. *Both semesters. Two credits each semester.*

Portuguese

61–62. Portuguese. An intensive rapid reading course in Portuguese based on the language as spoken in Brazil. Grammar, composition, and conversation. Offered only as a free elective and may not be counted towards a major or a minor or towards meeting the language requirement. *Prerequisite:* Course 3–4 in any romance language or Latin or the equivalent. *Both semesters. Three credits each semester.* Chappelle.

71–72. Portuguese–American Literature. This course is based on a study of literary works by Brazilian writers. Discussions of the general cultural, social, and economic phases of Brazilian life are included. *Prerequisite:* Portuguese 61–62 or the equivalent. *Both semesters. Two credits each semester.* Chappelle.

Spanish

1. First–Year Spanish. Drill in the essentials of grammar. Elementary composition and conversation. *First semester. Five credits.*

2. First–Year Spanish (Continued). Grammar, composition and conversation. Translation of simple prose and poetry. *Prerequisite:* Spanish 1 or one year of high school Spanish. *Second semester. Five credits.*

3–4. SECOND–YEAR SPANISH. Readings from modern Spanish writers. A review of grammar. Conversation and composition. *Prerequisite:* Spanish 1–2 or two years of high school Spanish. *Both Semesters. Three credits each semester.* Murgotten.

51–52. THE MODERN SPANISH NOVEL. Rapid reading of masterpieces of Spanish fiction: Galdós; Valdés; Ibáñez; etc. *Prerequisite:* Spanish 3–4. *Both semesters. Two credits each semester.*

53. COMMERCIAL AND JOURNALISTIC SPANISH. Readings dealing primarily with Spanish-American social and economic conditions. *Prerequisite:* Spanish 3–4. *First semester. Two credits.*

55–56. INTERMEDIATE SPANISH COMPOSITION AND CONVERSATION. This course should be taken with the first year of junior-senior reading courses in Spanish. *Prerequisite:* Spanish 3–4. *Both semesters. Two credits each semester.*

57–58. GENERAL SURVEY OF SPANISH LITERATURE. The history of Spanish literature with detailed study of special periods. Assigned outside readings and reports on works read. *Prerequisite:* Spanish 3–4. *Both semesters. Two credits each semester.* Gottardi.

67–68. EARLY SPANISH NOVEL. Reading of Spanish prose of the sixteenth, seventeenth and eighteenth centuries. A study of novelistic movements. Montalvo, Montemayor, Cervantes, Quevedo. Collateral reading. *Prerequisite:* Four credits of junior-senior work. *Both semesters. Two credits each semester.*

69–70. MODERN SPANISH DRAMA. A study of Spanish dramatic literature from the golden age to the twentieth century. *Prerequisite:* Spanish 3–4. *Both semesters. Two credits each semester.*

71–72. SPANISH–AMERICAN LITERATURE. Prose and poetry. *Prerequisite:* Spanish 3–4. *Both semesters. Two credits each semester.* Melz.

79–80. ADVANCED SPANISH PROSE COMPOSITION AND CONVERSATION. This course should be taken simultaneously with the second year of junior-senior reading courses in Spanish. *Prerequisite:* Spanish 3–4. *Both semesters. Two credits each semester.*

81–82. SPANISH CLASSIC DRAMA. Literature of the sixteenth and seventeenth centuries—Lope de Vega; Tirso de Molina, etc. *Prerequisite:* Four credits junior-senior work. *Both semesters. Two credits each semester.*

GEOGRAPHY

Mr. THOMPSON.

3. PHYSICAL GEOGRAPHY. A survey of clamatic elements and forms and earth resources and the aspects of their influence on man's activities. *First semester. Three credits.*

15. SURVEY OF WORLD GEOGRAPHY. Natural environment and human use regions of the world and their interrelationships. *First semester. Three credits.*

9. CLIMATOLOGY. *Second semester. Three credits.*

35. GEOGRAPHY OF NORTH AMERICA. *Second semester. Three credits.*

GEOLOGY

Professor GIANELLA (Chairman of Department); Associate Professor WHEELER; Assistant Professor CREE.

Requirements for a minor in geology: Geology 1, 2, 11 and 12 (10 credits), and 8 additional credits in the department, at least 6 of which must be in courses numbered 50 or above.

Requirements for a major in geology: Geology 1, 2, 11, 12 and 14 (12 credits), and 15 additional credits in the department, at least 12 of which must be in courses numbered 50 or above.

1. PHYSICAL GEOLOGY. An elementary study of the forces on or within the earth, dealing chiefly with the dynamic and structural aspects of the subject. The interpretation of topographic maps. *Either semester. Three credits.* Mackay School of Mines. Staff.

2. HISTORICAL GEOLOGY. An outline of the origin and history of the earth, including the diastrophic changes, stratigraphic relationships, and the description of the physical geography and life of the successive geological periods, with especial reference to the North American continent. *Prerequisite:* Geology 1 or 10. *Either semester. Three credits.* Mackay School of Mines. Wheeler and Cree.

10. ENGINEERING GEOLOGY. (Engineering and Agricultural students only.) A study of the forces active on and within the earth, and their results, with especial emphasis on their effects on engineering problems. The recognition of common rocks and minerals and the interpretation of topographic maps. *Second semester. Three credits.* Mackay School of Mines. Wheeler and Cree.

11. DETERMINATIVE MINERALOGY. The first few weeks are devoted to elementary crystallography followed by the determination of the more common minerals, chiefly by means of their

physical properties. *Prerequisite:* Chemistry 7 and 8, or the equivalent. *First semester. Two credits.* Fee $2. Mackay School of Mines. Gianella.

12. BLOWPIPE ANALYSIS. The determination of minerals by blowpipe analysis. *Prerequisite:* Chemistry 7 and 8, or the equivalent, and Geology 11. *Second semester. Two credits.* Fee $3. Mackay School of Mines. Cree.

14. DESCRIPTIVE MINERALOGY. Lectures and recitations on the classification, characteristic properties, occurrence, association, genesis, and uses of the more important minerals, illustrated by typical specimens. *Prerequisite:* Geology 11. *Second semester. Two credits.* Mackay School of Mines. Gianella.

51. PETROLOGY. Laboratory study of rocks and rock-forming minerals in hand specimens. Lectures on the character, origin, and classification of rocks. *Prerequisite:* Physics 1A–2 or 3–4, Geology 1 or 10, 2, 11 and 12. *First semester. Two credits.* Fee $2. Mackay School of Mines. Cree.

52. PETROGRAPHY. Lectures on the genesis of rocks, and the study of thin sections of rock-forming minerals and rocks under the petrographic microscope. *Prerequisite:* Geology 11 and 12 and 51. *Second semester. Three credits.* Fee $2. Mackay School of Mines. Gianella.

53. STRATIGRAPHIC PALEONTOLOGY. A laboratory study of invertebrate fossils, and the application of paleontologic methods to stratigraphy. *Prerequisite:* Geology 1 or 10, and 2(Zoology 2 recommended). *First semester. Three credits.* Mackay School of Mines. Wheeler.

54. GEOLOGICAL REPORTS. Study and practice in the preparation, illustration, and oral presentation of geologic reports. *Prerequisite:* Geology 51. *Second semester. Two credits.* Staff.

55–56. ADVANCED MINERALOGY. Advanced work in either blowpipe analysis, crystallography, or the determination of minerals with the petrographic microscope. *Prerequisites:* Geology 11, 12, and 14. *Either semester. One or two credits.* Fee $2. Mackay School of Mines. Gianella and Wheeler.

58. GEOMORPHOLOGY. Development and interpretation of of the relief features of the earth. *Prerequisite:* Geology 82. *Second semester. Three credits.* Staff.

60. ECONOMIC GEOLOGY OF THE NONMETALS. Geology of ground water and petroleum, followed by a study of the occurrence, distribution, origin, and economic value of other nonmetals. *Prerequisite:* Geology 1 or 10, 2, 11, 12, and 14. *Second semester. Three credits.* Mackay School of Mines. Wheeler.

61. ECONOMIC GEOLOGY OF THE METALS. The geology of ore deposits, including distribution, origin, mode of occurrence, and alteration; with special reference to the more important mining districts of North America. *Prerequisite:* Geology 11, 12, 14, and 51 (geology 52 recommended). *First semester. Three credits.* Mackay School of Mines. Gianella.

70. FIELD GEOLOGY. Instruction in field methods and investigation of geologic features of several areas in the Reno region. Transportation is provided by the S. Frank Hunt Foundation. *Prerequisite:* Geology 11, 12, 14, and 51. *Second semester. One credit.* Mackay School of Mines. Gianella.

71. SUMMER FIELD GEOLOGY. Eight weeks' study of Nevada areas where both surface and subsurface geology may be investigated and mapped. Reports, field notes, and geologic maps will be required. Living and traveling expenses for instructors and students are paid by funds from the S. Frank Hunt Foundation. *Prerequisite:* Geology 51 and 60 or 61 (and preferably geology 52 and 82). *Four credits.* Staff.

NOTE—Geology 71 may be substituted for civil engineering 58 (summer surveying).

79, 80, 81. GEOLOGY PROJECT. Original investigation of geologic problems. *Prerequisite:* Geology 51, 52, and 60 or equivalent training. *Either semester. One or two credits each semester.* Mackay School of Mines. Gianella, Wheeler, and Cree.

82. STRUCTURAL GEOLOGY. A study of the deformation of the earth's crust. *Prerequisite:* Geology 14 and 51. *Second semester. Three credits.* Mackay School of Mines. Gianella.

83. GEOPHYSICAL METHODS. Principles of geophysics and their geologic application. *Prerequisite:* Geology 51 and 82, Mathematics 15 and 16, Physics 3 and 4. *First semester. Three credits.* Staff.

84. PETROLEUM GEOLOGY. Principles of the occurrence and accumulation of petroleum. *Prerequisites:* Geology 51 and 82. *Second semester. Three credits.* Staff.

179–180. ADVANCED GEOLOGIC INVESTIGATION. Credits and fee to be arranged according to work undertaken. Mackay School of Mines. Gianella and Wheeler.

199–200. THESIS. Six to ten credits total. Fee to be arranged according to work undertaken. Gianella and Wheeler.

GERMAN

(See Foreign Languages.)

History and Political Science

Professors Hicks (Chairman of Department), Mazour; Associate Professors Smith, Hutcheson, Auchampaugh.

Requirements for a minor in History: History 1–2 (6 credits), History 5–6 (6 credits), and 6 additional credits in History.

Requirements for a major in History: History 1–2 (6 credits), History 5–6 (6 credits), and fifteen additional credits in History.

Requirements for a minor in Political Science: Political Science 3–4 (6 credits), Political Science 5–6 (4 credits), and 8 additional credits in Political Science.

Requirements for a major in Political Science: Political Science 3–4 (6 credits), Political Science 5–6 (4 credits), and 17 additional credits in Political Science.

History 87 and 89A–90A may be used to satisfy part of these requirements for major and minor.

Political Science 3–4, taken together, satisfy the legal requirements for Political Science 79–80; but students who do not take both 3 and 4 must take both 79 and 80, in order to graduate. Students desiring a better comprehension of the Constitutions of the United States and Nevada than can be obtained in 79 and 80, and students desirous of conforming to legal requirements in certain other States, should take 3 and 4.

Any course in History or Political Science is open to students with majors and minors in other departments, subject only to the consent of the instructor and to the regulation that courses numbered above 50 are for Juniors and Seniors.

Political Science 79 and 80 may not be used to satisfy requirements for a major or minor in Political Science.

History

1–2. United States. Colonial times to the present: Social, political, and diplomatic. *Both semesters. Three credits each semester.* Stewart Hall. Hicks, Smith, Hutcheson, Auchampaugh.

5–6. European Civilization. The development of civilization in Europe from the Roman Empire to the present. Designed to furnish perspective for the understanding of the present-day world. *Both semesters. Three credits each semester.* Stewart Hall. Mazour.

56. The Westward Movement in the United States. The westward movement of peoples from the Atlantic Coast, and the influence of this movement upon United States history. *Second semester. Two credits.* Stewart Hall. Auchampaugh.

58. Western North America. The Far West: The Rocky Mountain and West Coast States; activities of the Spanish, Russians, British, and Americans on the Pacific Coast. *Second semester. Three credits.* Stewart Hall. Hutcheson.

59–60. Latin America. History of Spanish and Portuguese America from the age of discovery to the present: domestic and

international. *Both semesters. Two credits each semester.* Stewart Hall. Hicks.

63–64. ENGLAND AND THE BRITISH EMPIRE. History of England and its empire: social, economic, and political. Background of English literature and law. Second semester begins at Elizabethan age. *Both semesters. Two credits each semester.* Stewart Hall. Hutcheson.

65–66. NEVADA HISTORY. First half ends at Statehood and early Comstock, about 1866. One hour lecture weekly, added credit for extra reading reports. *Both semesters. One, two, or three credits.* Stewart Hall. Hutcheson.

67. UNITED STATES; COLONIAL PERIOD. History of the English colonies, 1607–1776; with some attention to the influence of Spain and France. *First semester. Two credits.* Stewart Hall. Auchampaugh.

69. RECENT EUROPEAN HISTORY, 1870–1914. Background of the World War: nationalism, colonial expansion, problems of peace, and the collapse of world order. *First semester. Three credits.* Stewart Hall. Mazour.

70. EUROPE BETWEEN THE FIRST AND SECOND WORLD WARS, 1914–1939. A detailed analysis of a turbulent era. *Second semester. Three credits.* Stewart Hall. Mazour.

71–72. ANCIENT CIVILIZATION. Origins of Western civilization in the Near East, Greece, and Rome: art, culture, society, and politics. *Both semesters. Two credits each semester.* Stewart Hall. Hutcheson.

76. MEDIEVAL HISTORY, 400–1500. Civilization of medieval Europe: culture, the Church, and law. Background of modern nations. *Second semester. Three credits.* Stewart Hall.

77A–78A. IMPERIALISM AND WORLD PEACE. A study of European colonial expansion and the problem of maintaining peace. *Both semesters. Two credits each semester.* Stewart Hall. Mazour.

79–80. THE FRENCH REVOLUTION AND NAPOLEON. An intensive study of the great epoch extending from 1789 to 1815. *Both semesters. Two credits each semester.* Stewart Hall. Mazour.

81–82. THE FAR EAST. Domestic and international relations of China and Japan from the earliest times to the present. *Both semesters. Two credits each semester.* Stewart Hall. Hicks.

83–84. HISTORY OF RUSSIA. Foundations of the Russian state and society. The imperial and revolutionary eras. *Both semesters. Three credits each semester.* Stewart Hall. Mazour.

85. UNITED STATES, 1776–1865. The Revolution; contitution-making; problems of peace; War of 1812; domestic problems; slavery and State rights; the Oregon question; Texas; the Mexican War; the Civil War. *First semester. Three credits.* Stewart Hall. Auchampaugh.

87. ENGLISH CONSTITUTIONAL HISTORY. The rise and development of institutions—such as free, representative government, the jury system, and English law—which were transmitted to Colonial America to become the basis of government in the United States. *First semester. Three credits.* Stewart Hall. Hutcheson.

89A–90A. AMERICAN CONSTITUTIONAL HISTORY. A narrative and interpretative study of the origin and growth of the institutional forms and principles which have crystallized into the American constitutional system. *Both semesters. Three credits each semester.* Stewart Hall. Auchampaugh.

94. UNITED STATES SINCE 1865. Reconstruction; economic and diplomatic affairs; the Far West; the tariff; war with Spain; the World War and its aftermath. *Second semester. Three credits.* Stewart Hall. Auchampaugh.

97–98. MODERN GERMANY. The problem and achievement of unification; Germany as a world factor. *Both semesters. Three credits each semester.* Stewart Hall. Mazour.

99–100. SEMINAR. *Both semesters. Credits arranged.* Stewart Hall. Staff.

199–200. GRADUATE THESIS. *Both semesters. Credits arranged.* Staff.

Political Science

3–4. AMERICAN GOVERNMENT. A basic course dealing with the organization, the working principles, structural problems and functional processes of the Federal, State, and local governments of the United States; and with recent trends in administration and constitution-making. *Two semesters. Three credits each semester.* Stewart Hall. Smith, Auchampaugh.

5–6. COMPARATIVE GOVERNMENT. A study of the frameworks, functions and motivating ideals of various representative democratic and totalitarian governments. Not open to Freshmen. *Two semesters. Two credits each semester.* Stewart Hall. Smith, Hicks.

57. ELEMENTS OF POLITICAL SCIENCE. An introduction to certain concepts, distinctions and terminology necessary for an intelligent approach to a study of the science of politics; theories as to the origin, nature, and functions of the State. *First semester. Three credits.* Stewart Hall. Smith.

59. HISTORY OF POLITICAL THOUGHT. A survey course designed to portray the historical development of political thinking from the classical period to the present. A discussion of types of inquiry, or methods of approach. *First semester. Two credits.* Stewart Hall. Smith.

64. INTERNATIONAL LAW AND ORGANIZATION. The elements of International Law, and a study of organizational forms as they relate to international law and procedure. *Second semester. Two credits.* Stewart Hall. Smith.

68. POLITICAL PARTIES. The party system in the United States; the history, composition, and functions of parties—their organization and methods. *Second semester. Three credits.* Stewart Hall. Smith.

76. PUBLIC PERSONNEL ADMINISTRATION. A study of methods of recruiting, examining, training, and of other techniques utilized in the management of employees in Government service. *Second semester. Two credits.* Stewart Hall. Smith.

77. AMERICAN DIPLOMACY. Foreign relations of the United States; principles, policies, and methods. Monroe Doctrine; arbitration; Open Door policy; freedom of the seas; disarmament; cooperation. *First semester. Two credits.* Stewart Hall. Smith.

79–80. CONSTITUTIONS OF THE UNITED STATES AND NEVADA. Origins, history, and essentials of these constitutions—with emphasis upon devotion to American institutions and ideals. United States Constitution the first semester; Nevada Constitution the second semester. *Both semesters. One credit each semester.* Hicks, Smith, Auchampaugh.

83–84. PRINCIPLES OF PUBLIC ADMINISTRATION. Principles and problems of public administration; the budget; forms of administrative action; types of control; administrative law. *Both semesters. Two credits each semester.* Stewart Hall. Smith.

99–100. SEMINAR. *Both semesters. Credits arranged.* Stewart Hall. Staff.

199–200. GRADUATE THESIS. *Both semesters. Credits arranged.* Smith.

HOME ECONOMICS

Professor SWIFT (Chairman of Department); Associate Professor POPE; Assistant Professor MARSH (on leave); Miss CARROLL, Mrs. RICE, Miss WINGROVE.

A Home Economics minor is offered to students in the College of Arts and Science. 18 credits are required of which 6 credits must be in courses numbered 50 or above.

3. INTRODUCTORY COURSE. The course is planned to help freshmen solve their present student problems, assist them in the selection of courses for succeeding years, and to acquaint students with the scope of home economics and the opportunities offered in this field. *First semester. Lecture, two periods. Two credits.* 110 Agriculture Building. Pope.

15–18. CLOTHING. Emphasis on good grooming, selection, care and construction. Use of commercial patterns. Equipment, and making of clothing budget. *Lecture, one hour. Workshop, two hours. Both semesters. Three credits.* Fee $4. Pope.

16. TEXTILES. Textile fibers and fabric construction; label study and consumer demand. *Lecture, two hours. Laboratory, one hour. Second semester. Three credits.* Fee $4. Pope.

31–32. GENERAL FOODS. A study of food selection-costs and preparation. Emphasis placed on food substitution and ration foods. *Lecture, one hour. Laboratory, two hours. Both semesters. Three credits.* Fee $8.

33. NUTRITION IN HEALTH. A scientific study of nutrition involving digestive and metabolic processes and products. Emphasis on community nutritional problems. *Lecture, three hours. First semester. Three credits.* Rice.

34. NUTRITION IN DISEASE. Dietary adjustments for abnormal conditions. *Lecture, one hour. Laboratory, two hours. Second semester. Three credits.* Rice.

42. FOOD ECONOMICS. How to select and purchase food for home and institution with regard to rationing and income. Laws and agencies affecting foodstuffs. *Lecture, three hours. Second semester. Three credits.* Fee $2.

46. RELATED ART. Practical application of color and design to home needs. *Laboratory, two hours. Second semester. Two credits.* Fee $4. Pope.

50. FOODS AND NUTRITION. Elementary nutrition and food preparation. Open to pre-nursing and arts students. *Lecture, two hours. Laboratory, one hour. Second semester. Three credits.* Fee $5. Swift.

53. CARE OF HEALTH AND DISEASE. How to maintain health and care for illness in the home; community health and first aid. Red Cross certificate included. *Lecture, two hours. Laboratory, one hour. First semester. Three credits.* Fee $2.

55. MEAL PLANNING. Actual purchase of food, preparation and service by each individual student. Time and fuel studies included. *Lecture one hour. Laboratory, six hours. First semester. Four credits.* Fee $5. Pope.

56. Food Management for Lay Groups. Practical budgeting, planning, and buying of foods. *Lecture, two hours. Two credits.* Marsh. (Not offered in 1945–1946.)

57. Camp Cookery for Men. Practical food selection and preparation. *Lecture, one hour. Laboratory, camp, or both. Three credits.* Fee $8. (Not offered in 1945–1946.)

66. Advanced Clothing. A study of the human figure, stressing silhouette. History of period-costume; planning and construction of complete costume; workshop includes tailoring. *Lecture, one hour. Workshop, two hours. Second semester. Three credits.* Fee $4. Pope.

67. Clothing. Children's clothing. Construction of layette, self-help "toddlers," and "runabout" clothing. Workshop includes outer garment construction. *Lecture, one hour. Workshop, two hours. First semester. Three credits.* Fee $4. Pope.

68. Costuming. Application of color and design to creative costuming. Especially helpful for the elementary and grade teacher. *Laboratory, two hours. Second semester. Two credits.* Pope.

75–76. Child Development. Growth and development of the normal pre-school child. Each student makes consistent observations of child in a home situation. *Lecture, three hours. Both semesters. Three credits.* Carroll.

83–84. Special Problems in Foods. Field work for seniors or graduates. *Lecture, three hours. Both semesters. Three credits.* Fee $8. Swift.

86. Home Management. A study of management in homes. *Lecture, three hours. Second semester. Three credits.* Swift.

87. Home Decoration. Practical application of art principles to planning and furnishing a home. Emphasis on reconditioning the old; and economy of the new. *Lecture, one hour. Laboratory, two hours. First semester. Three credits.* Fee $3. Pope.

88. Household Equipment. Evaluation of costs, time, and labor-saving equipment; how to operate, care for, and repair it. *Lecture, one hour. Laboratory, one hour. Second semester. Two credits.* Fee $2. Pope.

91. Education for Dietetic Majors. This course meets the requirements of the American Dietetics Association. *Lecture, three hours. First semester. Three credits.* Swift.

94. Experimental Cookery. Development of experimental methods; their application to investigations in cookery and

skills involved. *Lecture, one hour. Laboratory, two hours. Second semester. Two credits.* Fee $15. Swift.

95. SPECIAL PROBLEMS IN CLOTHING. On request. Field work for seniors or graduates. *Lecture, three hours. Second semester. Three credits.* Fee $4. Pope.

96. QUANTITY COOKERY. Planning, selecting, preparing, and serving of foods in quantity for large groups. Special emphasis given to school lunch and emergency feeding. *Two, three-hour laboratories. Second semester. Three credits.* Fee $4.

98. INSTITUTION MANAGEMENT. Organization, management of food, and cost control, equipment, floor plans, personnel problems, and labor laws of various institutions. *Lecture, three hours. Second semester. Three credits.*

99. DEMONSTRATION. Principles and techniques involved in food-demonstrations with practical experience. Each student gives one five minute, ten minute, fifteen minute, thirty minute, and one hour demonstration. *Five hours laboratory. One hour lecture. Three credits.* Fee $12. Swift.

102. CONSUMER EDUCATION. Consumer interest problems that concern the home and community at the present time. *Lecture, three hours. First semester. Three credits.*

ITALIAN

(See Foreign Languages.)

JOURNALISM

Professor HIGGINBOTHAM (Chairman of Department); Mr. JANULIS, Mrs. MERGEN; cooperating newspapermen.

Requirements for a minor in journalism: Journalism 1–2 (4 credits), journalism 21–22 (6 credits), journalism 51–52 (4 credits), and 4 additional credits in journalism courses numbered 50 or above.

Requirements for a major in journalism: Journalism 1–2 (4 credits), journalism 21–22 (6 credits), journalism 51–52 (4 credits), journalism 53 (3 credits), journalism 72 (1 credit), journalism 81–82 (2 credits), and 7 additional credits in journalism in courses numbered 50 or above.

To complete the major in journalism or the Course in Journalism, a student must earn an average of *at least* two grade points in his courses in journalism.

In their sophomore, junior, and senior years, students specializing in journalism are advised to include Journalism 31–32, 61–62, etc., in their schedules whenever possible in order to build up a background of the news of each year.

Courses in the social sciences and in literature should supplement those in journalism.

For an explanation of the four-year professional Course in Journalism, see page 143.

1–2. INTERPRETING THE DAY'S NEWS. Study of the news of the day and the function of the newspaper in American life. Open to all students. Course may be started with Journalism 1 or Journalism 2. *Both semester. Two or three credits each semester.* 102 Hall of English. Staff.

21–22. NEWS GATHERING AND WRITING. What makes news, how news is obtained, and how news is written are studied and the principles applied in reporting news for the U. of N. Sagebrush, the Reno newspapers, and the United Press. Discussions and laboratory. *Prerequisite:* sophomore standing and the consent of the instructor. *Both semesters. Three credits each semester.* 106 Hall of English. Mergen and Janulis.

31–32, 61–62, 91–92. ADVANCED INTERPRETATION OF THE DAY'S NEWS. Study and interpretation, upon an advanced level, of the news of the day. *Prerequisite:* Journalism 1–2. *Both semesters. One or two credits each semester.* 102 Hall of English. Mergen and Janulis.

51–52. NEWS EDITING. Work in copy reading, rewriting, headline writing, news evaluation, the mechanics of publishing, and make-up accompanied by study of the principles which govern these and similar duties of the newspaper copy editor. *Prerequisite:* Journalism 21–22 and the consent of the instructor. *Both semesters. Two or three credits each semester.* 105 Hall of English. Mergen and Janulis.

53. THE EVOLUTION OF THE NEWSPAPER AS A SOCIAL INSTITUTION. The development of the newspaper in America, from colonial times to the present, especially in relation to political, economic, and social movements, and the men and the newspapers which created the traditions of modern journalism. Open to juniors and seniors. *First semester. Three credits.* 105 Hall of English. Higginbotham.

54. ADVANCED REPORTING. Study of the background and materials of the news of public affairs, together with the actual reporting of such news from representative sources in Reno and Carson City. *Prerequisite:* Journalism 21–22. *Second semester. Three credits.* 105 Hall of English. Higginbotham. (Alternate years.)

56–57. ADVERTISING AND ADVERTISEMENT COPY WRITING. Study of the principles of advertising (first semester) and their practical application in the writing of copy for the newspaper and the magazine (second semester). *Prerequisite:* Journalism 21 22, or the consent of the instructor. Open to juniors or seniors in Business Administration. *Both semesters. Two credits each semester.* 102 Hall of English. Mergen. (Alternate years.)

65–66. COMMUNITY NEWSPAPER MANAGEMENT. Study of the problems of journalism peculiar to the country weekly and small city daily, especially as found in Nevada. Editorial, circulation, and advertising management will be stressed. *Prerequisite:* Journalism 21–22. *Both semesters. Two credits each semester.* 105 Hall of English. Higginbotham and Janulis. (Alternate years.)

67. EDITORIAL WRITING. The study of the interpretation of contemporary events through the newspaper and magazine editorial, coupled with extensive practice in writing. *Prerequisite:* Journalism 21–22 or the consent of the instructor. *Second semester. Two or three credits.* 105 Hall of English. Higginbotham. (Alternate years).

68. THE FEATURE ARTICLE. The study, writing, and marketing of the special feature article for magazines and newspapers. *Prerequisite:* Journalism 21–22, or the consent of the instructor. *Second semester. Two credits.* 102 Hall of English. Mergen. (Alternate years.)

72. THE LAW OF THE PRESS. Study of State and Federal laws affecting the reporting of news, the expression of opinion, advertising, and the publication of newspapers and magazines, and radio broadcasting. *Prerequisite:* Journalism 21–22. *Either semester. One or two credits.* 105 Hall of English. Higginbotham.

75. NEWS PHOTOGRAPHY. Study of the principles of reporting news through photography and the application of them in practice work for various publications. Discussion and laboratory. *Prerequisite:* Journalism 21–22. *Either semester. Two credits.* 105 Hall of English. Higginbotham. (Alternate years.)

79. THE NEWSPAPER AND SOCIETY. Sociological aspects of journalism, including public opinion, newspaper leadership and responsibility, censorship, propaganda, the world's press, and other contemporary problems. *Prerequisite:* Journalism 21–22 or the consent of the instructor. *First semester. Two or three credits.* 105 Hall of English. Higginbotham. (Alternate years.)

81–82. JOURNALISM INTERNSHIP. Reporting and copy reading as members of the staffs of the Nevada State Journal, the Reno Evening Gazette, the United Press Association, the Associated Press, the Carson City Nevada Appeal; advertising work with Wilson Advertising Agency or the Reno newspapers; or news or advertising work with Radio Station KOH. *Prerequisite:* Open only to seniors in the course in journalism and senior majors in journalism. *Both semesters. One, two, or three credits each semester.* 105 Hall of English. Higginbotham and cooperators in journalism.

86. JOURNALISM ON THE AIR. The principles and practice of writing journalistic types—the news story, the column features, advertising—so that they are adapted to broadcasting. Special emphasis is given to news processing. *Prerequisite:* Journalism 21–22. *Either semester. Two credits.* 102 Hall of English. Janulis. (Alternate years.)

87. JOURNALISM IN THE HIGH SCHOOL. An introduction to the teaching of journalism in high school and to the supervision of high school newspapers, magazines, and year books. Offered especially for majors in English preparing to teach in Nevada high schools. Not acceptable toward the major in journalism or the four-year Course in Journalism. *Either semester. Two* credits. 102 Hall of English. Mergen. (Alternate years.)

93–94, 95–96. INDEPENDENT STUDY. Open only to juniors and seniors in the course in journalism or majoring in journalism who have attained an average grade of B in all their work. Hours to be arranged with individual students. *One credit each semester.* Higginbotham.

LATIN

(See Foreign Languages.)

LIBRARY SCIENCE

Professor HILL (Director of Libraries).

35. USE OF THE LIBRARY. Open to sophomores, juniors, and seniors in the College of Arts and Science. Classification and arrangement of books in the University Library; general principles of cataloging and filing; major reference works in all fields of knowledge; simple forms of bibliography making; intelligent use of the library. *Either semester. Two credits.* Hill.

MATHEMATICS AND MECHANICS

Professor WOOD, Associate Professor BEESLEY (Chairman of Department); Assistant Professors OWENS, LEWIS; Mr. BRADSHAW, Mrs. CARTER, Mr. TOMPSON, Mrs. VAN DYKE, Mr. WIEHE, Mrs. WILLIAMS.

Requirements for a minor in mathematics: Mathematics 11 (3 credits), 13 (2 credits), 14 (3 credits), 23–24 (6 credits), or their equivalent, and 4 additional credits in the department in courses numbered 50 or above.

Requirements for a major in mathematics: Mathematics 11 (3 credits), 13 (2 credits), 14 (3 credits), 23–24 (6 credits), or their equivalent, and 13 additional credits in the department in courses numbered 50 or above.

Mathematics 15 (5 credits) and 16 (5 credits) may be substituted for 11, 13, and 14 in the major and minor requirements.

A. REFRESHER ALGEBRA. A thorough review of algebra for students of the College of Engineering who fail to pass the qualifying examination in Mathematics 15. This course carries no university credit but may be used to remove entrance deficiencies. *Each semester.* Van Dyke.

B. PLANE GEOMETRY. This course carries no university credit but may be used to remove entrance deficiencies. *Each semester.* Van Dyke.

5. INTERMEDIATE ALGEBRA. A second course in algebra for students who have had one year of algebra in the high school. No college credit allowed for students in the College of Engineering. *Each semester. Two credits.* The Staff.

8. SOLID GEOMETRY. The geometry of the plane, the cone, the prism, the pyramid, and the sphere, with practical applications. *Second semester. Two credits.*

11. COLLEGE ALGEBRA. Progressions, binomial theorem, logarithms, inequalities, systems of linear and quadratic equations, determinants, elementary theory of equations, permutations and combinations. *Prerequisite:* Mathematics 5 or 1½ years of high school algebra. *Each semester. Three credits.* Mackay Science Hall. The Staff.

13. PLANE TRIGONOMETRY. A study of the trigonometric functions, indentities, and the solution of triangles. *Prerequisite:* Plane geometry and one year of high school algebra. *Each semester. Two credits.* The Staff.

14. ANALYTIC GEOMETRY. An analytical treatment of the properties of the straight line, circle, parabola, ellipse, and hyperbola. Polar coordinates, the transformation of coordinates, and the general second-degree equation in two variables will be studied. *Prerequisite:* Mathematics 11, 13. *Second semester. Three credits.* Owens.

15–16. ELEMENTARY MATHEMATICAL ANALYSIS. A unified treatment of the elements of college algebra, trigonometry, and analytic geometry, with special emphasis upon the applications. This course is required of all engineering students and is recommended for all others who intend to specialize in mathematics or who desire mathematical preparation for scientific work. This course will begin with a two-weeks intensive review of algebra, including quadratics, exponents, and radicals. At the end of this period an examination will be given. Students who fail to pass this examination or those who fail to carry mathematics 15 will be transferred to mathematics A. *Both semesters. Five credits each semester.* The Staff.

18. MATHEMATICS OF FINANCE. A mathematical study of

interest, annuities, sinking funds, depreciation, amortization and other topics relating to business problems, including an introduction to the mathematics of life insurance. *Prerequisite:* Mathematics 11. *Second semester. Three credits.* Alternates with mathematics 20. Owens.

20. MATHEMATICAL STATISTICS. A mathematical study of frequency distributions, averages, dispersion, probable error, correlation, graphical methods and other related topics, with application to problems in the social and natural sciences. *Prerequisite:* Mathematics 11. *Second semester. Three credits.* Alternates with mathematics 18.

22. MATHEMATICS FOR STUDENTS OF AGRICULTURE AND BIOLOGICAL SCIENCES. A study of the essentials of algebra, trigonometry, elementary mechanics, statistics, graphical methods, logarithmic paper, and other topics with applications. This course is designed to meet the needs of students in the College of Agriculture, preforestry, and other students in the biological sciences. *Prerequisite:* 1½ years of high school algebra or Mathematics 5 and plane geometry. *Second semester. Four credits.* Tompson.

23–24. DIFFERENTIAL AND INTEGRAL CALCULUS. The elements of the calculus with applications. Designed for students in the College of Arts and Science. *Prerequisite:* Mathematics 11, 13, 14, or Mathematics 15, 16. *Both semesters. Three credits each semester.* Beesley.

25–26. CALCULUS. A unified course in differential and integral calculus, with special emphasis upon the applications. Required of all students in the Mackay School of Mines ~~and the School of Civil Engineering.~~ *Prerequisite:* Mathematics 15, 16. *Both semesters. Three credits each semester.* Beesley and Staff.

27–28. ENGINEERING CALCULUS. A more extensive course than 25–26. Required of all students of mechanical and electrical engineering. Other engineering students who plan to take mathematics courses beyond Mathematics 56 should substitute this for 25–26. *Prerequisite:* Mathematics 15, 16. *Both semesters. Four credits each semester.* Beesley and Staff.

34. MATHEMATICS OF AIR NAVIGATION. Maps and charts, piloting, dead reckoning and radio. Celestial methods may be discussed briefly but emphasis is upon problems whose solutions do not require the methods of spherical trigonometry. *Prerequisite:* Mathematics 13. *Either semester. Two credits.*

35. SPHERICAL TRIGONOMETRY. A study of the spherical triangle with applications in astronomy and navigation. This course will furnish a desirable background for study of modern methods in celestial navigation. *Either semester. Two credits.*

45–46. SURVEY. Assigned reading and reports on topics of mathematical interest not covered in the usual courses. The group will meet weekly for presentation and discussion of reports. Open to students who have a definite interest in mathematics and who, in the opinion of the staff, possess sufficient background to undertake the work. *Both semesters. One-half credit each semester.* May be repeated for credit as 45a, 46a. Mackay Science Hall. Staff.

51. HISTORY OF MATHEMATICS. Lectures and assigned readings on the history of the mathematical science. Recommended for students preparing to teach mathematics in high school. Cannot be used for graduate credit. *First semester. Two credits.*

55–56. ANALYTIC MECHANICS FOR ENGINEERS. Work in the resolution of forces, moments of inertia, laws of motion, friction, dynamics of machinery, work and energy, and impulse. Special emphasis is given to practical problems. *Prerequisite:* Mathematics 25, 26; Physics 3. *First semester, three credits. Second semester, two credits.*

57. DETERMINANTS AND THE THEORY OF EQUATIONS. The study of determinants and their applications. The theory of the quadratic, cubic, quartic, and the general algebraic equation. Methods of finding approximate values of the roots of equations. *First semester. Three credits.* Lewis.

59–60. COLLEGE GEOMETRY. A study of advanced geometrical topics such as The Nine Point Circle, Ceva's Theorem, etc., using the methods of proof of elementary geometry. Recommended for students preparing to teach mathematics in high school. *Both semesters. Two credits each semester.* Alternates with Mathematics 73–74. Beesley.

66. TEACHING OF MATHEMATICS. See Education 66c.

70. SOLID ANALYTICAL GEOMETRY. A study of the plane, ellipsoid, paraboloid, hyperboloid, and the general equation of the second degree in three dimensional space. *Second semester. Two credits.*

73–74. PROJECTIVE GEOMETRY. A synthetic development of the more fundamental projective properties of conic sections, including also an elementary treatment of involutions, anharmonic ratios, and the principle of duality. *Both semesters. Two credits each semester.* Alternates with Mathematics 59–60.

85–86. DIFFERENTIAL EQUATIONS. A study of ordinary and partial differential equations of the first and second orders with special attention to geometrical and physical applications. *Both semesters. Two credits each semester.*

87. ADVANCED CALCULUS. A more rigorous study of the differential and integral calculus, with extensive applications to geometrical and physical problems. *First semester. Three credits.* Beesley.

105–106. THEORY OF FUNCTIONS OF THE REAL AND COMPLEX VARIABLE. The first semester deals with real numbers, point sets in metric space, real functions, and properties of continuity, semicontinuity, discontinuity, differentiability and integrability of functions. The second deals with complex numbers, integral theorems, power series, singularities, Riemann Surfaces and conformal mapping. *Both semesters. Three credits each semester.* Mackay Science Hall. Beesley.

115. VECTOR ANALYSIS. A study of the Vector notation applied to problems of physics. *Second semester. Three credits.* Given in alternate years.

135. HARMONIC ANALYSIS. A study of the properties of Fourier Series, Legendre and Bessel Functions, and their use in the solution of partial differential equations of mathematical physics. *Second semester. Three credits.* Given in alternate years.

149–150. SEMINAR. Library work and reports on various topics of mathematical interest. *Both semesters. One to three credits each semester.* May be repeated for credit as 149A–150A.

199–200. THESIS COURSE FOR GRADUATE STUDENTS. *Six credits.* The Staff.

MECHANICAL ENGINEERING

Professor VAN DYKE (Chairman of Department); Associate Professor HARRIS; Mr. EVANS, Mr. MEIXNER, Mr. POOLMAN, Mr. SCHUMACHER; Superintendent RYAN.

5–6. ENGINEERING DRAWING AND DESCRIPTIVE GEOMETRY. The course is intended to give the engineering student a sufficient knowledge and skill in drawing to enable him to make any drawing that may be required of him in his professional capacity. Second semester includes the construction of details from layouts, sub-assembly and assembly drawings, breakdown of a unit device, constructing all necessary drawings. Required of all engineering students. *First and second semester, respectively. Two credits each semester. Prerequisites:* Plane Geometry (Solid Geometry very desirable). Mathematics 15 and 16 to be taken concurrently with M. E. 5 and 6.

30. INTRODUCTORY AERODYNAMICS. A course in elementary aerodynamics covering theory of flight, engines, instruments and other accessories. *Prerequisite:* Mathematics 15–16. *Either semester. Two credits.*

41–42. ADVANCED MACHINE DRAWING. An exacting drill in

projections, intersections, accurate and neat instrumental drawing, including layout, and methods of reproducing drawings. *Prerequisite:* M. E. 5 and 6. *Either semester. Three credits per semester.*

51. KINEMATICS. The study of the laws of motion as they affect the design of machine elements. Forms for gear teeth and cams. Analysis of the motion of machine parts. *Prerequisites:* Physics 3 and 4, Mathematics 27 and 28. *First semester. Three credits.*

53. FUNDAMENTALS OF THERMODYNAMICS. Similiar to M. E. 55 and 56, but abbreviated so that it can be covered in one semester. *Prerequisite:* Physics 3 and 4 and Mathematics 27 and 28. *First semester. Three credits.*

55. THERMODYNAMICS. Principles of engineering thermodynamics; properties of gases; thermodynamic processes of gases; gas cycles; internal combustion engines; air compressors and elements of different types of power plants. *Prerequisites:* Physics 3 and 4, Mathematics 27 and 28. *First semester. Three credits.*

56. APPLIED THERMODYNAMICS. Additional work in thermodynamics; properties of vapors; thermodynamic processes of vapors; vapor cycles; steam engines; steam turbines. *Prerequisite:* M. E. 54. *Second semester. Three credits.*

57. MACHINE DESIGN. The study of the application of the laws of velocity, force, and strength of materials to the design of machinery. Tooth and belt gearing, shafts, journals, bearings, cylinders, springs, bolts, keys, etc. *Prerequisite:* C. E. 72. *First semester. Three credits.*

58. MACHINE DESIGN PROBLEM. A design problem in the field of engines, machinery, or heat power, that is approved by the teacher, is to be analyzed. Each student is to choose his own problem. *Prerequisite:* M. E. 57. *Second semester. Three credits.*

64–65. MECHANICAL ENGINEERING LABORATORY. Laboratory experience in the use of the common instruments to demonstrate their capabilities and limitations particularly with reference to transient measurements. Measurement of mechanical, chemical, thermal and electrical energy, and some conversions and comparisons. Second semester includes the study of experimental thermodynamics involving internal combustion engines, steam engines, and refrigerators; principles of the flow of fluids, heat transfer, and air conditioning. Required of all Mechanical Engineering students. *Second and first semester, respectively. Three credits each semester. Prerequisites:* M. E. 53, or M. E.

55 and 56 completed or taken concurrently. M. E. 64 is prerequisite to M. E. 65. Fee $5 each semester.

71. HEAT–POWER ENGINEERING. Power plants, fuels, combustion, steam generators, turbines, heat transmission, and steam generator accessories. *Prerequisite:* M. E. 56. *First semester. Three credits.* Van Dyke.

72. AIR CONDITIONING AND REFRIGERATION. Air conditioning for human comfort and industrial purposes, including heating and refrigeration. *Prerequisite:* M. E. 56. *Second semester. Three credits.*

76. ADVANCED DYNAMICS OF MACHINERY. Theory of vibrations with applications to problems involving bending and torsion, dynamic balancing, vibration damping, the dynamical vibration absorber, elastic mounting of machines, critical speeds of rotating shafts, etc. Lectures, laboratory demonstrations and experiments and problems. *Prerequisites:* Mathematics 85 and M. E. 57. *Second semester. Three credits.*

77. INTERNAL COMBUSTION ENGINES. A study of modern internal combustion engines of the stationary, automotive and aeronautic types, including spark ignition and compression ignition. Thermodynamics for engine analysis, fuels, mixture requirements, combustion, detonation and its effects, efficiencies, engine performance, etc., are included. *Prerequisite:* M. E. 56. *First semester. Three credits.*

78. AERODYNAMICS. A more advanced course than M. E. 30. The theory of flight, air flow, and principles of design of aircraft structures are covered. The requirements of the aircraft power plant are studied, and data covering modern engines presented. *Prerequisite:* C. E. 93. *First or second semester. Three credits.*

79. HEAT TRANSFER. Review of fundamentals of the transfer of thermal energy and radiant energy. Design problems in heat transfer, and applications of technical design data to specific problems. *Prerequisite:* M. E. 56. *Second semester. Three credits.*

80. THESIS. An original design or an investigation intended to give the student a knowledge of research methods in engineering. This course is elective for seniors and graduates at the discretion of the instructors in the department. *Second semester. One to three credits.* Laboratory fee of $2.50 per credit may be required.

Mechanic Arts

3. MACHINE SHOP. A basic course in machine work following a definite plan throughout the semester, includes instruction in

bench work, lathe, shaper, drill and milling machine. *Either semesters. Two credits.* Mechanical Building. Fee $5 per credit.

5. MACHINE SHOP. An advanced course in gear cutting, face plate work, elementary die making and construction and use of special tools, jigs, and fixtures. *Prerequisite:* M. A. 3 or equivalent. *First semester. One or two credits.* Mechanical Building. $5 per credit.

7. MACHINE SHOP. An advanced course in general machine work for students wishing to develop projects in connection with thesis or special work. *Prerequisite:* Mechanic Arts 3. Also for students desiring to fill in a program in which case the work will consist of problems arising in the repair and maintenance of laboratory and shop equipment. *First semester. One or two credits.* Mechanical Building. Fee to be arranged in accordance with the work undertaken.

20. WELDING AND HEAT TREATING. Shop practice in oxyacetylene and electric arc welding, stress relieving, annealing, and heat treating. *First semester. One credit.* Mechanical Building. Fee $7.50.

26. ENGINEERING MATERIALS AND PROCESSES LABORATORY. Treatment of materials and processes used in industry and studied through use of demonstrations, motion pictures, slides, and field trips to nearby industries. *Second semester. One credit.* Fee $5.

METALLURGY

Professors W. S. PALMER (Chairman of Department), SMYTH; Mr. HAMMOND.

4. ENGINEERING METALLURGY. Lectures and recitations for engineering students on the properties and uses of industrial metals and alloys, metallurgical processes and apparatus, and an introductory course on the metallurgy of iron and steel. *Prerequisite:* Chemistry 8 and physics 1A or 3. *Second semester. Two credits.* Mackay School of Mines. Smyth.

6. ENGINEERING MATERIALS AND PROCESSES. For electrical and mechanical students. Lectures and recitations on the properties, manufacture, shaping and heat treatment of metals, alloys, and other materials. *Prerequisite:* Chemistry 7 and Physics 3. *Second semester. Two credits. Mackay School of Mines.* Smyth.

51. FIRE ASSAYING. Lectures, recitations, and laboratory work in assaying. Methods of assaying, systems of weights used, calculations and problems, equipment of assay laboratories, sampling, chemistry of assaying. The assay of gold and silver ores

of the simpler types followed by the assay of difficult ores and metallurgical products. *Prerequisite:* Geology 12, Chemistry 10. *First semester. Lectures, one hour; laboratory, three periods. Four credits.* Mackay School of Mines. Fee $15. Smyth. Students who do not complete their laboratory work during the regular periods are required to pay an additional fee to cover the extra cost of such work. This fee will be $1 per laboratory period for each period the furnaces are used, plus the cost of any chemicals and supplies used.

56. METALLOGRAPHY. This course is designed to cover the methods of preparation and microscopic examination of specimens of some of the common metals and alloys, illustrating the microstructure of pure metals and alloys, the effect of heat treatment in tempering and annealing, cooling curves, the detection of the presence of flaws and defects in metals, a study of welds, and the effects of strain and mechanical treatment. *Prerequisite:* Metallurgy 4. *Second semester. Lecture, one hour; laboratory, two periods. Three credits.* Mackay School of Mines. Fee $2.50. Palmer.

58. FERROUS METALLURGY. Lectures and recitations on the principles and practice of producing iron and steel, the properties and uses of the ferrous metals, the iron-carbon diagram, mechanical and heat treatment of steel, and alloy steels. *Prerequisite:* Metallurgy 4. *First semester. Two credits.* Mackay School of Mines. Smyth.

61. PYRO-METALLURGY NONFERROUS METALS. Lectures and recitations on the smelting or fire methods of extracting the common metals from their ores and refining processes for these metals by fire methods. The principal metals covered will be copper, lead, zinc, mercury and nickel. *Prerequisite:* Geology 11 and Metallurgy 4 and 51. *First semester. Three credits.* Mackay School of Mines. Palmer.

62. METALLURGY OF THE MINOR AND RARE METALS. Lectures and recitations on the metallurgy of minor and rare metals including the following: Antimony, arsenic, aluminum, bismuth, molybdenum, platinum, tin, and tungsten. *Prerequisite:* Metallurgy 61 and 71. *Second semester. One credit.* Mackay School of Mines. Palmer.

66. ORE DRESSING. Lectures and recitations in ore dressing. Laws of crushing, sizing, and concentration of ores, including flotation. *Prerequisite:* Metallurgy 4, Geology 12 and 14. Course to be taken only with Metallurgy 68. *Second semester. Lectures, two hours. Two credits.* Mackay School of Mines. Palmer.

68. ORE DRESSING LABORATORY. A laboratory course to be taken only with Metallurgy 66. This course covers general practice in the use of the various machines used in ore dressing. *Prerequisite:* Chemistry 10, Metallurgy 51. *Second semester. Laboratory, two periods. Two credits.* Mackay School of Mines. Fee $5. Palmer and Smyth.

71. HYDRO-METALLURGY. Lectures, recitations, and laboratory, exercises on the various hydro-metallurgical methods used in the recovery and refining of the metals gold, silver, copper, lead, and zinc. *Prerequisites:* Metallurgy 51 and 66; Chemistry 10. *First semester. Lectures, two hours; laboratory, one period. Three credits.* Mackay School of Mines. Fee $5. Palmer.

72. ELECTROMETALLURGY. Lectures and recitations on electric smelting and the electrolytic processes involved in the metallurgy of the common and precious metals. *Prerequisite:* Metallurgy 61 and 71. *Second semester. Two credits.* Mackay School of Mines. Palmer.

76. PROBLEMS AND SEMINARS. This course covers common technical and economic problems related to the design, operation, and management of metallurgical plants, and a discussion of articles upon metallurgical subjects. Open only to students after they have completed metallurgical subjects to the second semester of the senior year. *Second semester. Two credits.* Mackay School of Mines. Palmer or Smyth.

79, 80, 81. PROJECT. Two laboratory periods weekly devoted to individual problems in metallurgy. Stress is placed upon amplifying the subject matter of previous metallurgy courses, and in the methods of searching for, summarizing, and presenting the data gathered and worked out. *Prerequisite:* Metallurgy courses to the senior year and taken with Metallurgy 61 and 71. *Both semesters. Two credits.* Mackay School of Mines. Palmer. Fee to be arranged according to work undertaken, and only required with laboratory which uses apparatus, chemicals, etc. When projects involve laboratory work, students shall pay a charge to be based on the number of assays made or the type of work undertaken. The amount to be paid will be determined near the end of the project course and is to be paid as soon as the amount of the charge can be determined.

MILITARY SCIENCE AND TACTICS

Professor PARKER, Colonel U. S. Army (Chairman of Department); Assistant Professor SMEE, Lieutenant Colonel U. S. Army; Sgt. BINGHAM, Sgt. LLOYD, Sgt. MORRIS, Sgt. STULL.

Requirements for a minor in military science: Military 1–2 (2 credits), 3–4 (2 credits), and 14 additional credits in the department.

These descriptions supplement the announcement of the Department of Military Science and Tactics on p. 75 of this Catalogue. The courses are prescribed by the War Department.

1–2. FIRST YEAR ELEMENTARY MILITARY. Two hours drill and two hours conference per week. Required of all first-year men not specifically exempted. Military 1 is not a prerequisite for Military 2. Military 1, *first semester only, one credit.* Military 2, *second semester only, one credit.*

3–4. SECOND YEAR ELEMENTARY MILITARY. Two hours drill and two hours conference per week. Required of all second-year men not specifically exempted. *Prerequisite:* Military 1–2. Military 3 is not a prerequisite for Military 4. Military 3, *first semester only, one credit.* Military 4, *second semester only, one credit.*

51–52. FIRST YEAR ADVANCED INFANTRY. Two hours drill and three hours conference per week. These are the first two numbers of an elective group consisting of 51, 52, 53, 54, and 55 which must be taken in that order. Each application for enrollment in this group must be approved by the PMS&T subject to the limitations of annual quotas fixed by the War Department. Initial enrollment at midyear is discouraged. *Prerequisites:* Military 1, 2, 3, and 4, or their equivalent. Military 51, *first semester only, three credits.* Military 52, *second semester only, three credits.*

53A. INFANTRY CAMP. All who take Advanced Infantry training are required to attend a six-week summer camp immediately following Military 52. The place and dates of attendance will be announced at a later date. *Prerequisites:* Military 51–52. *Two credits.*

53–54. SECOND YEAR ADVANCED INFANTRY (not given in 1946–1947). Two hours drill and three hours conference per week. *Prerequisites:* Military 51, 52, 53A. Military 53, *first semester only, three credits.* Military 54, *second semester only, three credits.*

61–62. FIRST YEAR ADVANCED AIR FORCES. Two hours drill and three hours conference per week. These are the first two numbers of an elective group consisting of 61, 62, 63A, 63, and 64, which must be taken in that order. Each application for enrollment in this group must be approved by the PMS&T, subject to the limitations of annual quotas fixed by the War Department. Completion of this group plus the subsequent year of active duty with the air forces required for a reserve commission, also qualifies the student for any commercial flying license requiring

not more than 200 hours flying experience. *Prerequisites:* Military 1, 2, 3, and 4, or their equivalent. Initial enrollment at mid-year is discouraged. Military 61, *first semester only, three credits.* Military 62, *second semester only, three credits.*

63A. AIR FORCE CAMP. All who take Advanced Air Force training are required to attend a summer camp immediately following Military 62. The place, date of reporting, and duration of this camp will be announced at a later date. At the completion of this camp, the student is qualified for a private flying license. *Prerequisites:* Military 61–62. *Two credits.*

63–64. SECOND YEAR ADVANCED AIR FORCES. (Not given in 1946–1947.) Two hours drill and three hours conference per week. *Prerequisites:* Military 61, 62, 63A. Military 63, *first semester only, three credits.* Military 64, *second semester only, three credits.*

MILITARY BAND. The University Band functions as a military band by participating in ceremonies and other formations as needed. A student enrolled in Military 1, 2, 3, or 4 may substitute band training for the two weekly drill periods for either one of the two years of elementary training provided prior approval is obtained from the PMS&T. Band training is not acceptable as a substitute for any part of the work in advanced military courses.

MINERALOGY

(See Geology.)

MINING

Professors CARPENTER (Chairman of Department), SMYTH; Mr. COUCH.

1. INTRODUCTORY MINING. An introductory course for Freshmen engineers who have expressed a preference for the School of Mines course. The subject matter will consist of a general presentation of mining, metallurgic and geologic fundamentals and history, using the museum, library, and laboratories for demonstration purposes, and orientation lectures. *Freshman year. First semester. One credit.* Carpenter.

5. PRACTICAL MINING. Practical work in mining or metallurgy during the summer vacation. Such work must extend over a period of at least one month, and a satisfactory report must be prepared upon it. *Freshman, sophomore, or junior vacation. Required for graduation. No credit.*

51. EXCAVATION. Lectures and recitations on the principles and practice of excavation, including earth excavation, rock

drills and drilling practice, explosives and blasting practice, quarrying, tunneling, shaft sinking and boring. Stress is placed upon the underlying principles of physics and chemistry. *Prerequisite:* Physics 3 and 4; Chemistry 7 and 8. *Junior year. First semester. Three credits.* Smyth.

52. MINE PLANT. Lectures on the principles and practice of underground and surface haulage, hoisting, air compression, mine drainage, ventilation and illumination. Stress is placed upon the underlying principles of physics and mechanics. *Prerequisite:* Physics 3 and 4; Mathematics 55. *Junior year. Second semester. Three credits.* 101 Mackay School of Mines. Carpenter.

61. MINING METHODS. Lectures and recitations on the prospecting, development, and exploitation of mineral deposits, including underground metal mining methods in detail, with quarrying, coal mining, and placer mining methods in brief. *Prerequisite:* Mining 51 and 52. *Senior year. First semester. Three credits.* Carpenter.

72. MINE ADMINISTRATION. Lectures and recitation on the business, sociology, and laws of mining, including mine examination, organization of staff, problems concerning power, labor and supplies, compensation and accident insurance, welfare work, accidents and their prevention. Federal and State mining laws with mine maps and models. *Prerequisite:* Mining 61. *Senior year. Second semester. Three credits.* Smyth.

74. MINERAL INDUSTRY ECONOMICS. Lectures and recitations on economic problems of mining and metallurgy and mine accounting, including incorporations and securities, depreciation, depletion, amortization, taxes, assessments and dividends, and laws governing the same, the cost of mining, milling, and marketing, and cost accounting methods. *Prerequisite:* Mining 61. *Senior year. Second semester. Three credits.* Carpenter and Couch.

79, 80, 81. MINING PROJECT. Two laboratory periods weekly devoted to individual problems in mining, progressing from those of small properties to specific problems concerning shaft sinking, tunneling, or the like on a large scale, and finally to working of mines based upon those in actual operation in important mining camps. Stress is placed upon amplifying the subject matter of previous mining courses and in the methods of searching for, correlating, and presenting the data gathered and worked out. *Prerequisite:* Mining 51–52. *Both semesters. Two credits each semester.* A charge based on equipment and material used. Carpenter.

Music

Professor Post (Chairman of Department).

Requirements for a minor in music: 1–2 (2 credits), 5 or 65 (2 credits), 9–10 or 57–58 (2 to 4 credits), 11–12, or 15–16, or 17–18 (2 credits), 50–51 (6 credits), 54–55, or 59–60, or 63–64 (2 credits), 57 (2 credits).

1–2. Music Reading and Ear Training (for elementary teachers and students preparing for harmony). Learning to read by "sol-fa" system of simple unison and two-part folk songs in all keys and common rhythms. Notation, terminology, intervals, scales, and a listening experience with selected music literature contained in the library of phonograph records. *Both semesters. One credit each semester.* 204 Education Building. Post.

5. Teaching of Music. (Same as Education 21.) The aims and principles of music teaching in the kindergarten, elementary, and upper grades. Group technique, song leading, interpretation, rhythmic activities. Care of the voice through various periods of development. Remedial exercises for improving pitch defects and tone quality. Music materials, rote songs, unison and descant songs, part songs, records, radio, and methods of approach for the listening period. *First semester. Two credits.* Education Building. Post.

9. Eighteenth-Century Music. (Open to all students and visitors with admission cards. No previous experience necessary.) Content of music as found in the pre-Bach and eighteenth century classic period. Recorded examples of Gregorian chant, minstrelsy, folk-songs, the Netherland School and Palestrina; Bach, Handel, Gluck, Haydn, Mozart, and Beethoven. Historical and biographical background. Lectures, recitals, and illustrations from the Carnegie University Library of records and scores. *First semester. Two credits.* 204 Education Building. Post.

10. Nineteenth-Century Music. (Open to all students and visitors with admission cards. No previous experience necessary.) The music of the Romantic period. Schubert, Weber, Schumann, Mendelssohn, Berlioz, Liszt, Wagner, Brahms, Chopin, Grieg, Dvorak, Saint Saens, and Franck. Period background, records, scores, lectures, and recitals provide material for observation and study. *Second semester. Two credits.* 204 Education Building. Post.

11–12. Campus Choral Club and University Singers. Open to all students, men and women, interested in choral singing, who have at least average qualifications of voice and are approved by the director. Representative selections from the best vocal literature such as the oratorio "Messiah" by Handel, the "Requiem" by Brahms; concert versions of parts of the

operas such as "Carmen" by Bizet, "Tannhauser" by Wagner; other selections and part songs. One or more public concerts are given each year in joint performance with the Reno Civic Chorus. *Two semesters. One credit each semester.* 204 Education Building and New Gymnasium. Post.

15–16. RENO CIVIC ORCHESTRA. Open to all men and women students who play orchestral instruments, subject to examination and approval of the director. The orchestra assists the Reno Civic Chorus in the performance of Handel's "Messiah" and other large works for chorus and orchestra. In addition, attractive instrumental works are prepared and played in one or more public concerts each year. *Two semesters. One-half credit each semester.* New Gymnasium. Post.

17–18. BAND. (See under military for a description of the requirements and credits for men assigned to the band as a substitute for military.) University students, both men and women are eligible for membership in the University band. The schedule calls for appearances at civic and university parades, athletic contests, rallies, and an annual spring concert. One out-of-town trip with the football team is usually made each year. *Two semesters. One credit each semester.* New gymnasium. Post.

50–51. HARMONY (open to all students who have had Music 1 and 2 or the equivalent). Study of scales, intervals, fundamental triads, seventh chords, in the major and minor modes. Ear training, keyboard drill, simple analysis, harmonization of melodies. Some original work. *Two semesters. Three credits each semester.* 204 Education Building. Post.

52–53. ADVANCED HARMONY. Study of secondary sevenths, ninth chords, altered chords, modulation, suspension and passing tones, analysis, original work. Continued ear training. Open to all students who have had Music 50–51, or the equivalent. *Two semesters. Three credits each semester.* 204 Education Building. Post.

54–55. CAMPUS CHORAL CLUB AND UNIVERSITY SINGERS. For description, see Music 11 and 12. *Prerequisite:* Music 11–12. *Two semesters. One credit each semester.* 204 Education Building and New Gymnasium. Post.

57. RUSSIAN MUSIC. (Open to all students and visitors with admission cards. No previous experience necessary.) A survey of the music of Glinka, Tschaikowsky, Rimsky-Korsakoff, and the Russian "Five"; Russian Nationalism; Scriabin, Stravinsky, Prokofieff, Rachmaninoff, Shostakovich, and other moderns, with illustrations for the records. Historical and

biographical background. *First semester. Two credits.* 204 Education Building. Post.

58. MUSIC OF TODAY. (Open to all students and visitors with admission cards. No previous experience necessary.) Late nineteenth- and twentieth-century composers of all nations with special emphasis upon American music. Consideration of modern trends in both classical and popular fields. Debussy, Richard Strauss, Sibelius, Ravel, Schonberg, MacDowell, Harris, Copeland, Gershwin, Taylor, Chadwick, Hindemuth, Milhaud, Grofe, Griffis, Vaughan Williams, Carpenter, Block, Whiteman, Foote, Hadley, Loeffler, Schelling, Cowell, Herbert, and others. Film and radio music and Latin-American contributions illustrated by the records. *Second semester. Two credits.* 204 Education Building. Post.

59–60. RENO CIVIC ORCHESTRA. For description see music 15–16. *Prerequisite:* Music 15–16. *Two semesters. One-half credit for each semester.* New Gymnasium. Post.

63–64. BAND. For general description, see Music 17–18. *Prerequisite:* Music 17–18. New Gymanisum. Post.

65. HIGH SCHOOL MUSIC. (Same as Education 65.) Conducting. Instrumental technique. Practical consideration of instrumentation transposing instruments, and teaching material of all grades. Choral technique. Voice ranges of boys and girls, the changing voice, remedial exercises. Materials for part singing, girls' and boys' glee clubs, and mixed chorus. High school music curricula. Technical and appreciatory objectives. Active participation in orchestra, glee club, or band required and applicant must be a junior or senior with a minor in music or its equivalent. *Second semester. Two credits.* Education Building. Post.

PHILOSOPHY

Professor THOMPSON (Chairman of Department); Assistant Professor BUGBEE.

Requirements for a minor in philosophy: Psychology 5 (3 credits), philosophy 7 or 8 (3 credits), and 21 (3 credits), and 9 credits in the department in courses numbered 50 or above.

Requirements for a major in philosophy: Psychology 5 (3 credits), philosophy 7 or 8 (3 credits), and 21 (3 credits), and 15 credits in the department in courses numbered 50 or above.

The following courses are recommended, but not required, for majors and minors in philosophy: Psychology 51 and 62, economics 1 and 2, sociology 81, and political science 1 and 2.

1. INTRODUCTION TO PHILOSOPHY. A brief study of the problems of philosophy with the solutions suggested by the various schools. Designed both for the student who wishes a perspective for further work in philosophy, and for the student who

desires a general knowledge of the scope and methods of philosophy. *Open to freshmen. Either semester. Three credits.* 202 Morrill Hall.

7. DEDUCTIVE LOGIC. Terms, definition, division, syllogism and fallacies. Text, lectures and exercises. *Open to freshmen. First semester. Three credits.* 202 Morrill Hall. Thompson.

8. INDUCTIVE LOGIC. The assumptions of induction methods of scientific investigation, fallacies, the tests of truth. Text, lectures and exercises. *Open to freshmen. Second semester. Three credits.* 202 Morrill Hall. Thompson.

21. ETHICAL THEORIES. A study of the leading theories of moral principles and ideals. Among the topics discussed will be the concept of the good, duty, egoism, altruism, freedom, responsibilty, and the doctrine of virtues. *Open to sophomores. First semester. Three credits.* 202 Morrill Hall. Thompson.

22. APPLIED ETHICS. The application of ethical theory to typical problems of institutional life, property, and the family. *Open to sophomores. Second semester. Three credits.* 202 Morrill Hall. Thompson.

51. HISTORY OF ANCIENT PHILOSOPHY. A study of Greek and Roman philosophy, and of Medieval philosophy to the decline of scholasticism. *Prerequisite:* One course in philosophy. *First semester. Two or three credits according to the work done.* 202 Morrill Hall.

52. HISTORY OF MODERN PHILOSOPHY. A study of the problems and concepts of philosophy from Descartes to the present time. *Prerequisite:* One course in philosophy. *Second semester. Two or three credits according to the work done.* 202 Morrill Hall.

53–54. PHILOSOPHICAL TENDENCIES OF THE PRESENT. A review and criticism of the main tendencies in present philosophical thought with reference to concrete social problems. Special attention will be given to absolutism, pragmatism, pluralism, and the philosophy of James. *Prerequisite:* One course in philosophy. *Both semesters. Two credits each semester.* Alternates with philosophy 51 and 52. 202 Morrill Hall. (Not offered in 1946–1947.)

55. AESTHETICS. A philosophic analysis and appraisal of the aesthetic experience to determine the meanings of beauty and of ugliness. Special consideration will be given to the origin and nature of art; its significance for religion, morality, and social life. Contemporary theories of aesthetics will be analyzed and their standards of criticism evaluated. *Prerequisite:* Junior standing. *First semester. Two credits.* 202 Morrill Hall.

61. INTRODUCTION TO RELIGION. A study of the forms and psychological aspects of religious experience with special reference to typical historic religions. *Prerequisite:* One course in philosophy and psychology 5. *First semester. Two to three credits according to work done.* 202 Morrill Hall. Thompson.

62. PHILOSOPHY OF RELIGION. The meaning and validity of religious experience. Among the topics discussed will be the religious conception of God, the world, revelation, faith, prayer, evil, immortality. *Prerequisite:* One course in philosophy and psychology 5. *Second semester. Two or three credits according to the work done.* 202 Morrill Hall. Thompson.

82. PHILOSOPHY OF POLITICAL PROBLEMS. The metaphysical basis of the State, the State and its citizens, the State and other States, sovereignty, freedom, democracy, facism and communism, are among the problems discussed. *Prerequisite:* Junior standing and one course in philosophy. *Second semester. Two credits.* 202 Morrill Hall. Thompson.

84. METAPHYSICS. A constructive study of the problems of being, unity, order, and individuality, with practical applications of the theory developed. *Prerequisite:* Two courses in philosophy and psychology 5. *Second semester. Three credits.* 202 Morrill Hall.

100. RESEARCH COURSE. The thesis may be selected in any field of philosophy. For seniors only. *Prerequisite:* The equivalent of a minor in philosophy. *Either semester. Two credits.* 202 Morrill Hall. Thompson.

PHYSICAL EDUCATION

Men

Professor MARTIE (Chairman of Department); Associate Professors SCRANTON, COLEMAN (on leave).

Requirements for a minor in physical education: Courses 1–2 (1 credit, 3–4 (1 credit), or equivalent, 9–10 (2 credits), and 10 credits in the department in courses numbered 50 or above.

Requirements for a major in physical education: Courses 1–2 (1 credit), 3–4 (1 credit), 9–10 (2 credits), 53 (2 credits), 58 (2 credits), 60 (2 credits), 63 (2 credits), 64 (2 credits), and 8 additional credits in the department in courses numbered 50 or above. Zoology 58, and a year of chemistry are strongly recommended. Participation in at least one major sport is required of both majors and minors.

1. DEVELOPMENTAL EXERCISES. Physical examinations are required at the beginning of the semester. Strength tests are given at beginning and again at end of semester. Practical work consists in mass athletics; games selected with a view of developing alertness, coordination, muscular control, vigor and rhythm.

Freshman year. (Required.) *First semester. Two hours per week. One-half credit.* Scranton.

2. DEVELOPMENTAL EXERCISES. Continuation of course 1 with addition of calisthenics and light apparatus. *Second semester. One-half credit.*

3. ADVANCED EXERCISES. Strength tests will be continued as in freshman year. Practical work consists in mat work, tumbling, heavy apparatus using long and short horse and buck. *Sophomore year.* (Required.) *First semester. Two hours per week. One-half credit.*

4. ADVANCED EXERCISES. Continuation of course 3. Heavy apparatus consisting of work with parallel bar, low and high horizontal bars, ladder and stall bar. *Second semester. One-half credit.* Scranton.

By obtaining consent of the head of the department a student may elect any of the following sports as a substitute for the practical work in courses 1, 2, 3, and 4: Football, basketball, track, tennis, cross country, wrestling and tumbling.

5–8. SPECIAL CORRECTIVE EXERCISES. This course is designed for all freshman and sophomores whose physical examinations show they are unfitted to take courses 1, 2, 3, and 4. *One-half credit for each semester's work up to and including four semesters.* Martie.

9. ADVANCED WORK (paralleling courses 3 and 4). *Aim:* To develop squad leaders and to assist men to qualify for a State certificate to teach physical education in high schools. *First semester. Three hours per week. One hour credit.* Scranton.

10. CONTINUATION OF COURSE 9. *Second semester. Three hours per week. One hour credit.* Scranton.

51. FOOTBALL IN THEORY AND PRACTICE. A course of lectures and practical demonstrations for those who may wish to coach, or for players who are out for the varsity or for those who are interested in and wish a more intimate knowledge of America's greatest game. Open only to juniors or seniors who have had two or more years' college experience in this sport. *First semester. One lecture per week and one hour laboratory. Two credits.* Not given unless eight or more are enrolled.

52. BASKET BALL IN THEORY AND PRACTICE. A course of lectures and practical demonstrations in America's leading winter indoor sport. *Second semester. One lecture and one hour laboratory work per week. Two credits.* The same conditions for enrollment must be met as in course 51. Martie.

53. TREATMENT OF ATHLETIC INJURIES. This is a course in first aid with special emphasis on common athletic injuries. It will include the various uses of tape, bandages, splints, etc. Time will be given to the study of the prevention of injuries such as sprains, charley horse, tackle shoulder, blood poison, blisters, etc., as well as treatment for same. *Three periods per week. First semester. Two credits.* Martie.

54. TRACK AND FIELD ATHLETICS. Lectures and demonstrations on each track and field event. *Second semester. One lecture and one hour laboratory per week. Two credits.* The same conditions for enrollment must be met as in course 51.

55. PLAYGROUND. *Prerequisite:* Physical education 53. A study of playground methods, apparatus, and organization. Special attention is given to group games for all ages. Also to the "gang" problem as related to playground. *Three periods per week. First semester. Two credits.*

56. ANTHROPOMETRY. This is a course in physical measurements and methods of detecting physical defects. It will include practical use of charts in connection with physical development. *Three periods per week. Second semester. Two credits.*

57. OFFICIATING MAJOR SPORTS. A careful study of the rules of football, basket ball, and track, with interpretations, methods of officiating, and characteristics of officials. *Three periods per week. First semester. Two credits.*

58. See Education 64A. Martie.

59. CORRECTIVE GYMNASTICS. The work will consist of lectures covering the biological, sociological, and physiological aspect of the causes of functional and structural defects. Practical work will include the use of apparatus and the adaption of various forms of exercises to the needs of the individual.

(a) Improving functional organic capacity.
(b) Correction of physical defects.
(c) Measurements of motor ability.

Three periods per week. First semester. Two credits. Martie.

60. INTRODUCTION TO PHYSICAL EDUCATION AND HEALTH. This course will consider the aims and objectives of physical education and health; the principles underlying the curriculum, standards for selection of activities and criteria for judging the work. Application will be made to the capacities and needs of different age groups. *Three periods per week. Second semester. Two credits.*

61. PHYSICAL DIAGNOSIS AND HEALTH EXAMINATION. The purpose of this course is to enable the teacher to perform a physical

examination and detect gross defects in structural and organic development and function. Infectious diseases are studied and common diseases of the vital organs briefly covered. Laboratory includes practice in diagnosis. *Three periods per week. First semester. Two credits.* Martie.

62. PSYCHOLOGY OF COACHING. Emphasizes the application of practical psychology in all forms of athletic activities. Of special interest to prospective leaders and coaches. Illustrations of applied psychology are collected and analyzed as to values in the relations to specific forms of athletics. *Three periods per week. Second semester. Two credits.* Martie.

63. PHYSIOLOGY OF EXERCISE. This course acquaints students with physiological changes in human organisms due to physical exercise. It furnishes a physiological basis for planning a program of physical education for schools and training programs for the athletic teams. Laboratory experiments deal with simple observations of respiration, circulatory, nervous and metabolic adjustments to physical exercise. *Three periods per week. First semester. Two credits.* Martie.

64. CHARACTER EDUCATION THROUGH PHYSICAL EDUCATION. An application of the principles of leadership to the particular problems in the program of character education in general, but with special references to the character training situations that arise in physical education activities. *Three periods per week. Second semester. Two credits.* Martie.

65. RECREATION LEADERSHIP. A study of community recreation with special emphasis upon its relation to physical education. Designed to aid in preparation for community service. *Three periods per week. First semester. Two credits.* Martie.

PHYSICAL EDUCATION

Women

Professor SAMETH (Chairman of Department); Assistant Professor RUSSELL; Miss VAN GAASBEEK.

Physical Education courses required for a MINOR: 11 or 12 (1), 21, 22, 23 (3), 29 (3), 30 (2), 35 (3), 57 (2), and 4 credits in this department numbered 50 or above, also Zoology 1 and 11.

Physical Education courses required for a MAJOR: 11 or 12 (1), 21, 22, 23 (3), 29 (3), 30(2), 35 (3), 40(2), 55 (2), 57 (2), 63 (2), 71 (3), and 4 credits in this department numbered 50 or above, also Zoology 1, 11, and 58.

Recommended Electives:

(a) Courses which meet University requirements toward graduation: Chemistry 3–4, Economics 7 or 10, Physiology 9–10, Psychology 2, 5, 40, 51, Zoology 22, 55.

(b) Others: Art 5–6, Education 56A, 93, English 11–12, Home Economics 33, 46, 68, 75–76, Music 1–2.

Students may direct their major toward specialization in dance or in sports. For allied majors and minors, consult chairman of department concerned.

1, 2, 3, 4. FRESHMAN AND SOPHOMORE PRACTICE. Required for graduation. Courses numbered in the order in which they are taken, regardless of the activity. Activities usually offered when facilities are available are bowling; conditioning; dance (folk, modern, social); games of low organization; golf; individual and dual sports (archery, badminton, etc.); orientation; remedial work; riding; skating; swimming and life saving; tennis; team sports. The student receives one unit of credit each for Physical Education 1 and 2 (three periods), and one-half unit each for Physical Education 3 and 4 (two periods). When restricted work seems necessary, the student receives individual attention for four shorter periods per week.

11. FOLK GAMES AND DANCES, AND CREATIVE ACTIVITIES FOR KINDERGARTEN, FIRST AND SECOND GRADES. *Two periods. One credit.*

12. FOLK DANCES, GAMES, AND CREATIVE ACTIVITIES FOR INTERMEDIATE AND SECONDARY GRADES. (Identical with Education 12.) *Two credits. One period.*

21, 22, 23. TECHNIQUES FOR MAJORS AND MINORS. Practical work with sections of Physical Education 1 and 2. Two laboratories and one lecture. Three semesters. Acceptable toward graduation instead of Physical Education 1, 2, 3, 4 if a Physical Education Major gives evidence of ability to do advanced work. *One credit each semester.*

25, 26, 27, 28. ACTIVITIES. For those who wish to improve their skills in any activity offered. *One-half credit each semester.*

29. FIRST-AID AND HEALTH IN THE HOME, SCHOOL AND COMMUNITY (formerly 23).

A—FIRST-AID. A Red Cross certificate will be issued if the student's grade is C or better. *Two lectures and one laboratory. Six weeks. One credit.*

B—NUTRITION. To be given by a person especially trained in this field. Two lectures and one laboratory. *Six weeks. One credit.*

C—HEALTH IN THE HOME, SCHOOL AND COMMUNITY. *Two lectures and one laboratory. Six weeks. One credit.*

30. BASIC THEORY OF PHYSICAL EDUCATION. A history of physical education, with emphasis on current trends; also the contribution of physical education to related vocational fields,

such as recreation, physiotherapy, etc. *Two lectures. Two credits.*

31. MODERN DANCE. (Advanced). Modern dance, with emphasis on composition; also practical experience in production. *Prerequisite:* Intermediate Dance. *Two periods per week. One credit.*

35. KINESIOLOGY. Function of the neuromuscular system in its relation to posture, movement, and deviations from normal, with special reference to the back, the abdomen, and the feet. There will be opportunity to apply this knowledge to the needs of the child, his growth, development, and physical activities. *Prerequisite:* Zoology 11. *First semester. Two lectures and one laboratory. Three credits.*

40. RECREATION IN THE HOME, SCHOOL, AND COMMUNITY. The application of nature study, story telling, party games, and various crafts to leisure time activities for home, school, camp, and community. *Two laboratories. Two credits.* Fee $2.

50. HISTORY AND DEVELOPMENT OF THE DANCE. A study of dance forms of the past and present and their relationship to the other arts, especially music. *Three lectures. Three credits. Prerequisite:* Physical Education 31 and 34. (Formerly 53 and 54.)

57. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION. Objectives, methods, and general principles including, first, a discussion of the biological, physiological, psychological, and sociological principles underlying those objectives, and, second, a study of acceptable methods of administering a physical education program to achieve these objectives. (This course and Education 64B are identical.) *Prerequisite:* Physical Education 30. *Two lectures. Two credits.*

71. THEORY AND PRACTICE OF DIRECTING INDIVIDUAL AND DUAL SPORTS. Including methods of teaching and officiating. *Prerequisite:* Practical experience in tennis, archery, badminton, and swimming. *Three lectures. Three credits.* (Formerly 61.)

72. THEORY AND PRACTICE OF TEAM SPORTS. Including teaching methods, skill tests, and officiating of basketball, softball, volleyball, and field sports. *Prerequisite:* Practical experience in at least four team sports. *Three lectures. Three credits.* (Formerly 59–60.)

101. DANCE OF THE PEOPLE. A study of source material showing the contribution of many lands to the folk-dance movement in this country; special types of dances, such as the square dance of Americans, British, Scandinavians, Czechs, etc.; weaving dances;

"polite and social dances" of today and yesterday, here and abroad, etc. Native costumes will be studied, and whenever possible there will be a folk festival using local national groups. *First semester. Two to five credits.* (Formerly 13.)

102. PROBLEMS IN HEALTH AND PHYSICAL EDUCATION. Where work is done in the field of health education, the student must have had at least the equivalent of a minor in Zoology. *Two to five credits.*

RECREATIONAL ACTIVITIES. Any student may participate in activities sponsored by the Women's Recreation Association or in activity classes offered by the department that are not filled by students registered for University credit. Open to all who can pass a satisfactory medical examination.

PHYSICS

Professor LEIFSON (Chairman of Department; Associate Professor BLAIR; Mr. INMAN, Miss FERGUSON.

Requirements for a minor in physics: Physics 3–4 (8 credits), Physics 5–6 (4 credits), and 6 additional units in the department in courses numbered above 50.

Requirements for a major in physics: Physics 3–4 (8 credits), Physics 5–6 (4 credits), and 12 additional units in the department in courses numbered above 50. Other requirements: General chemistry, Calculus (to be taken concurrently with Physics 3–4), Mechanics, and German.

Requirement for a teacher's recommendation in physics: a major or a minor in the department.

1A–2A. GENERAL PHYSICS. A course in general physics primarily for students in arts and science, medicine and agriculture. Lectures and recitations with experimental demonstrations and problem work. No credit for either semester of this course will be given unless accompanied by the corresponding course in Physics 1b-2b. *Prerequisite:* Plane geometry. A knowledge of trigonometry is desirable. *Both semesters. Three credits each semester.* Mackay Science Hall. Blair.

1B–2B. GENERAL PHYSICS LABORATORY. A laboratory course to make the student an intelligent observer of natural phenomena. To accompany physics 1a-2a. Experimental work, largely quantitative in character and designed to illustrate fundamental physical principles and to develop skill and accuracy in the methods of physical measurement. No credit for either semester will be given unless accompanied by the corresponding course in physics 1a-2a. *Prerequisite:* Plane geometry. A knowledge of trigonometry is desirable. *Both semesters. One credit each semester.* Fee $3. Mackay Science Hall. Blair.

3–4. GENERAL PHYSICS FOR ENGINEERS. Mechanics, Heat, Sound, Light, Electricity, and Magnetism. Two lectures and

two recitations per week. *Prerequisites:* Trigonometry and Analytical Geometry. *Both semesters. Four credits each semester.* 321 Mackay Science Hall. Leifson.

5–6. PHYSICAL MEASUREMENTS. Experimental work of distinctly quantitative character in mechanics, heat, sound, light, electricity and magnetism. *Prerequisites:* Trigonometry and Analytical Geometry. *Both semesters. One or two credits per semester. Maximum of four credits for the course.* 127 Mackay Science Hall. Fee $1.50 per credit. Leifson.

7. *Descriptive Astronomy.* A brief course in astronomy designed to acquaint the student with the more important facts relating to the heavenly bodies. Descriptive rather than mathematical in character. By special arrangement, interested members of the class may become familiar with the use of the sextant and with the underlying principles involved in the determination of the location of the observer upon the surface of the earth. *Two scheduled periods and one evening hour to be arranged. Either semester. Three credits.* Mackay Science Hall. Blair.

9–10. INTRODUCTORY PHYSICS. A nonmathematical course dealing with the fundamental principles of physics. Practical applications will be emphasized, and lectures will be illustrated by numerous experiments and lantern slides. *No prerequisite. Two credits each semester.* Mackay Science Hall. Leifson.

15–16. *Elementary Radio.* The characteristics of electron tubes and their applications. The principles underlying radio receivers and transmitters. Liberally illustrated by laboratory demonstrations. *Prerequisite:* Two years of high school mathematics. *Both semesters. Three credits per semester.*

17–18. *Meteorology.* A brief presentation of the fundamental principles of weather observation, mapping and forecasting. This course will be found most helpful to men planning to enter any branch of aviation. Not only will the student be able to use more intelligently the information supplied to him by the meteorologist but to a considerable extent he will become his own forecaster, utilizing his knowledge of the probable consequences of local weather phenomena. The content of the course also affords a solid foundation for more advanced work in meteorology. The complex mathematical theory underlying modern meteorology is left for later consideration. *Either semester. Three credits.*

19–20. HOUSEHOLD PHYSICS. A course in general physics for students in home economics. The practical applications of physics in the home will be emphasized. *Prerequisite:* A thorough

knowledge of elementary algebra and plane geometry. *Both semesters. Lecture, recitation and quiz, two hours; laboratory, one period. Three credits each semester.* Fee $3. Mackay Science Hall. Blair.

51–52. PRACTICAL CALCULATION. Graphical methods of determining the relationship between physical quantities. The adjustment of graphs to increase the accuracy of computed results. Practice in the arrangement of logarithmic calculation so that the minimum amount of labor is involved in the solution of complicated equations. Differential correction of results. Interpolation and the use of interpolation formula. Computation of probable error, and estimation of accuracy of data and results. *Prerequisite:* Differential calculus. *Either semester. One credit. One three-hour computing period per week.* Mackay Science Hall. Blair.

57–58. ELECTRICAL MEASUREMENTS. Precise measurements of current electromotive force and power, with both alternating and direct current. Calibration of instruments, determination of resistance, capacity, mutual inductance, and self-inductance. Hysteresis. Photometry. Illumination. *Prerequisite:* General physics, differential and integral calculus. *Both semesters. Two credits each semester.* Fee $3. Mackay Science Hall. Leifson.

59–60. HEAT AND THERMODYNAMICS. Lectures and recitations accompanied by experimental work of a quantitative character. This course, together with physics 61–62, is introductory to mathematical physics. Many of the more difficult subjects merely touched upon in general physics will be fully treated. *Prerequisite:* General physics, differential and integral calculus. *Both semesters. Two credits each semester.* Mackay Science Hall.

61–62. LIGHT AND PHYSICAL OPTICS. Lectures: Experimental illustration of selected topics in light, including discussion of the corpuscular and wave theories of light, the restricted theory of relativity, lenses, mirrors and prisms, prism spectra, Doppler's principle and its applications, diffraction, interference, the theory of the grating, double refraction and polarization. *Prerequisite:* General physics, differential and integral calculus. *Both semesters. Two credits each semester.* Mackay Science Hall.

63. PHYSICAL OPTICS. Laboratory exercises in connection with course 61–62. *First semester. Two credits.* Fee $3. Mackay Science Hall. Blair and Leifson.

65–66. HISTORY OF PHYSICS. Lectures and recitations. Preparation of reports and discussion of assigned topics by members

of the class. *Prerequisite:* General physics. *Both semesters. Two credits each semester.* Mackay Science Hall.

68. SPECTROSCOPY. Theory and method of production, measurement, examination, and identification of spectra. Study and use of prism and grating spectrographs. *Prerequisites:* General Physics, General Chemistry, and Calculus. *One lecture and one laboratory period per week. Two credits.* Fee $5. 325 Mackay Science Hall. Leifson.

71–72. INTRODUCTION TO MODERN PHYSICS. Lectures and experimental illustrations. Discussion of important topics in the fields of radiation and the structure of atoms and molecules. Introduction to quantum mechanics. *Prerequisite: General physics. Two credits each semester.* Mackay Science Hall. Leifson.

73–74. ELECTRICITY AND MAGNETISM. Introduction to the mathematical theory of electricity and magnetism. Solution of problems by exact reasoning from fundamental principles. *Prerequisite:* General physics, differential and integral calculus. *Either semester. Two credits per semester.* Mackay Science Hall. Batdorf.

75–76. GLASSBLOWING. A laboratory course of instruction in methods of making simple glass apparatus. *Either semester. One credit.* Fee $6. Mackay Science Hall. Leifson.

77–78. THERMIONIC VACUUM TUBES. A laboratory course of selected problems involving the determination of constants of vacuum tubes and vacuum tube circuits. One hour each week will be devoted to discussion and reports. *Prerequisite:* Physics 3–4–5–6 (or the equivalent), differential and integral calculus. *Either semester. Two credits per semester.* Fee $3. Mackay Science Hall. Leifson.

101–102. THEORETICAL PHYSICS. An introduction to the more advanced mathematical analysis as applied to general physical problems. *Prerequisite:* Physics 53–54, 55–56, 57–58, and 59–60, differential and integral calculus and differential equations. *Both semesters. Two credits each semester.* Mackay Science Hall.

103–104. THESIS WORK, and all special laboratory work not in the courses announced above. *Both semesters. Credits to be arranged.* Mackay Science Hall. Staff.

POLITICAL SCIENCE

(See History and Political Science)

POULTRY HUSBANDRY

(See Animal Husbandry)

Psychology

Professors Young (Chairman of Department), Irwin; Mrs. Wright.

Requirements for a minor in psychology: Psychology 5 (3 credits), 10 (2 credits), 51 (3 credits), 62 (3 credits), and 7 additional credits in the department.

Requirements for a major in psychology: Psychology 5 (3 credits), Psychology 14 (2 credits), Psychology 51 (3 credits), Psychology 55 (3 credits), Psychology 59 (2 credits), Psychology 60 (2 credits), Psychology 62 (3 credits), Psychology 63 (2 credits), plus 7 hours, 3 of which shall be in courses numbered above 50.

Recommended elective courses: Mathematics 20 (Elementary Statistics), Philosophy 1 (Introduction to Philosophy), Philosophy 8 (Inductive Logis), Sociology 2 (Social Problems).

2. Human Nature. A freshman course in personal and social efficiency, emphasizing the most practical principles of elementary social psychology. Topics included are psychological factors in effective study, the hereditary and environmental sources of individual capacities, attitudes, and other traits, the measurement of personality traits and aptitudes, techniques in influencing people, etc. *No prerequisite. Either semester. Two credits.* Irwin.

5. General Psychology. An introductory course dealing with forms and laws of human behavior and consciousness. Open to freshmen who have passed with a satisfactory grade, a high school course in general psychology, or who rank in the highest fifth in their mental test score. Prerequisite to all other courses in the department, except Psychology 2. *Either semester. Three credits.* Young, Irwin.

6. Elementary Educational Psychology. A consideration of the applications of psychology to educational problems. *Prerequisite:* Psychology 5. *Second semester. Three credits.* Irwin.

10. Psychology of Adolescence. An intensive study of the characteristics dominant in the adolescent, with special emphasis upon applications to the work of the high school teacher. *Prerequisite:* Psychology 5. *Second semester. Two credits.* Young.

14. Applied Psychology. A general course in the applications of psychology: Psychology of vocational guidance, personal efficiency, scientific management, social work, propaganda and public opinion, law, medicine, athletics, business, art. *Prerequisite:* Psychology 5. *Second semester. Alternate years, starting 1942–1943. Two credits.* Irwin.

40. Mental Hygiene. A consideration of the principles of

psychology in their relationship to mental health and efficiency. *Prerequisite:* Psychology 5. *Second semester. Three credits.* Young.

51. SOCIAL PSYCHOLOGY. A study of the applications of psychology to the social relations of the individual and the group life of society: Interaction of individual and social factors in the formation of personality, leadership, propaganda, audiences, communities, nations, crowds, amusements, personality problems, etc. *Prerequisite:* Psychology 5. *First semester. Three credits.* Irwin.

52. PSYCHOLOGY OF PROPAGANDA AND PUBLIC OPINION. This is a socio-psychological study of (1) the psychological bases of public opinion, (2) the techniques of leadership, (3) the forces which mould public opinion and the channels through which it is expressed, and (4) quantitative techniques in the measurement of attitudes and the effects of publicity campaigns. *Prerequisite:* Psychology 5. *Second semester. Two credits.* Irwin.

53. PSYCHOLOGY OF PERSONALITY. A consideration of the nature, development and evaluation of personality. *First semester. Two credits.* Young.

55. ABNORMAL PSYCHOLOGY. A study of the abnormal mind in its relation to behavior. The theory of the unconscious mind, sleep, dreams, hypnotism, and obsessions are major topics in the course. *Prerequisite:* Psychology 5. *First semester. Three credits.* Young.

57. PSYCHOLOGY OF ADVERTISING. An intensive study of the psychological principles basic to effective advertising. Emphasis will be placed on techniques of experimental investigation useful to advertisers in solving problems on the job for which psychology does not provide ready-made answers. *Prerequisite:* Psychology 5. *First semester. Alternate years, starting 1942–1943. Two credits.* Irwin.

59. MENTAL, PERSONALITY, AND VOCATIONAL APTITUDE TESTS. Lectures, practice, readings. Description, demonstration, and training in the construction, use, and interpretation of standard tests. Special attention will be given to test uses for school purposes, industrial and personnel practice, clinical diagnosis, vocational guidance, social service work, etc. *First semeseter. Alternate years, starting 1942–1943. Two credits.* Irwin.

60. COMPARATIVE PSYCHOLOGY. The genetic history of consciousness in animals, savages and civilized human beings. *Prerequisite:* Psychology 5. *Second semester. Two credits.*

61. BUSINESS PSYCHOLOGY. Discussions, readings, and practical assignments on the mental laws basic to effective buying, selling, advertising, and management of men. Salesmanship will be emphasized. *Prerequisite:* Psychology 5. *First semester, alternate years, starting 1943–1944. Two credits.* Irwin.

62. EXPERIMENTAL PSYCHOLOGY. A laboratory course in the application of scientific methods to the study of mental processes. Lectures, assigned readings, and laboratory. *Prerequisite:* Psychology 5. *Either semester. Three credits.* Young.

63. SYSTEMATIC PSYCHOLOGY. A study of the historical background of psychology and of the various schools of psychological thought. *Prerequisite:* Psychology 5. *First semester. Two credits.* Young.

64. THE PSYCHOLOGY OF PERSONNEL. Applications of psychology to public and private personnel administration, including (1) selection, merit-rating and in-service training, (2) supervision, leadership, incentives and industrial conflict, (3) fatigue, accident prevention and conditions of work, and (4) the emotional and social adjustment of the employee. *Prerequisite:* Psychology 5. *Second semester. Two credits. Alternate years, starting 1495–1946.* Irwin.

65. CRIMINAL AND LEGAL PSYCHOLOGY. The individual and social factors of crime and legal relationships, with special emphasis on juvenile delinquency. Problems of the lawyer, educator, and social worker are considered. A study is made of criminal personality and the nature, development, prevention, detection, and treatment of crime and the criminal. Field trips will be taken. *Prerequisite:* Psychology 5. *First semester. Alternate years, starting 1943–1944. Two credits.* Irwin.

70. MARRIAGE, HOMEMAKING, AND DIVORCE. A presentation of the psychological principles involved in these three types of social adjustment. Open to juniors, seniors and graduates who have had general psychology. *Second semester. Two credits.* Young.

101–102. RESEARCH IN PSYCHOLOGY. The thesis subject may be chosen from any field of psychology in which the student has had at least one advanced course. For graduate students and seniors. *Either semester. Two credits.* Staff.

SOCIOLOGY

(See Economics, Business, and Sociology)

SPANISH

(See Foreign Languages)

Speech

(See English)

Zoology

(See Biology)

SUMMER SESSIONS OF UNIVERSITY

FIRST TERM
June 9 through July 16, 1947

SECOND TERM
July 19 through August 27, 1947

OPPORTUNITY AND PURPOSE

The Summer Sessions are an integral part of the University of Nevada organization. The same high standards prevail as in the regular session; equivalent work carries equivalent credit and the same high quality of teaching personnel is maintained.

One of the primary purposes of the Summer Sessions is to meet the needs of teachers who wish to spend a part of the summer vacation in serious study or investigation. The Summer Sessions afford unusual opportunity to increase teaching skill, to improve teaching personality, to obtain help with individual classroom problems, to acquire new cultural and recreational interests, and to become better informed concerning current and social problems.

Of almost equal importance is the opportunity given by the Summer Sessions to students desiring to accelerate their programs. Moreover, some students find it advantageous to attend summer school to gain a desired classification or to study a particular subject not offered in the regular sessions.

Specific courses are designed for high school teachers, elementary teachers, and teachers of departmental work. All courses offered in either of the Summer Sessions may be applied for advancement toward a normal school diploma, a bachelor's or master's degree, and toward certification by the Nevada State Board of Education. A bulletin describing the faculty, the curriculum, and the facilities available during the summer may be obtained by addressing the Director of Summer Sessions.

ADMISSION AND CREDITS

Anyone with ability to do scholastic work on the University level may be admitted to the Summer Sessions. However, credit toward any University degree or diploma will be granted only after the student has met all requirements for admission to the University.

The Committee on Admission and Advanced Standing has ruled that any student with the recommendation of his high school principal may be admitted to the Summer Sessions of the University with thirteen high school units.

Usually the student may enroll for a maximum of six credit hours of work in either of the Six-Week Sessions; however, a student making a grade of B in at least four hours of work during the first session may enroll for a maximum of seven hours during the second session. The number of credits allowed for each course is determined on the basis that fifteen University lecture periods of fifty minutes each, together with two hours of out-of-class preparation for each class, earn one hour of credit.

A maximum of thirteen credits may be earned by attendance in the Summer Sessions. Any student desiring to take advantage of this accelerated program must enroll on June 12 for the entire twelve-week period of summer school. Also, such additional hours must have the approval of the Director of Summer Sessions.

Out-of-State Teachers

Teachers from other States may fulfill requirements to validate certificates to teach in Nevada schools by attending either or both the Summer Sessions. Out-of-State teachers are required to pass State examinations in, or to receive University credit for, School Law and Organization and the Constitutions of the United States and of Nevada. Teachers from other States must meet the requirement in Nevada Constitution should they already have credit in United States Constitution. All of these courses are offered in the Summer Sessions.

Teacher Replacement

Teachers are eligible for teacher placement service after twelve weeks of summer school attendance at the University of Nevada.

The policy of the appointment director has always been to consider the welfare of the children of the State paramount to the interests of prospective teachers. Consequently, recommendations for teaching positions are confined largely to those whose achievement, ability, and character are known. The appointment office will, however, be instrumental in bringing competent teachers and school officers into contact.

The fee for enrollment in the appointment service is $2.50. For this fee, five sets of credentials are prepared, to be sent to school authorities. If additional credentials are required, a fee of $1.50 will be charged for each set of five. No commission is charged on the appointee's salary.

Summer Session Fees

The fee for each of the six-week sessions is $20. In addition the ordinary laboratory fee will be charged those students enrolling for courses requiring laboratory classes. A deposit of $10 will be assessed each student. This deposit is refunded in full at the close of the session if no charge is made against it.

Public Services

The Nevada Agricultural Experiment Station

Staff

John O. Moseley, M.A., LL.D., President of the University.
Charles H. Gorman, Honorary M.S., LL.D., Vice President and Comptroller.
Charles E. Fleming, B.S.A., Director of Agricultural Experiment Station and Chief of Range Management.
Agnes L. Schmith, Administrative Secretary and Librarian.
Gloria Ghiglieri, Assistant Librarian.
Mark A. Shipley, B.S., Associate in Range Management.
Walter Neilson, Assistant in Range Management.
Chester A. Brennen, B.A., Economist in Range Management.
Grant H. Smith, Jr.,[1] B.S., Assistant Economist in Range Management.
Edward Records, V.M.D., In Charge of Veterinary Science.
Lyman R. Vawter, D.V.M., M.S., Associate in Veterinary Science.
M. R. Miller, M.S., Chemist.
V. E. Spencer, M.S., Associate in Soils Research.
George Hardman, M.S., Chief in Irrigation and Agronomy.
Howard G. Mason, B.S., Assistant in Estimating and Land Use Planning.
F. B. Headley, Chief in Farm Development.
J. E. Church, Ph.D., Chief in Station Meteorology.
Carl Elges, Jr.,[1] M.S., Assistant in Meteorolgy.
Winifred Moore, Clerk in Meteorology.

Under provisions of the Hatch Act, approved March 2, 1887, the Agricultural Experiment Station was organized in December of that year. From the Hatch Fund the Experiment Station receives $15,000 annually, from the Adams Fund, created by the Adams Act of 1906, it receives a like amount, and from the Purnell Fund, created by the Purnell Act, approved February 25, 1925, it receives $60,000 annually. In addition, for the fiscal year 1940–1941 it received $2,460.64 from the Federal Bankhead-Jones Fund. The total of these Federal appropriations for the current fiscal year will be $92,460.64. None of these funds can be applied to teaching or to the work of agricultural extension, because the object of all these funds is the investigation by scientific methods of problems in the agricultural industry.

[1]Absent on leave.

The Nevada Experiment Station has chosen problems for study in five fields:

I. The problems of the most effective use of a limited water supply in crop production.

II. The problems of animal disease in the livestock industry of the State.

III. The problems arising from the depleted condition of Nevada ranges for sheep and cattle.

IV. The problems of small farm development in Nevada.

V. Economic problems in the Nevada cattle industry.

For 1944–1945 the active project list of the Station is as follows:

RANGE MANAGEMENT—

Project 22—Bankhead-Jones Fund. *Bronco Grass.* 1936-Continuous. Project Leader, C. E. Fleming, assisted by Departments of Veterinary Science, Chemistry, and Soils. In cooperation with U. S. Forest Service and U. S. Grazing Service.

Project 24—Hatch Fund. *Methods of Producing More and Better Lambs in Nevada Range Flocks.* 1919–Continuous. Project Leader, C. E. Fleming, assisted by Walter Neilson. In cooperation with Bureau of Animal Industry, U. S. D. A., and the U. S. Sheep Experiment Station and Western Sheep Breeding Laboratory.

Project 26—Hatch Fund. *Feeding and Finishing Range Ewes and Lambs.* 1920–Continuous. Project Leader, C. E. Fleming, assisted by Walter Neilson. In cooperation with Bureau of Plant Industry, U. S. D. A., Newlands Field Station, Fallon, Nevada.

Project 31—Purnell Fund. *Studies of the Economics of Cattle and Sheep Production Under Nevada Ranch and Range Conditions.* 1939–Continuous. Project Leader, C. A. Brennen, assisted by C. E. Fleming and Grant H. Smith. In cooperation with Bureau of Agricultural Economics and other Bureaus of U. S. D. A., and U. S. Grazing Service.

Project 45—Purnell Fund. *Development of a Rotation Paddock System of Grazing on Irrigated Meadows by Range Flocks of Sheep.* Reno, 1920–Continuous; Elko, 1934–Continuous. Project Leader, C. E. Fleming, assisted by C. A. Brennen.

Project 22—Bankhead-Jones Fund. *Annual Brome Grasses as Invaders of Sheep and Cattle Ranges in Nevada.* 1936–Continuous. Project Leader, C. E. Fleming, assisted by Departments of Veterinary Science, Chemistry, and Soils. In cooperation with U. S. Forest Service and U. S. Grazing Service.

Range Plant Inventory and Range Forage Improvement Studies. 1937–Continuous. Project Leader, C. E. Fleming, assisted by C. A. Brennen and Grant H. Smith. In cooperation with the U. S. Forest Service.

Project 55—Station Sales Fund. *Weed Control by Plant Competition.* 1937–Continuous. Project Leader, C. E. Fleming, assisted by C. A. Brennen. In cooperation with the Nevada Agricultural Extension Service and the Bureau of Plant Industry, U. S. D. A., Newlands Field Station, Fallon, Nevada.

Project 60—Purnell Fund. *Forage Acre Allowances.* 1940–Continuous. Project Leader, C. E. Fleming, assisted by Mark A Shipley, C. A. Brennen, and M. R. Miller. In cooperation with U. S. Grazing Service.

METEOROLOGY—

Project 57—Purnell Fund. *Snow Surveying and Runoff Forecasting, Development and Applications.* 1940–Continuous. Project Leader, J. E. Church, assisted by Carl Elges. In cooperation with Soil Conservation Service, U. S. D. A.

CHEMISTRY—

Project 58—Purnell Fund. *Quality of Irrigation Waters of Nevada.* 1940–Continuous. Project Leader, M. R. Miller. In cooperation with Bureau of Plant Industry, U. S. D. A., and Rubidoux Laboratory, Riverside, California.

Project 59—Adams Fund. *Chemical Composition of Nevada Range Plants and Forage Crops.* 1940–Continuous. Project Leader, M. R. Miller, assisted by Departments of Range Management, Farm Development, and Veterinary Science. In cooperation with the U. S. Grazing Service.

IRRIGATION—

Project 50—Purnell Fund. *An Inventory and History of the Water Resources of the Truckee, Carson, and Humboldt Rivers, and Minor River Basins.* 1934–Continuous. Project Leader, George Hardman. In cooperation with Soil Conservation Service and Bureau of Agricultural Economics, U. S. D. A.

FARM DEVELOPMENT—

Project 30—Purnell Fund. *Farm Accounts and Land Utilization.* 1941–Continuous. Project Leader, F. B. Headley. In cooperation with the Nevada Agricultural Extension Service.

Project 32A—Purnell Fund. *Carrying Capacity of Pasture Grasses and Pasture Mixtures on the Newlands Field Station.* 1946-Continuous. Project Leader, F. B. Headley, assisted by F. M. Willhite and M. R. Miller. In cooperation with Newlands Field Station, Fallon, Nevada.

Project 32B—Purnell Fund. *Comparison of the Biological Feeding Values of Alfalfa Hay and Concentrate Mixtures.* 1946-Continuous. Project Leader, F. B. Headley, assisted by F. M. Willhite and M. R. Miller. In cooperation with Newlands Field Station, Fallon, Nevada.

Project 32—Purnell Fund. *A Test of the Economic Efficiency of Alfalfa Hay as a Sole Ration for Dairy Cattle and Its Relation to Sterility.* 1925–Continuous. Project Leader, F. B. Headley. In cooperation with Bureau of Plant Industry, U. S. D. A., Newlands Field Station, Fallon, Nevada.

Project 41—Hatch Fund. *Hog Feeding Experiments.* 1930–Continuous. Project Leader, F. B. Headley. In cooperation with Bureau of Plant Industry, U. S. D. A., Newlands Field Station, Fallon, Nevada.

Project 42—Purnell Fund. *Turkey Feeding Experiments.* 1933–Continuous. Project Leader, F. B. Headley. In cooperation with Bureau of Plant Industry, U. S. D. A., Newlands Field Station, Fallon, Nevada.

Project 61—Purnell Fund. *Comparison of Feeding Value of Early and Late Cut Meadow Hay for Wintering Beef Cattle.* 1942-Continuous. Project Leader, F. B. Headley, assisted by F. M. Willhite. In cooperation with Division of Western Irrigation Agriculture, U. S. D. A., Newlands Field Station, Fallon, Nevada.

VETERINARY SCIENCE—

Project 63—Adams Fund. *Artificial Cultivation of Anaplasma Marginale.* 1944-continuous. Project Leader, Dr. Edward Records, assisted by Dr. L. R. Vawter.

Project 64—Adams Fund. *Immunization Against Liver Fluke Infestation.* 1946-Continuous. Project Leader, Dr. Edward Records, assisted by Dr. L. R. Vawter and C. E. Fleming.

Project 65—Adams Fund. *Accessory Food Substance Deficiencies.* 1946-Continuous. Project Leader, Dr. Edward Records, assisted by Dr. L. R. Vawter and M. R. Miller.

SOIL FERTILITY—

Project 66—Purnell Fund. *Effect of Fertilizer Treatment on the Yield and Chemical Composition of Small Grains and Legumes Grown on the Light-Textured Soils of the Carson Valley.* 1946-Continuous.. Project Leader, V. E. Spencer.

ESTIMATING AND PLANNING—

Project 62—Purnell Fund. *Estimating and Planning of Agricultural Production in Nevada.* 1943 – Continuous. Project Leader, H. G. Mason, assisted by F. M. Willhite and F. B. Headley. In cooperation with U. S. Bureau of Agricultural Economics and U. S. D. A.

NEVADA AGRICULTURAL EXTENSION DIVISION

COOPERATING PARTIES

The President and the Board of Regents of the University of Nevada.

The Extension Service of the United States Department of Agriculture.

The State and County Farm Bureaus.

STAFF

JOHN O. MOSELEY, M.A., LL.D., President of the University.

CHARLES H. GORMAN, Honorary M.S., LL.D., Vice President and Comptroller.

CECIL W. CREEL, Agr.D., Director of Agricultural Extension, Dean of Agriculture.

THOMAS E. BUCKMAN, M.S., Assistant Director for County Agent Work.
MARGARET M. GRIFFIN, B.S., Assistant Director for Home Demonstration Work.
PAUL L. MALONEY, B.S., Assistant Director for Junior Extension Work.
CLARENCE E. BYRD, M.A., Administrative Assistant to the Dean of Agriculture.
MARIE WATKINS, Chief Clerk.
L. E. CLINE, M.S., Extension Marketing Specialist.
VERNER E. SCOTT, M.S., Extension Agricultural Economist.
OTTO R. SCHULZ, B.S., Extension Soil Conservationist and Supervisor Emergency Farm Labor Program.
WILLIAM S. HAYES. B.S., Extension Forester.
W. A. GOODALE, B.S., Assistant State Supervisor Emergency Farm Labor Program.
A. L. HIGGINBOTHAM, A.M., Extension Editor.
ARCHIE R. ALBRIGHT, B.S., County Extension Agent, Washoe County.
LEONARD ANKER, B.S., Asssistant County Extension Agent, Washoe County.
FRED BATCHELDER, B.S., County Extension Agent, Pershing County.
MADGE ELDER, B.S., County Extension Agent, Lyon County.
LOUIE A. GARDELLA, B.S., County Extension Agent, Lyon County.
H. LEE HANSEN, B.S., District Extension Agent, Douglas and Ormsby Counties.
LENA HAUKE, B.S., County Extension Agent, Churchill County.
M. GERTRUDE HAYES, B.S., County Extension Agent, Washoe County.
WILLIAM N. HELPHENSTINE, B.S., District Extension Agent, White Pine and Eureka Counties.
JAMES G. JENSEN, B.S., Assistant District Extension Agent, Churchill and South Lander Counties.
KEITH T. MADDY, D.V.M., Extension Veterinarian, Clark County.
OLIVE C. MCCRACKEN, B.S., District Extension Agent, Douglas, Ormsby, and Storey Counties.
MARK W. MENKE, B.S., County Extension Agent, Elko County.
AXEL T. OLSEN, B.S., District Extension Agent, Humboldt and North Lander Counties.
RAY K. PETERSEN, M.S., County Extension Agent, Clark County.
A. J. REED,[1] B.S., County Extension Agent, Pershing County.
E. C. REED,[1] M.S., County Extension Agent, Washoe County.
ROSE M. SPEZIA, B.S., District Extension Agent, Humboldt, Pershing, and North Lander Counties.
ELWYN TRIGERO, B.S., District Extension Agent, Humboldt and North Lander Counties.
J. W. WILSON, B.S., District Extension Agent, Elko and North Eureka Counties.
J. H. WITTWER, County Extension Agent, Clark and Lincoln Counties.
CHARLES R. YORK, B.S., County Extension Agent, Churchill County.
J. HAZEL ZIMMERMAN, B.S., District Extension Agent, Clark and Lincoln Counties.

Cooperative extension work in agriculture and home economics is conducted in Nevada under the provisions of the following Acts of Congress: The Smith-Lever Act, approved May 8, 1914; the Capper-Ketcham Act, approved May 22, 1928; the Bankhead-Jones Act, approved June 29, 1935; the Bankhead-Flannagan Act, June 1945.

The Agricultural Extension Division as established under the

[1]Absent on leave.

Memorandum of Understanding with the United States Department of Agriculture dated September 8, 1914, is a "definite and distinct administrative division" of the University of Nevada, coordinate in rank and affiliation with the College of Agriculture and the Agricultural Experiment Station. All the extension activities of the College of Agriculture and the United States Department of Agriculture in Nevada are conducted through this division.

The nature of the work is defined in general terms by law as "the giving of instruction and practical demonstrations in agriculture and home economics to persons not attending or resident in said colleges in the several communities, and imparting to such persons information on said subjects through field demonstrations, publications and otherwise." Instructions and demonstrations are given to rural people in both adult and junior organized groups through the County Farm Bureau Community Centers, and Boys and Girls 4-H Clubs.

Besides the regular extension program outlined above, the Agricultural Extension Division is also charged with administering in Nevada the Federal Emergency Farm Labor Program. Extension Agents serve as executive secretaries of County Agricultural Conservation committees.

County Farm Bureau Community Centers serve as a forum where farm men and farm women together find a solution for many of their problems by cooperating with Agricultural Extension Service.

Extension work is outlined in written projects and budgets entered into by the cooperating parties. Major projects are range livestock, dairying, poultry, crops, home improvement, human nutrition, and rural organization.

The organization for extension work in Nevada comprises an administrative and specialist staff, resident at the University, and twenty-one county and district agents. Thirteen Nevada counties have organized farm bureaus pursuant to Acts of the Legislature, approved April 1, 1919, and March 4, 1921.

All extension work in these counties is conducted in cooperation with the County Farm Bureaus.

The State Analytical Laboratory

STAFF

John O. Moseley, M.A., LL.D., President of the University.
Charles H. Gorman, Honorary M.S., LL.D., Vice President and Comptroller.
Walter S. Palmer, E.M., Director.
William I. Smyth, E.M., Chemist.
Vincent P. Gianella, Ph.D., Geologist.

The State Analytical Laboratory was organized at the University of Nevada in 1895 under the provisions of an Act approved on March 16 of that year. Its object is to assist the mining industry of Nevada by making free analyses of minerals and ores taken from within the boundaries of Nevada by its citizens, and by reporting to the senders the results of such analyses, together with the uses and market values of the substances submitted.

The routine work of the laboratory is done by the director and chemist, with the geologist and mineralogist assisting with the unusual rocks and minerals.

Samples and specimens are listed and distributed in the order in which they are received at the laboratory, and are analyzed essentially in this order, but reports do not go out in the same order since some assays take much longer than others. The results obtained by analysis are given upon the reports for all substances.

The records of the laboratory are open to inspection, but visitors will not be permitted to see copies of reports until sufficient time has elapsed for the original reports to reach the hands of the senders.

The State Bureau of Mines

STAFF

John O. Moseley, M.A., LL.D., President of the University.
Charles H. Gorman, Honorary M.S., LL.D., Vice President and Comptroller.
Jay A. Carpenter, E.M., Director.
Harry E. Wheeler, Ph.D., Geologist.
Fred L. Humphrey, Mining Engineer.
B. F. Couch,[1] Secretary.

The Bureau of Mines of the State of Nevada was established by the Legislature of 1929. The Act lodges the supervision of the Bureau with the Board of Regents of the University of Nevada. Under this Act it is the duty of the Board of Regents to select a Director and, upon the Director's nomination, such assistants and employees as necessary and to fix the compensation of these employees. The Staff are part time only with temporary employment for others and with the State Analytical Laboratory Staff often rendering valuable aid. The purposes of this Bureau are to conduct a mineralogical survey of the State to catalogue both metallic and nonmetallic deposits, with addresses of the discoverer, owner or agent; to serve as a bureau of information and exchange in Nevada mining; to collect and publish statistics relative to Nevada mining; to prepare a bibliography of literature pertaining to Nevada mining and geology; and other various activities.

[1]Absent on leave.

Departments of Food and Drugs, Weights and Measures, and Petroleum Products Inspection

(Sierra and Fifth Streets, Reno)

STAFF

John O. Moseley, M.A., LL.D., President of the University.
Charles H. Gorman, Honorary M.S., LL.D., Vice President and Comptroller.
Wayne B. Adams, B.S., Commissioner.
Edward L. Randall, M.S., Chemist.
Victor Cokefair, Inspector.
Darrell Lemaire, Laboratory Assistant.
Lee Cobb, Inspector.
A. J. Rafael, Resident Inspector, Las Vegas.
Juanita L. Holmes, Clerk.

These three departments were created by separate specific Acts of the State Legislature. Since the enforcement of each of these laws has been delegated to the Commissioner of Food and Drugs, they have been consolidated under one department. The consolidation has proved to be of considerable benefit, because the laboratory control necessary in carrying out the provisions of these laws can be used to a great extent by the three departments, and because much of the work and many of the duties overlap.

An entirely new Food, Drugs and Cosmetic Law was enacted in 1939. As this law is patterned very closely after the Federal Law of the same title, there is little conflict in the provisions of the two laws. Products manufactured and sold within the State, subject to the approval of this department, can be sold interstate where the provisions of the Federal Act apply, or vice versa. Essentially this law prohibits the manufacture or sale of misbranded or adulterated food, drugs, and cosmetics. This includes commodities which constitute a danger to health, as well as an economic fraud. The laboratory of the department is completely equipped to examine practically all types of food, drugs, and cosmetics.

Under the provisions of the State Weights and Measures Act the department is required to keep a complete set of reference standards of weight, volume, and linear measure. The standards are calibrated for accuracy at intervals of not less than ten years by the Bureau of Standards in Washington. Field-testing equipment is calibrated against the office standards and is used in checking all weighing or measuring devices, regardless of type, throughout the State. Citizens of the State are privileged to submit measuring devices of any description for calibration with the office standards. Commodities sold by weight, measure, or

numerical count are periodically checked by the Department for compliance with their declared weights.

To the Petroleum Products Inspection Department is delegated the duty of enforcing the State specifications and standards for gasoline and lubricating oils. Specifications for gasoline are incorporated in the law. Such standards insure that a product sold as gasoline is entirely suitable for internal combustion engines and is not a petroleum product of less volatile nature, such as kerosene, stove oil, or distillate. Lubricating oil must be of the same grade as advertised on the dispensing container.

In addition to the duties described above, prescribed by law, this department is pleased at any time to investigate cases in which the products involved constitute a public health menace or an economic fraud.

The State Veterinary Control Service

STAFF

John O. Moseley, M.A., LL.D., President of the University.
Charles H. Gorman, Honorary M.S., LL.D., Vice President and Comptroller.
Edward Records, V.M.D., Director.
Agnes Hilden, B.S., Technician.
Violet A. Oshima, Secretary.

The State Veterinary Control Service was organized during 1915, under the provisions of an Act of the Legislature approved March 11, 1915. The primary object of this department is to provide facilities for the routine diagnosis of communicable diseases of domesticated animals in the laboratory and the field. Minor research into the nature, cause, and means of control of such diseases is also carried on. Special sera and vaccines, which cannot be procured in the open market, are also prepared and supplied when needed. From time to time bulletins, circulars, and press releases dealing with the communicable diseases of domesticated animals and the most modern means of controlling the same are prepared and distributed. This is intended to supplement the more elaborate research projects of the Department of Veterinary Science of the Agricultural Experiment Station and to aid in the field work conducted by the State Department of Agriculture, the State Board of Sheep Commissioners, and the United States Bureau of Animal Industry.

The services of the staff are available to the veterinarians, livestock owners and ranchers of the State in connection with any problem coming within the scope of the work of this department.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF MINES

MINING BRANCH

The Mining Branch conducts engineering examinations of mineral deposits, explores and sample deposits, and studies new mining and milling methods. The Branch conducts experimental work on methods of exploration and mining, investigates the mining possibilities of individual districts as they relate to the minerals industry, and demonstrates the most effective methods for extracting previously unused ores. Operations are controlled through divisional field offices.

RENO DIVISION

STAFF

A. C. JOHNSON, Chief.
RUSSELL R. TRENGOVE, Mining Engineer.
WILLMAR T. BENSON, Mining Engineer.
EDWARD J. MATSON, Mining Engineer.
ROBERT W. GEEHAN, Mining Engineer.
EUGENE O. BINYON, Mining Engineer.
WM. H. KERNS, Mining Engineer.
MRS. DOROTHY C. TEASS, Secretarial Clerk.
MRS. GEORGIA E. HOOPER, Clerk.

Field Office, 507 Custom House, San Francisco, California.

STAFF

SPAGLER RICKER, Supervising Engineer.
F. J. WIEBET, Mining Engineer.
C. L. SEVERY, Mining Engineer.
D. W. BUTNER, Mining Engineer.
MRS. NORMA W. MAYHALL, Clerk-Stenographer.

METALLURGICAL BRANCH, RARE AND PRECIOUS METALS EXPERIMENT STATION

The Legislature of Nevada passed an Act in March 1919, providing funds to house an experiment station of the United States Bureau of Mines at the University of Nevada. The building was completed in July 1921, and at once fully equipped as the Rare and Precious Metals Experiment Station.

The Metallurgical Branch conducts fundamental and applied research on the conservation, preparation, and utilization of metals and nonmetals, develops new metallurgical methods dealing with beneficiation processes, new techniques, and special equipment, and analyzes and tests ore samples. Operations are controlled through divisional field offices.

STAFF

ANDREW C. RICE, Ph.D., Acting Supervising Engineer.
CLYDE E. ARRINGTON, M.S., Analyst.
CARLTON G. COFFIN, B.S., (M.E.), Chemist.
CHARLES L. HILL, M.S., Chemist.
HOWARD L. HEINAN, Chemist
JOHN M. BOYLAN, Chemical Analyst.
WALTER R. VREELAND, Chemical Analyst.
RAYMOND S. LAMBERT, Chemical Analyst.
EDWARD S. SHEDD, M.S., Metallurgist.
A. L. ENGEL, Metallurgist.
THOMAS A. JACKSON, Metallurgist.
WILLIAM A. CONLEY, Laboratory Mechanic.
HARRY F. MCCRAY, Chief Clerk.
THERESA V. CAPRIO, Clerk

United States Geological Survey, Geophysical Section,
C. H. SANDBERG, *Geophysicist in Charge.*

Record For 1946-1947

Recipients of Scholarships and Honors

1945–1946

The Jewett W. Adams Scholarships of $100 each

Virginia Cole	Kathryn Sterling
Lora Jean Drown	Henry Stewart
Esther Detweiller	Walter G. Case
Winona Earl	Franklin K. Gardner
Rosalie Enke	Jeanne Forson Creed
Wilburta Flavin	Nora Saunders
Lois Hitchens	William D. Fugitt
Jean Matcovich	Patricia Ireland

Edward Diercks

The Armanko Office Supply Scholarships. An award of $100 each

in Chemistry.....Shirley Campbell
in Physics.....Elizabeth June Tracy

The Associated Women Students' Scholarship of $25

Bonny Molignoni

The Josephine Beam Scholarships of $250 to Reno or Sparks students; $400 to a student not residing in Reno or Sparks:

Norma Jean Carruth	Rita Mortara
Patricia Ann Fee	James L. Morrow

Lois M. Shaver

The Horace P. Boardman Scholarship in Civil Engineering

Leland Eckley

The Reno Business and Professional Women's Club Scholarship. An award of $50

Virginia Cole (in social work)

The Azro E. Cheney Scholarship in English. An award of $60 each

Jeanne Forson Creed Nona Lee Tuttle

The Daughters of the American Revolution Scholarship. An award of $50

Zina Coe

The Thomas E. Dixon Scholarship

Melvin Windsor

The MAJOR MAX C. FLEISHMANN SCHOLARSHIPS. An award of $200 each to Reno or Sparks students; $400 to those whose homes are not in this vicinity.

Howard Campbell	Wm. I. Lane
Estella Hicks	Tosca Masini
Donald Johnson	Genevieve Swick
Leonard Katz	James Teipner
Eileen Kerr	Nona Lee Tuttle

The MAJOR MAX C. FLEISCHMANN SCHOLARSHIPS for entering freshmen. $250 to Reno or Sparks students; $400 to a student whose home is not in this vicinity.

Moray J. Black	Fay E. Fryberger
Mildred Jane Chapman	Alvin C. McCuistion

The GOODWIN SCHOLARSHIP in music. An award of $50

Marion Gotberg

The GRAND ARMY OF THE REPUBLIC SCHOLARSHIP. An award of $50

Doris Hanssen

The HERD AND SHORT SCHOLARSHIP. An award of $100

John W. Phillips

The CARRIE BROOKS LAYMAN MEMORIAL SCHOLARSHIP. An award of $200

Pauline Leveille

The WILLIAM S. LUNSFORD SCHOLARSHIP in Journalism. An award of $100

Adele Marsh

The HONORABLE WM. O'HARA MARTIN AND LOUISE STADTMULLER MARTIN SCHOLARSHIPS in History and Political Science.

Pauline Leveille

The ROSE SIGLER MATHEWS SCHOLARSHIPS. An award of $75 each

Robert Morrison	Dorothy Hooper
Betty Holmes	Marrium Taylor
Helen Brania	Josephine Eather

The NEVADA FEDERATION OF MUSIC SCHOLARSHIP. An award of $50

Mary Gerrans

The EMPORIUM OF MUSIC SCHOLARSHIP. An award of $100

Mary Libbey

The GRAND LODGE OF THE INDEPENDENT ORDER OF ODD FELLOWS SCHOLARSHIP. An award of $150

Beverly Birch

The PREMEDICAL-PRENURSING SCHOLARSHIP. An award of $100

Henry Stewart

The NEVADA STATE PRESS SCHOLARSHIP in Journalism. An award of $100

Carl Digino	Richard Armstrong

The NEVADA REBEKAH ASSEMBLY SCHOLARSHIP. An award of $40

Wilburta Flavin

The REGENTS' SCHOLARSHIPS. An award of $50

Virginia Cole — Patricia Ireland
Wilburta Flavin — Adele Marsh
Bonnie Yturbide

The ROTARY CLUB OF RENO SCHOLARSHIP. An award of $100

Joseph Cooper

The SEMENZA SCHOLARSHIP in Economics, Business, and Sociology. An award of $100

Betty Waugh

The MARY ELIZABETH TALBOT MEMORIAL SCHOLARSHIP. An award of $300

Elizabeth June Tracy

The RITA HOPE WINER MEMORIAL SCHOLARSHIP. An award of $50

Rachel McNeill

An award of $25 in Home Economics by an anonymous donor

Blanche Parker

SPECIAL PRIZES AND AWARDS

The HENRY ALBERT SENIOR PUBLIC SERVICE PRIZES. An award of $25 each

Gordon C. Mills — Valerie Scheeline

The AMERICAN ASSOCIATION OF UNIVERSITY WOMEN MEMBERSHIPS

Mary Ancho — Frances Burke

The FOREIGN LANGUAGE PRIZES. An award of $50 each

Frances Cook — Mary Watts Moore
May Shinall

The GINSBURG JEWELRY COMPANY. An award of a fine watch

Henry Stewart

The GOVERNOR'S MEDAL for proficiency in military training

Albert Vernon Kinner

The HERZ GOLD MEDAL AWARD

Patricia Traner

The ARTHUR E. ORVIS PRIZE for an investment plan. An award of $100

Galen deLongchamps

Elected to PHI KAPPA PHI, National Honor Scholastic Fraternity

Seniors

Robert Bruce Bowen — Adele Marsh
Marilou Ferguson — Rose Nannini
Wilburta Flavin — Virginia L. Olesen
Alice M. Hanssen — Evelyn Aileen Payne
James W. Teipner

HONOR ROLL OF THE SENIOR CLASS

Mary Ancho
Frances Cook
Kathleen Kinneberg
Mary Watts Moore
Patricia Traner
Joseph Weihe

HONOR ROLL FOR THE FOUR-YEAR COURSE

Mary Ancho
Frances Cook
Charlotte Ferris
Kathleen Kinneberg
Mary Watts Moore
Patricia Traner
Ethel Crouch Wright

GRADUATES

Diplomas and Degrees were awarded on Commencement Day, June 10, 1946. as follows:

MASTER OF ARTS

William Therrel Holt, Jr.

MASTER OF SCIENCE

R. Keith Zeigler

BACHELOR OF ARTS

†*Mary D. Ancho
Isabel Wilson Blythe
Kathleen Hamilton Blythe
Peggy Jane Boyle
Elizabeth Mason Butterworth
Jeanne Lillian Chartier
(Jan. 31, 1946)
William Franklin Cochran
†Frances Ann Cook
Maribeth Elkins
Shirley Jacqueline Bowen Fleming
Claude William Friel
Rosemary A. Harrington
(Aug. 24, 1945)
*Georgianna Hicks
Emily Robinson Hilliard
Kathleen Meeks Jensen
(Jan. 31, 1946)
June Conser Jones
†Kathleen Kinneberg
(Jan. 31, 1946)
‡Vivian Cobia Martinson
Dorothy May Mason
Robert Edward McDonough
Margie Nelle McQuerry
Gwendolyn Miller
(Jan. 31, 1946)
Helen L. Morton
(Aug. 24, 1945)
Beth Petersen
Jacqueline Prescott
Leo John Puccinelli
George Stone Ross
*Valerie Agnes Scheeline
Donald Inch Segerstrom
Florence Shakarian
May Luella Shinall
Herbert Ray Smith
*Gloria Ladd Springer
‡Patricia Marie Traner
Bobby Jo Sanford Walker
Irene Dudley Wankier
(Jan. 31, 1946)
Dennis Maurya Wogan
†Ethel Crouch Wright
Bonnie Aurelia Yater
(Jan. 31, 1946)

* Receives also Teacher's Diploma of High School Grade.
† Has been elected to Phi Kappa Phi.
‡ Receives also Teacher's Diploma of Grammar Grade.

BACHELOR OF SCIENCE

John Orville Beatty (Aug. 24, 1945)
Charles Dean Dukes (Jan. 31, 1946)
†*Charlotte Ferris
Paul Gibbons (Aug. 24, 1945)
Wilbur Grant Hedquist
Morris Richard Jeppson (Jan. 31, 1946)
Vincent S. Keele
Edward M. Monroe
†*Mary Elizabeth Watts Moore
Lawson Hobart Sullivan
Delmar James Taylor
*Joseph William Weihe
Michael Stephen Zoradi (Aug. 24, 1945)

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

Genevieve Katherine Siri

BACHELOR OF SCIENCE IN CHEMISTRY

Jane Marie McCuistion
†Gordon Candee Mills

BACHELOR OF SCIENCE IN AGRICULTURE

Jack Cliff (Jan. 31, 1946)
Robert Russell Craig, Jr.
J. Kirk Day
Wilton B. Fryer
James S. Trail
Clayson Wright Trigero

BACHELOR OF SCIENCE IN HOME ECONOMICS

*Frances Helen Burke
Elizabeth Louise Kirkley
*Maie Anabel Nygren
Myrl Adeline Nygren
Blanche Helen Parker

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

William Jennings Wright

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Robert George Towle (Jan. 31, 1946)

BACHELOR OF SCIENCE IN MINING ENGINEERING

Charles Lee Crow
Starr McW. Hill, Jr.
Warren Lee Parks (Jan. 31, 1946)
Harry James Trollope (Jan. 31, 1946)

NORMAL SCHOOL DIPLOMA

Jessie Mildred Buchanan (Aug. 24, 1945)
Lujean Hansen (Aug. 24, 1945)

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* Receives also Teacher's Diploma of High School Grade.
† Has been elected to Phi Kappa Phi.

ROSTER OF STUDENTS

Fall and Spring Semesters

1946–1947

Explanations of Abbreviations

A&S.....Arts and Science
Ag.....College of Agriculture
CE.....School of Civil Engineering
EE.....School of Electrical Engineering
HE.....School of Home Economics
ME.....School of Mechanical Engineering
MM.....Mackay School of Mines

Fr.....Freshman
So.....Sophomore
Jr.....Junior
Sr.....Senior
Gr.....Graduate
Sp.....Special

Name	College	Classification	Home Address
Aalde, Kaare	MM	So.	Sparks
Albalos, Virginia Sarah	A&S	Fr.	Montello
Abbey, Shirley	A&S	Fr.	Sparks
Abercrombie, Elaine	A&S	Fr.	Boulder City
Abernathy, Frances	A&S	Fr.	Ruth
Adams, Herman Milo	A&S	Fr.	Bunkerville
Adams, Warren Howard	A&S	So.	Arnold, Nebraska
Adams, William	CE	Jr.	Santa Rosa, Calif.
Affleck, Harold W.	A&S	Fr.	Boise, Idaho
Aiazzi, Raymond G.	A&S	Fr.	Carlin
Aiken, James Wilson, Jr.	A&S	Fr.	Reno
Aldrich, Catherine May	A&S	Jr.	Fernley
Allard, Thomas F.	A&S	Jr.	Carson City
Allen, Robert Rapha	A&S	Fr.	Reno
Alles, Arthur August	MM	Sr.	Fallon
Allum, Mary Alta	A&S	So.	Yerington
Aloy, Leonard	A&S	Fr.	Chicago, Illinois
Amkraut, Sidney	ME	Jr.	Reno
Amodei, Marilyn Delphine	A&S	Sr.	Reno
Andersen, William Clive	ME	Jr.	Overton
Anderson, Bruce W.	A&S	Jr.	Placerville, Calif.
Anderson, Carol Ruth	A&S	Jr.	Sparks
Anderson, Chester James	A&S	Fr.	Ogden, Utah
Anderson, Donna	A&S	Sr.	Reno
Anderson, Eugene Neil	A&S	Fr.	Elko
Anderson, Howard Edward	A&S	Fr.	St. Paul, Minn.
Anderson, Roland A.	ME	Fr.	Reno
Andreini, Ronald Paul	A&S	Fr.	Sparks
Andrews, James V.	A&S	So.	Reno
Antoniazzi, Fred James	A&S	Fr.	Tonopah
Apa, Frank E.	EE	Sr.	Reno
Arak, Harry	MM	Fr.	West Hollywood, Cal
Arant, Philip Walker	A&S	Fr.	Reno
Arant, William Ballard	A&S	Fr.	Reno
Arbonies, Harvey Fermin	A&S	Fr.	Tungsten
Arentz, Alice Catherine	CE	Fr.	Reno
Argabright, William Keith	A&S	Fr.	Alturas, Calif.
Armstrong, Richard Dudley	A&S	Sr.	Reno
Armstrong, Ruth Mae	HE	Sr.	Reno

Name	College	Classification	Home Address
Arneson, David Andrew	CE	Fr.	Oakland, Calif.
Arnold, Binney Ella	A&S	So.	Reno
Arratebel, Gene	A&S	Fr.	Reno
Ashby, Verla	A&S	So.	Sparks
Askey, Josephine Marie	A&S	Fr.	Fernley
Ast, Robert William	A&S	Sr.	Winnemucca
Asta, Vincent J.	A&S	So.	Sacramento, Calif.
Atkins, John T.	MM	Fr.	Needles, Calif.
Atkinson, James Russell	A&S	Fr.	Reno
Atkinson, William D., Jr.	A&S	Fr.	Reno
Auchampaugh, Virginia Agnes	A&S	Jr.	Reno
Audrian, Ardis Fitch	A&S	So.	Reno
Audrian, Charleen Ellen	A&S	Fr.	Reno
Audrian, Dawna Lee	A&S	Fr.	Reno
Audrain, Thornton L.	A&S	So.	Reno
Averett, Walter Reed	A&S	So.	Caliente
Aymar, John B.	A&S	Sr.	Reno
Babb, Patricia	A&S	So.	Fallon
Bacigalupi, Frank Jack, Jr.	A&S	Jr.	Reno
Backus, Norman Lloyd	A&S	Sp.	Sparks
Bagley, Donald G.	Ag.	Sr.	Reno
Bailey, Rachel Genevieve	A&S	So.	Eureka
Bailey, Robert William	A&S	Fr.	Reno
Baker, Douglas	MM	So.	Boulder City
Baker, Hale L.	A&S	Fr.	Grass Valley, Calif.
Baker, Herbert Curtis	A&S	So.	Yerington
Baker, John Raymond	A&S	So.	Yerington
Baker, Julia Verna	A&S	So.	Winnemucca
Baker, Phyllis Claudia	A&S	So.	Sacramento, Calif.
Baker, Richard	A&S	Jr.	Mina
Bandoni, Robert Joseph	EE	Fr.	Babbitt
Bangle, Violet Sylvia	A&S	So.	Westwood, Calif.
Banta, Benjamin Harrison	A&S	Fr.	Reno
Banta, Clifford William	A&S	So.	Leevining, Calif.
Banta, Roger Wade	A&S	Fr.	Bishop, Calif.
Barakat, Ruth Louise	A&S	So.	W. Philadelphia, Pa.
Barbagelata, Alfred Anthony	A&S	So.	Reno
Barbash, Roger	A&S	Fr.	Reno
Barbieri, Aurelio Alfred	A&S	Fr.	Reno
Barker, Ronald Thomas	EE	Sp.	Reno
Barkley, James Robert	MM	So.	Fallon
Barrett, Juanita Leona	A&S	Fr.	Reno
Barrett, Lewis Selwin	A&S	So.	Las Vegas
Barrett, Robert Emmett	A&S	Fr.	Reno
Barrios, Alberto H.	MM	So.	Reno
Barsanti, Elio Alfred	A&S	Fr.	Tonopah
Barta, James Joseph	A&S	Fr.	East Chicago, Ind.
Barto, Helen Ramona	A&S	Sp.	Elmore, Minn.
Barto, Robert	A&S	Sp.	Clearwater, Fla.
Bartsas, Tessie	A&S	Sp.	Ely
Bass, William	A&S	Fr.	Elizabeth, Pa.
Bastian, Jarvis Rulon	A&S	Fr.	Reno

Name	College	Classification	Home Address
Batey, Thomas Allen	A&S	Fr.	Sullivan, Ind.
Batjer, Grace N.	A&S	Jr.	Smith
Batt, Frances Mae	A&S	Fr.	Carlin
Baumann, William Henry	MM	Fr.	Niagara Falls, N. Y.
Bay, Robert John	A&S	Fr.	Reno
Beaman, George B.	CE	Fr.	Yerington
Beardall, Royden, Jr.	A&S	So.	Sparks
Beasley, Winfield Scott	A&S	Fr.	Sullivan, Ind.
Beaupeurt, Edward Francis	A&S	Sr.	Reno
Beck, Irene Margaret	A&S	Jr.	Newcastle, Calif.
Bedel, Walter Jacob	CE	Sr.	Visalia, Calif.
Beebe, Sara Elizabeth	A&S	So.	Herlong, Calif.
Beetschen, Shirley M.	A&S	Fr.	Reno
Beko, William Peter	A&S	Sr.	Tonopah
Belew, William Morris	A&S	So.	Sparks
Bell, Arthur James	A&S	Fr.	East McKeesport, Pa.
Bell, Donald Cecil	MM	So.	Reno
Bell, Enfield Benton	MM	Fr.	Elko
Bell, Joan Helen	A&S	Fr.	Reno
Bell, Shirley Jeanne	A&S	Fr.	Las Vegas
Bell, Thomas Graham	A&S	Fr.	Henderson
Belnap, Bruce Earl	EE	Fr.	Sparks
Bena, Dolores Beverly	A&S	Fr.	Elko
Benbow, Bonnie Rae		Gr.	Las Vegas
Benbow, Jules Coleman	EE	Fr.	Las Vegas
Bender, Betty Lou	HE	Fr.	Las Vegas
Benedict, Altheo Belle	HE	So.	Babbitt
Benedict, Carl	A&S	Fr.	San Francisco, Calif.
Bengochea, Harry P.	A&S	Fr.	Winnemucca
Bennett, George Donald	A&S	Fr.	Tonopah
Benson, George Howard	A&S	Fr.	McGill
Benson, Gerald D.	MM	Fr.	Sparks
Benz, Elizabeth Clark	A&S	So.	Los Angeles, Calif.
Berardo, Francis	A&S	Fr.	Waterbury, Conn.
Bergendorf, Ann	A&S	Fr.	Oakland, Calif.
Bergeron, Beverly Claire	A&S	Fr.	Long Beach, Calif.
Bergevin, Louis	ME	Fr.	Babbitt
Bernard, Carl Franklin	A&S	So.	Ridgecrest, Calif.
Bernard, Jack B.	A&S	Fr.	Yerington
Bernard, Lowell Collins	A&S	Jr.	Carson City
Berning, Duane Eugene	CE	Fr.	Carson City
Berrueta, John J., Jr.	A&S	Fr.	Elko
Berry, Henry Kingsbury	A&S	Fr.	Reno
Berry, Barnes Joseph	A&S	So.	Reno
Bevans, Douglas Orville	ME	Jr.	San Francisco, Calif.
Beyer, John Alfred, Jr.	A&S	So.	Reno
Bianchi, Marino William	A&S	Fr.	Fallon
Bidart, Alice Elizabeth	A&S	Fr.	Winnemucca
Bieroth, Marjorie Agnes	A&S	So.	Mountain City
Biglieri, Clyde	A&S	Fr.	Reno
Biglieri, Eve	A&S	So.	Reno
Bingham, Vernon Lee	A&S	Fr.	Las Vegas

Name	College	Classification	Home Address
Birch, Beverly Jane	A&S	So.	Reno
Birdsall, Wallace Oliver	ME	So.	Reno
Bisbee, John Allen	EE	Fr.	Las Vegas
Bishop, Peggy Lou	A&S	Fr.	Reno
Bissett, Richard Joseph	EE	Fr.	Reno
Black, Berkeley Warburton	A&S	Jr.	Reno
Black, Lorne	A&S	Fr.	Reno
Black, Moray Joan	A&S	Fr.	Reno
Blackham, Thomas Jack	EE	Fr.	McGill
Blair, Edgar Wayne	CE	Jr.	Boulder City
Blair, Molly	HE	So.	Portland, Oregon
Boaze, Maxine K.	A&S	Sp.	Seattle, Wash.
Bockmon, Robert Morley	A&S	Fr.	Long Beach, Calif.
Boettcher, Jerome Ward	MM	Fr.	Vallejo, Calif.
Boggess, Betty Sue	A&S	So.	Hawthorne
Boies, Eyer Horace	Ag	Fr.	Wells
Boland, Monty		Gr.	Reno
Bolander, James Stanard	A&S	Fr.	Sparks
Bondurant, Robert Thomas	A&S	Fr.	Ely
Boner, Helen Louise	A&S	So.	Los Angeles, Calif.
Bony, Beverly Nora	A&S	Sr.	Reno
Bony, Harry Franklyn	A&S	Sr.	Reno
Booth, Lucy	A&S	So.	Gardnerville
Booth, Marian Simmons	A&S	Jr.	Las Vegas
Booth, Norman Valentine	EE	Fr.	Cadiz, Ohio
Borge, James D.	A&S	Jr.	Yerington
Bosler, Edward John	EE	Fr.	Reno
Bowden, Gene	A&S	Fr.	Herlong, Calif.
Bowden, William George, Jr.	A&S	Fr.	Las Vegas
Bowers, Ronald Eugene	A&S	Fr.	Canton, Ohio
Bowers, Millard Roland	A&S	So.	Fallon
Bowers, Roy Franklin	A&S	Fr.	Reno
Bowser, Janet	A&S	Fr.	Fallon
Boyer, Gordon Norris	CE	So.	San Francisco, Calif.
Boyle, Kathryn Elizabeth	A&S	Jr.	Reno
Boyles, Lois May	HE	Fr.	Milwaukee, Wis.
Boynton, John Wesley	ME	Fr.	Winnemucca
Brackett, William Leonadis	A&S	Fr.	Reno
Bradford, Edward Wayne	A&S	So.	Reno
Bradley, John Grover	A&S	Jr.	Reno
Bradley, Kenneth Harold	A&S	So.	Sparks
Bradley, Mary Alice	A&S	So.	Reno
Bradley, William Orlando	A&S	Jr.	Reno
Bradshaw, Betty	HE	So.	Elgin
Bradshaw, Charles Kenneth		Gr.	Reno
Bradshaw, James Halbert	A&S	So.	Reno
Brady, Bernard P.	ME	Jr.	Richmond Hgts., Mo.
Brady, Maurice Hugh	MM	Fr.	Baker, Ore.
Braito, Frederick	A&S	Fr.	Reno
Brambila, Mildred H.	A&S	Fr.	Richmond, Va.
Brambila, Robert Mauro, Jr.	A&S	Jr.	Reno
Brander, Roger Wayne	A&S	So.	Hawthorne

Name	College	Classification	Home Address
Brania, Helen	A&S	Sr.	Reno
Braun, George	A&S	Sp.	Reno
Braun, Katherine	A&S	Sp.	Reno
Bray, Mark Stanley, Jr.	A&S	Fr.	Gardnerville
Breese, Charles Reagan	ME	Jr.	Reno
Brennan, Carolyn Jean	A&S	Fr.	Loomis, Calif.
Brennan, Kathryn Ann	A&S	So.	Loomis, Calif.
Brennen, Alyn Boice	A&S	Fr.	Elko
Bright, James	A&S	Fr.	Bishop, Calif.
Brigman, Dorothy Irene	A&S	Fr.	Reno
Brinkerhoff, William Albert	A&S	So.	Sparks
Brinsmead, Robert H.	EE	Fr.	Reno
Broadbent, Robert	A&S	So.	Ely
Broadbent, Susan	A&S	Fr.	Ely
Brooks, Dudley Wilder	EE	So.	Columbus, Ohio
Brown, Betty Jean	A&S	Fr.	Reno
Brown, Beverly Ellen	A&S	Jr.	Los Angeles, Calif.
Brown, Carlos Bell	A&S	Fr.	Reno
Brown, Charley Walter	A&S	So.	Reno
Brown, Eleanor Frances	A&S	So.	Reno
Brown, Elizabeth	A&S	Fr.	Oakland, Calif.
Brown, Jack Lee	A&S	So.	Salt Lake City, Utah
Brown, Jerry	A&S	Jr.	Reno
Brown, John Webster	CE	Fr.	Reno
Brown, Justin Joseph	A&S	So.	Rochester, N. Y.
Brown, Leland A.	EE	Fr.	Reno
Brown, Meryde Grace	HE	So.	Winnemucca
Brown, Nannette	A&S	Fr.	Reno
Brown, Orvin V.	A&S	So.	Richmond, Calif.
Brown, Stanley Howard	A&S	So.	Reno
Brown, Vance	EE	Fr.	Boulder City
Brown, Wallace Edwin	EE	Fr.	Sparks
Brownwell, Henry A.	ME	Fr.	Reno
Brozo, John Kingsley	A&S	Sr.	Reno
Bruce, Irene	A&S	Fr.	Reno
Bruch, Harter Ross	CE	So.	Sacramento, Calif.
Brueckner, Guenther W.	A&S	Fr.	Reno
Brundy, Richard James	A&S	Fr.	Las Vegas,
Brunner, Alberta Jean	A&S	Jr.	Winnemucca
Brunton, George Delbert	MM	Fr.	McGill
Brush, William Parshall	A&S	Fr.	Carson City
Brussard, Evelyn		Gr.	Reno
Bryant, Robert S.	CE	So.	Los Angeles, Calif.
Buck, William Ellory	A&S	So.	Boulder City
Bull, Portia	A&S	So.	Reno
Bull, Samuel T.	A&S	So.	Reno
Burhans, Barbara June	A&S	So.	Winnemucca
Burke, Charles Alexander	Ag	Jr.	Reno
Burke, Everett Ashton	A&S	Sp.	Reno
Burkhalter, Patricia Louise	A&S	Jr.	Reno
Burkholder, Constance Dione	A&S	Fr.	Henderson
Burr, Elizabeth Marie	A&S	So.	Las Vegas

Name	College	Classification	Home Address
Busey, William A.	MM	Jr.	Reno
Butler, Robert William	MM	So.	Santa Maria, Calif.
Butler, Roberta Eleanor	A&S	So.	Santa Maria, Calif.
Butler, Zalia Joy	A&S	Fr.	Reno
Butterfield, Barton Alden	Ag	Fr.	Reno
Butts, George Wesley	A&S	Sp.	Selma, Ala.
Byrd, Clarence Edward		Gr.	Reno
Byrd, Gwenneth Jeanne	A&S	Fr.	Reno
Bywater, David George	EE	Fr.	Boulder City
Cade, Fred L.	CE	Fr.	Richmond, Calif.
Cafferata, Russell William	A&S	Sp.	Reno
Cain, Darrell	A&S	So.	Reno
Caldwell, John	MM	Fr.	San Mateo, Calif.
Calkin, Annabelle Louise	A&S	Fr.	Sparks
Callahan, Evelyn Marguerite	A&S	So.	Reno
Callahan, Mary Ellen	A&S	Fr.	Reno
Calvert, Robert Wood	A&S	Fr.	Reno
Calwell, Glenn	A&S	Fr.	Portland, Ore.
Cammerano, Augustine	A&S	Sp.	Garfield, N. J.
Campbell, Edgar Richard	EE	Fr.	Reno
Campbell, Robert Elton	A&S	Jr.	Taft, Calif.
Campbell, Robert Rall	A&S	Fr.	Los Angeles, Calif.
Campbell, Rosa Elizabeth	A&S	So.	Mountain City
Campbell, Shirley Marolyn	A&S	Sr.	Fernley
Canady, Alta June	A&S	Sr.	Sparks
Canessa, William	CE	Jr.	Sparks
Canfield, Lois E.	A&S	Fr.	Wahpeton, Maryland
Cann, George Rodney	A&S	Fr.	Reno
Cantlon, John Edward	A&S	Sr.	Sparks
Caprio, Josephine Rose	A&S	Fr.	Reno
Caprio, Theresa M.	A&S	So.	Reno
Capurro, Kathleen June	A&S	Fr.	Reno
Carlin, Raymond Eugene	ME	Fr.	New Castle, Pa.
Carlon, Kenneth Eugene	A&S	So.	Hollywood, Calif.
Carlsen, Charles R.	CE	So.	Reno
Carmichael, Patricia Ann	A&S	So.	Las Vegas
Carner, Maryann	A&S	Fr.	Las Vegas
Carns, Elizabeth	A&S	Fr.	Du Bois, Pa.
Carolo, Steno John	A&S	Fr.	Reno
Carr, Edwin Clarence	Ag	Fr.	Fallon
Carr, Elizabeth Arlyne	A&S	Sr.	Sonepa, N. Y.
Carrick, Robert Warren	A&S	Fr.	East Ely
Carriger, Warren Eugene	A&S	Fr.	Chueubusco, Ind.
Carruth, Norma Jean	A&S	Fr.	Las Vegas
Carter, Bnernice F.	A&S	Sp.	Reno
Carter, Donald Leslie	CE	Fr.	Elko
Carter, John Henry	A&S	Fr.	Perry, Iowa
Carville, Robert T.	ME	Fr.	Reno
Casazza, Alice Renee	A&S	Fr.	Reno
Casazza, Ralph A.	CE	Fr.	Reno
Case, Walter George	A&S	Jr.	Winnemucca
Caserta, Giovanni A.	A&S	So.	Reno

Name	College	Classification	Home Address
Casey, Calvin Kimble	A&S	Fr.	Reno
Casey, Virginia June	A&S	So.	Los Angeles
Casia, Lorenzo C.	MM	Jr.	Philippine Islands
Casia, Melanio C.	MM	Jr.	Reno
Casto, Lynn Dalton		Gr.	Corona, Calif.
Catich, Jack George		Gr.	Reno
Cayton, Edith Lucille	A&S	Fr.	Janesville, Calif.
Ceccarelli, John	A&S	So.	Sacramento, Calif.
Ceccarelli, Raymond Leo	A&S	Sr.	Sparks
Cedarholm, Joseph	EE	Fr.	Sacramento, Calif.
Chaffee, Owen R.	A&S	Sp.	Vallejo, Calif.
Chamberlin, John Leslie	MM	Fr.	Los Angeles, Calif.
Chambers, Robert William	MM	Fr.	Bakersfield, Calif.
Chambers, Vivian Gloria	A&S	So.	Watsonville, Calif.
Chapman, Caroline Elizabeth	A&S	Fr.	Sparks
Chapman, Loring	A&S	Fr.	Reno
Chapman, Mildred Jane	A&S	Fr.	Reno
Charles, William B.	MM	Fr.	W. Los Angeles, Calif
Charlesworth, Lois Mae	A&S	Fr.	Sacramento, Calif.
Charlton, Earle Perry II	A&S	Fr.	Reno
Chavez, Benjamin Joseph	CE	Fr.	Midland, Calif.
Checchi, Albert Louis, Jr.	A&S	So.	Sparks
Chesnut, Earl William	A&S	So.	Portage, Pa.
Chester, James Edward	EE	So.	Linden, N. J.
Chiara, Herbert	A&S	Sr.	Battle Mountain
Chickese, Ernest Maurice	A&S	Sr.	Reno
Childers, Robert Harold	Ag	Fr.	Fallon
Childs, Robert B.	A&S	So.	Palo Alto, Calif.
Chipman, Glen H.	CE	Sp.	American Fork, Utah
Choy, John	MM	So.	San Francisco, Calif.
Christensen, Glen Claire	A&S	So.	Reno
Christensen, Ingvart, Jr.	CE	Fr.	Reno
Christensen, Roland	CE	Fr.	Reno
Chuffi, Anthony Domenic	A&S	Sp.	Pittsburgh, Pa.
Churchill, Florence Ethel	A&S	Fr.	Reno
Ciari, Harold Roy	EE	Jr.	Sparks
Clark, George Leonard	A&S	Sr.	Carlin
Clark, Kenneth Marlow	MM	Fr.	Grass Valley, Calif.
Clark, Madona Lee	A&S	Fr.	Ruth
Clarkson, James Thomas	CE	So.	E. Rutherford, N. J.
Clawson, Jean Mary	A&S	Jr.	Elko
Clay, Gerald Laverne	A&S	Fr.	Virginia City
Clemens, Thomas Ford	MM	So.	Sacramento, Calif.
Clements, Lloyd William	CE	Jr.	Reno
Cliff, Joyce Alice	A&S	Fr.	Franktown
Clifford, Thomas	A&S	Fr.	Reno
Clinton, Mary Elizabeth	HE	So.	Elko
Coates, Anita Christinia	A&S	Fr.	Sparks
Cobia, Lois	A&S	Jr.	Loyalton, Calif.
Coe, Charles Frederick	ME	Jr.	Burlingame, Calif.
Coe, Zina Ellen	A&S	Jr.	Boulder City
Cole, Georgia		Gr.	Reno

Name	College	Classification	Home Address
Cole, Virginia	A&S	Jr.	Ely
Coleman, James Weatherby	A&S	Sr.	Reno
Coleman, Morris Reynolds	ME	So.	Reno
Coli, Burno	A&S	Fr.	Verdi
Collings, David	EE	Fr.	Los Angeles, Calif.
Collins, Benjamin J.	MM	So.	San Fernando, Calif.
Collins, Chester F.	MM	So.	San Mateo, Calif.
Collins, Jack C.	A&S	Sr.	Sparks
Collins, James R.	Ag.	Sr.	Bishop, Calif.
Collins, Thomas W.	A&S	Fr.	Bishop, Calif.
Colon, Richard W.	ME	So.	Avenal, Calif.
Colovich, Donald	A&S	Fr.	Reno
Conaway, Geneve Lila	A&S	Fr.	Caliente
Conelly, Frederick Emmet	A&S	Fr.	Hawthorne
Conley, Leslie John, Jr.	MM	Fr.	Rivera, Calif.
Constantinidou, Angeline	A&S	Sp.	Athens, Greece
Cook, Ruth Fay	A&S	So.	Oroville, Calif.
Cook, Woodrow Wilson	A&S	Fr.	Man, W. Va.
Cooney, Donald G.	A&S	Fr.	Reno
Cooper, Herman Joseph	A&S	So.	Lynchburg, Va.
Corbett, Neal Harvey	A&S	Fr.	Ely
Corbett, Roger, Jr.	A&S	So.	Reno
Cordes, Alice Maire	A&S	Fr.	Genoa
Corey, James John	A&S	Fr.	Pensacola, Fla.
Cormier, Claude J.	A&S	Fr.	Reno
Cottrell, Frederick James	A&S	Sp.	Reno
Coughlin, Robert John	EE	Fr.	Reno
Coughlin, Walter E.	EE	Fr.	Reno
Cowles, Robert Irving	A&S	Fr.	Reno
Cox, Don Knowlton	A&S	Jr.	Los Angeles, Calif.
Coyan, Betty Lou	A&S	Fr.	Markleeville, Calif.
Cram, Roland L.	CE	Fr.	Las Vegas
Crandall, Patricia	A&S	Fr.	Las Vegas
Creed, Jeanne Forson	A&S	Jr.	Reno
Creed, Lyle Kim	A&S	Jr.	Berkeley, Calif.
Crescenzo. Frank G.	CE	So.	Carson City
Creveling, Robert L.	A&S	So.	Reno
Crew, Noble Lynn	EE	Fr.	Reno
Crider, John Franklin	CE	Fr.	Reno
Crocker, Lenley	A&S	Fr.	Reno
Cross, Charles Burton, Jr.	A&S	Sp.	Tahoe City, Calif.
Cross, William Thomas	A&S	Fr.	Fallon
Crummer, Patricia Ellen	HE	So.	Reno
Cudinski, Anthony J.	A&S	Jr.	Reno
Cullen, Raymond A.	A&S	Fr.	Reno
Culley, Barbara Joan	A&S	Fr.	Forest Hills, N. Y.
Cundiff, George Milton	ME	So.	Harahan, La.
Cundiff, Robert Louis	EE	Fr.	Reno
Cunha, George	A&S	Fr.	Hawthorne
Cunniffe, Thomas	A&S	Sp.	Woodside, N. Y.
Cunningham, George	A&S	Fr.	Sparks
Curless, Everett W.	A&S	Fr.	Elsinore, Calif.

Name	College	Classification	Home Address
Cusick, Kenneth	A&S	So.	Reno
Cusick, Owen J.	ME	So.	Reno
Cutter, Carol	A&S	Fr.	Oakland, Calif.
Cutter, Patricia Margaret	A&S	Fr.	Oakland, Calif.
Da Costa, Janet	A&S	So.	Reno
Dale, Harold D., Jr.	A&S	So.	Manhattan Bch., Cal.
Dalton, Ruth M.	A&S	Fr.	Reno
Damkroger, Donald Albert	MM	So.	Walluku, Maui, T. H.
Damron, Louise Marie	A&S	Jr.	Ruth
Damron, Lucille	A&S	Fr.	Ruth
Dana, Robert Putnam	Ag	Fr.	Pleasanton, Calif.
Daniels, Fillmore Watt	A&S	Sp.	Las Vegas
D'Antonio, Louis J.		Gr.	Reno
Darang, Andres		Gr.	Reno
Darney, Lois	A&S	Fr.	Reno
Darney, Ronald Blaine	ME	Fr.	Reno
Darringrand, Odette Marie	A&S	Jr.	Battle Mountain
Davey, Pauline	A&S	Sp.	Reno
Davidson, Donald E.	CE	Fr.	Coachella, Calif.
Davidson, June	A&S	Fr.	Elko
Davis, Grant	A&S	So.	Carson City
Davis, James Howard	ME	Fr.	Boulder City
Davis, Gerald Lee	A&S	Fr.	Placerville, Calif.
Davis, Joseph Schlecht	EE	Fr.	Boulder City
Davis, Vivian	A&S	Jr.	Las Vegas
Dawson, Donald Ray	EE	Sp.	Las Vegas
Dearing, Lide	A&S	Fr.	Las Vegas
DeChambeau, Kent L.	A&S	Fr.	Inglewood, Calif.
DeLanoy, Drake	A&S	Fr.	Reno
DeLauer, Leland Keith	A&S	Fr.	Oakland, Calif.
Delmue, Dorothy Lou	A&S	So.	Pioche
deLongchamps, Galen Edward	MM	Sr.	Reno
deLongchamps, Joanne	A&S	So.	Hollywood, Calif.
Deming, Don Dorlon	A&S	Fr.	Reno
DeNevi, Angela C.		Gr.	Reno
Denton, Lola Denise	A&S	Fr.	Caliente
Denton, Mary Agnes	A&S	Sp.	Sparks
Denton, Nixon Edward	A&S	So.	Bridgeport, Calif.
Deputy, Everett Earl	A&S	Fr.	Fallon
DeRicco, Elmo Joseph	CE	Sr.	Ely
Dericco, Elmo LeRoy	A&S	Fr.	Lovelock
DeRushia, Emery J.	A&S	Jr.	McCloud, Calif.
Desiderio, Fred L.	A&S	So.	Reno
Devlin, William Richard	A&S	Fr.	Las Vegas
DeVore, Maurice C.	CE	Fr.	Alturas, Calif.
DeWees, Wayne	CE	Fr.	Bishop, Calif.
Dickerson, Belford Clay	A&S	So.	Reno
Dickerson, Meryl Ellen	A&S	Jr.	Yerington
Diehl, Jack Fraser	ME	Fr.	Reno
Diehl, John William	A&S	Sr.	Winnemucca
Diercks, Edward V.	EE	So.	Glen Ridge, N. J.
DiFraia, Dominic A.	MM	Fr.	Somerville, Mass.

Name	College	Classification	Home Address
Digino, Carl Albert, Jr.	A&S	Sr.	Reno
Dini, Joseph Edward	EE	Fr.	Yerington
DiPietro, Augustine M.	A&S	Fr.	Lynn, Mass.
D'La Rosa, Querida	A&S	Sp.	Reno
Dobyns, Olive Pearl	A&S	Fr.	Yerington
Dodd, John Raymond	A&S	Sp.	Reno
Dodds, Douglas David	EE	Fr.	Las Vegas
Dodge, Max Weston	A&S	Sr.	Seattle, Wash.
Dohn, Dorris Jo	A&S	So.	Reno
Dolan, Murray Vincent	A&S	Fr.	Sparks
Dolan, William M.	A&S	Fr.	Carson City
Domonoske, Merton E.	Ag.	Sr.	Willows, Calif.
Donaldson, Gene William	A&S	So.	Reno
Dondero, Alan Gerard	A&S	Fr.	Carson City
Dondero, Angelo Francis	A&S	Sp.	Lovelock
Dondero, Roy K.	MM	Jr.	Reno
Downer, Robert Carpenter	CE	Sr.	Reno
Downey, Gene D'Laurel	A&S	Jr.	Las Vegas
Doxey, Loren T.	EE	Fr.	Carlin
Doyle, Alice Ruth	A&S	So.	Reno
Doyle, Howard Stewart, Jr.	A&S	So.	Reno
Doyle, C. Louise Wogan	A&S	So.	Reno
Doyle, William Thomas	CE	So.	Reno
Drake, Peggy Jean	A&S	So.	Wells
Drakulich, Duke	A&S	Fr.	Kimberly
Drakulich, Mike	A&S	Jr.	McGill
Dranchak, John	MM	Fr.	Endicott, N. Y.
Drennon, Edgar Raymond	A&S	Fr.	Sacramento, Calif.
Drewette, Frederick M.	EE	So.	Reno
Drown, Donald Delbert	Ag.	Sr.	Elko
Drown, Lora Jean	A&S	Jr.	Elko
Drown, Ralph Dayton	CE	So.	Oroville, Calif.
Drown, Robert Joseph, Jr.	A&S	Fr.	Lovelock
Drumm, Andrew Dellard	CE	Fr.	Fallon
Drumm, Manuel Felix		Gr.	St. Louis, Mo.
Duffy, Charles C.	A&S	Fr.	Sparks
Dugan, George	A&S	Fr.	Reno
Dugan, Marilyn Elizabeth	A&S	Sr.	Reno
Dulgar, James	Ag.	Fr.	Sparks
Dunbar, Lolamae	A&S	So.	Boulder City
Duncan, Robert	MM	Fr.	San Francisco, Calif.
Dundee, Carol Edythe	A&S	Fr.	Roseville, Calif.
Dunn, James Aaron	Ag.	Fr.	Yerington
Dupont, John Louis	CE	Fr.	Reno
DuPratt, Ronald	A&S	So.	Yerington
Durham, Dariel	A&S	Fr.	Reno
Durham, Robert C., Jr.	A&S	Jr.	Ft. Lauderdale, Fla.
Dysart, Dixie	A&S	So.	Elko
Earl, Joseph Lyman	EE	Sr.	Las Vegas
Earl, Winona Davis	A&S	So.	Las Vegas
Early, Raymond E.	CE	Fr.	Verdi
Eason, James Rodney	A&S	Fr.	Sparks

Name	College	Classification	Home Address
Eason, Richard L.	A&S	Fr.	Sparks
Eather, Josephine J.	A&S	Jr.	Eureka
Ebberts, Rodney Orin	EE	Fr.	Hagerman, Idaho
Ebert, John William	EE	So.	Las Vegas
Ebert, William Henry	MM	So.	Sutton, Nebr.
Eccles, William W.	Ag	Sr.	Reno
Echevarria, John Tony	CE	Fr.	Reno
Eckley, Edith Kelly (Mrs.)	A&S	Sp.	Reno
Eckley, Leland B.	CE	Jr.	Mina
Eddy, George Vern	MM	Fr.	Sparks
Edsall, Floyd Leonard	A&S	Sr.	Sparks
Edwards, Betty Jane	A&S	Fr.	Reno
Edward, Joyce	A&S	Fr.	Las Vegas
Ekel, Thomas Milton	A&S	Fr.	Reno
Eliades, Jordon	A&S	Jr.	McGill
Ellis, Alberta	A&S	Fr.	Fallon
Ellis, Joseph Matthew	MM	Jr.	Chicago, Ill.
Ellis, Mary Katherine	A&S	Fr.	Sparks
Ellis, Maxine	A&S	So.	Reno
Ellis, Ray Gaston	MM	Fr.	Altadena, Calif.
Elmore, Richard James, Jr.	ME	So.	Babbitt
Emerson, Edwin Vurnis	A&S	Fr.	Gerlach
Emery, James Patrick	MM	Fr.	Las Vegas
Engelke, Honor Claire	A&S	Fr.	Ely
English, Arthur Matthew	A&S	Fr.	Winnemucca
Enke, Helen Rosalie	A&S	So.	Elko
Enke, Mary Lillian	MM	So.	Elko
Erk, Jo Ann	A&S	So.	Reno
Erich, Theodore	MM	Fr.	Redwood City, Calif.
Erquiaga, Jess Anthony	A&S	Fr.	Ely
Ertter, Bernadette Lois	A&S	So.	Boise, Idaho
Escobar, Francis	A&S	Sr.	Austin
Esola, James Charles, Jr.	MM	Fr.	Amador City, Calif.
Etchart, Alice	A&S	Jr.	Winnemucca
Etcheto, John	A&S	So.	Turlock, Calif.
Etchemendy, Marie Ann	A&S	Fr.	Gardnerville
Eustachy, George Marius	EE	Fr.	Oakland, Calif.
Evans, Eugene Thomas	A&S	Sr.	Oakland, Calif.
Evans, June Hilda	A&S	Fr.	Reno
Evasovic, Eli	A&S	Fr.	Ruth
Evasovic, Emil	A&S	Fr.	Ruth
Everett, Albert Bernard	A&S	Fr.	Sparks
Ewing, Betty Louise	A&S	Fr.	Las Vegas
Ewing, Martin William	EE	Fr.	Boulder City
Faddis, Del Mar B.	A&S	Sp.	Reno
Fagan, John Francis	MM	So.	Los Angeles
Fairchild, George	Ag	Sp.	Sacramento, Calif.
Fairchild, Mahlon David	A&S	Jr.	Reno
Fairchild, Margaret	HE	Fr.	Reno
Fairn, Patricia Ann	A&S	Fr.	San Francisco, Calif.
Falconeri, Gennaro	A&S	So.	Reno
Farnsworth, Bertha E.	A&S	Fr.	Ely

Name	College	Classification	Home Address
Farnsworth, Darwin	A&S	So.	Winters, Calif.
Farrell, Howard	Ag	Sr.	Reno
Faul, Rose Marie	A&S	Fr.	Salinas, Calif.
Fee, Patricia Ann	A&S	Fr.	Fort Bidwell, Calif.
Ferguson, Bryant C.	ME	Fr.	Suison, Calif.
Ferguson, Lewis M.	A&S	Fr.	Portola, Calif.
Ferguson, Marilou	A&S	Sr.	Reno
Ferrari, Evelyn	A&S	Jr.	Sparks
Ferrari, George M.	A&S	Fr.	Reno
Ferris, Mary Arlene	A&S	So.	Herlong, Calif.
Fialdini, Alfred	EE	Fr.	Wells
Fiddes, Paul Eugene	MM	Fr.	Ruth
Figley, Ethel	A&S	Sp.	Reno
Finch, Jeanne V.	A&S	Fr.	Reno
Fischer, Harold	A&S	Fr.	San Francisco, Calif.
Fisher, Franklin Gerald	A&S	Sr.	Minden
Fisher, Mary Wilma	A&S	Fr.	Reno
Fitzgerald, William	A&S	Fr.	Sparks
Flavin, Wilburta	A&S	Sr.	Montello
Fleming, Charles E., Jr.	A&S	Jr.	Reno
Fleshman, Robert Dean	A&S	Fr.	Las Vegas
Flynn, Charles Patrick	Ag	Fr.	Sparks
Foley, John Patrick	A&S	Fr.	Reno
Foley, Joseph M.	A&S	Fr.	Reno
Folz, Leale Charles	ME	Fr.	Carson City
Fong, Ging	MM	Fr.	Reno
Fong, Tung Shuy	MM	Sr.	Reno
Fong, Wing Gay	A&S	Fr.	Minden
Ford, Betty Marie	A&S	Sp.	Little Falls, N. Y.
Ford, Donald G.	A&S	Fr.	Yerington
Forsyth, Stanley S.	Ag	Fr.	Caliente
Foster, Billy Tate	A&S	Sr.	Canton, Texas
Foster, Helen M.	A&S	Fr.	Reno
Fotos, Adrienne	A&S	Fr.	McGill
Foulkes, Harvey Barrett, Jr.	EE	So.	San Francisco, Calif.
Fox, Kenneth S.	EE	Fr.	Fallon
Fox, Otto M., Jr.	CE	Fr.	Arcadia, Calif.
Francellini, Patrick F.	A&S	Fr.	Wilson, Pa.
Francis, John E.	A&S	Sp.	Los Angeles
Francovich, Jac. N.	A&S	Fr.	Reno
Frank, Jack Donald	MM	Fr.	Elko
Frank, Lyda	A&S	Fr.	Schurz
Franklin, Glenn S.	MM	Fr.	Reno
Franson, Carl Emil, Jr.	CE	Sr.	Cathedral City, Calif.
Frantz, Theodore Claude	A&S	Fr.	Reno
Frasher, John Angus	CE	Fr.	Reno
Frediani, Silvano J.	A&S	So.	Sparks
Free, Raymond Brafford, Jr.	A&S	Fr.	Pioche
Freeman, James Frank	A&S	Fr.	Reno
Freemont, Earl Chester	A&S	Fr.	Reno
Freemont, Elwyn F.	A&S	Sr.	Reno
Frehner, Gordon	EE	Fr.	Las Vegas

Name	College	Classification	Home Address
French, Donald	A&S	Fr.	Wendell, Idaho
Fricke, Calvin Alden	Ag	Fr.	Gardnerville
Friel, James Bernard	A&S	Fr.	Tonopah
Friel, John J., Jr.	A&S	Fr.	Tonopah
Friend, Marjorie	A&S	Fr.	Henderson
Frisbie, Charles Robert	MM	Jr.	Los Angeles, Calif.
Fritz, Betty Lee	A&S	So.	Bridgeport, Calif.
Frugoli, Pete, Jr.	A&S	Fr.	Sparks
Fryberger, Fay Elaine	A&S	Fr.	Lovelock
Fryer, Charles Morel	Ag	Fr.	Concord, Calif.
Fugit, William Dale	MM	So.	Pendleton, Ore.
Fulstone, Richard Nelson	Ag	Fr.	Smith
Fulton, Jack Ryan	Ag	So.	Reno
Funk, Alfred	MM	Fr.	Preston
Funkhouser, Preston Lee, Jr.	MM	Jr.	Reno
Furchner, Patricia Virginia	A&S	Fr.	Reno
Furchner, Theodore Allen	CE	So.	Reno
Furin, Jack James	A&S	So.	Uniontown, Pa.
Gaffey, Thomas T.	A&S	Fr.	Reno
Gaffey, William T., Jr.	Ag	Fr.	Reno
Gallagher, Gedney	A&S	Fr.	Elko
Gallagher, Tom H.	A&S	So.	Elko
Gallaway, Harry A.	ME	Sr.	Reno
Galli, Michael	Ag	Sp.	Elko
Galli, Peter E., Jr.	MM	Fr.	Elko
Galloway, Baldwin	A&S	Sp.	Reno
Gallues, Henry N.	A&S	So.	Reno
Gamble, John Robert	Ag	Sr.	Hazen
Garcia, Tony Arthur	EE	Sp.	Reno
Gardella, Raymond Francis	A&S	So.	Sparks
Gardner, Franklin K.	A&S	So.	Lovelock
Gardner, Virginia M.	A&S	Jr.	Reno
Garfinkle, Buddy A.	A&S	Fr.	Reno
Garner, Nina	A&S	Fr.	Tungsten
Garner, Roma F.	A&S	Jr.	Tungsten
Garrett, Eva Mae	A&S	Fr.	Sparks
Garrett, Robert E.	A&S	Fr.	Sparks
Garrigus, Iveagh (Mrs.)	A&S	Sp.	Reno
Garrison, Elenor M.	A&S	So.	Sparks
Gartler, Seymour	A&S	Fr.	No. Hollywood, Calif.
Gary, Arthur	MM	Fr.	Oakland, Calif.
Gates, George Henry	A&S	Sp.	Reno
Gates, Kaye H.	A&S	Sp.	Reno
Gavitt, William M.	A&S	So.	Cranston, R. I.
Gelmstedt, Cliff Theodore	Ag	Sr.	Pyramid
Gent, John R.	A&S	Sr.	Reno
Gent, Ruth	A&S	So.	Reno
Gent, William R.	A&S	Fr.	Reno
Gentry, V. L.	EE	Fr.	Little Rock, Ark.
Geohegan, William L.	A&S	Fr.	Altadena, Calif.
George, Beebe	A&S	So.	Reno
George, Don Stacy	A&S	Fr.	Reno

Name	College	Classification	Home Address
Geraghty, William M.	ME	So.	Ely
Gerrans, Mary Lou	A&S	Jr.	Reno
Getto, George M.	A&S	So.	Sparks
Geyer, Charles	A&S	So.	Tonopah
Ghilieri, Catherine	A&S	Fr.	Reno
Gialy, Andrew	A&S	Fr.	Elko
Gianelli, Louis Frank	A&S	Fr.	Stockton, Calif.
Gianelli, Rosemary	Ag	Jr.	Stockton, Calif.
Gibson, Charles C.	A&S	Fr.	Reno
Gibson, George P.	A&S	So.	Carson City
Gibson, Mary Harriet		Gr.	Reno
Gibson, Ray William	ME	Fr.	Henderson
Gibson, Robert W.	A&S	Fr.	Jacksonville, Fla.
Gidley, Joyce	A&S	Fr.	McGill
Gifford, Robert L.	A&S	Fr.	Las Vegas
Gigas, Gunter	A&S	Fr.	Reno
Gilbert, Marvin Dick	CE	So.	Reno
Gilbert, Quinter O., Jr.	A&S	Jr.	Wellington
Gildner, Will Warner	MM	Fr.	Las Vegas
Gildone, Mario	A&S	Fr.	Reno
Gillespie, Annie Belle	HE	Fr.	Sparks
Gillespie, Edith	A&S	Fr.	Sparks
Gillis, William Grant	A&S	So.	Long Beach, Calif.
Gillom, Horace A.	A&S	Fr.	Massillon, Ohio
Gilmore, Earl Penilton	ME	Fr.	Boulder City
Ginocchio, Andrea	A&S	So.	Reno
Giorgi, Evo	EE	Sr.	Yerington
Giorgi, Ugo, Jr.	Ag	Fr.	Yerington
Glaser, Lea Jane	A&S	Fr.	Elko
Glazer, Charles H.	A&S	Sp.	Dorchester, Mass.
Glock, Manford Julian	CE	Fr.	Elko
Glynn, James M.	ME	Jr.	Reno
Godbey, James Milton	EE	Fr.	Boulder City
Godbey, Thomas	EE	Fr.	Boulder City
Goen, Lawrence R.	EE	Fr.	Boulder City
Goen, Paul K.	EE	Fr.	Boulder City
Goff, Charles W.	CE	Fr.	Reno
Goicoa, Ramon N.	CE	Fr.	Elko
Gold, Pershing J.	A&S	So.	Carson City
Golick, Esther	A&S	Sr.	Reno
Gomes, Edward Francis	A&S	Fr.	Fallon
Gomes, John M.	MM	Fr.	Oakland, Calif.
Gonfiantini, Nello, Jr.	Ag	Fr.	Reno
Gonzales, Florence E.	A&S	Sr.	Reno
Goodin, James Thomas	A&S	So.	Reno
Goodrich, Kenneth E.	ME	Fr.	Henderson
Gordon, Esther E.	A&S	Sp.	Burlington, Wash.
Gori, Floyd E.	ME	Fr.	Sparks
Gorman, Richard H.	EE	So.	Reno
Gotberg, Marian E.	A&S	Jr.	Reno
Gough, Jack Richard	EE	Fr.	Salt Lake City, Utah
Gough, Ray Frank	MM	So.	Salt Lake City, Utah

Name	College	Classification	Home Address
Gould, Barbara J.	A&S	So.	Reno
Gould, Harry K.	EE	Sp.	Pittsfield, Maine
Gould, Robert E.	A&S	Sr.	Grants Pass, Ore.
Gramkow, David	A&S	So.	Gardnerville
Gramkow, Edwin W.	A&S	Sp.	Minden
Granata, Evo A.	A&S	Jr.	Reno
Gras, Sidney J.	EE	Fr.	Rock Springs, Wyo.
Graves, Orsemus S.	A&S	Sr.	Sparks
Gray, Raymond G.		Gr.	Yerington
Grebe, Carl	A&S	So.	Midland, Mich.
Green, Chester		Gr.	Yerington
Green, Phyllis Belle		So.	Sparks
Green, Wallace G.	EE	So.	Sitka, Alaska
Gregory, Arthur Royce	EE	Jr.	Elko
Gregory, Edwina	A&S	Fr.	Reno
Gregory, Ernest G.	A&S	Fr.	Elko
Gregory, Norma	A&S	Jr.	Reno
Gregory, William B.	EE	Sp.	Reno
Griffen, Gloria G.	A&S	Fr.	Reno
Griffin, Marguerite		Gr.	Reno
Griffith, George	ME	Fr.	Thornton, Calif.
Griffith, Rupert E.	A&S	Fr.	Las Vegas
Griswold, Morley W.	A&S	Fr.	Reno
Grotegut, Eugene Kelson	A&S	So.	Sparks
Groth, George Robert	A&S	Fr.	Carson City
Grover, Theodore W.	EE	Fr.	Rock Springs, Wyo.
Grubic, Robert	A&S	So.	Ruth
Gruwell, Joseph D., Jr.	A&S	Fr.	Hawthorne
Gubler, Delma	A&S	Fr.	Logandale
Guess, Joyce Lois	A&S	So.	Loyalton, Calif.
Guisto, Emmet Louis	A&S	Fr.	Oakland, Calif.
Gunston, Enid Dorothy	A&S	Fr.	Sacramento, Calif.
Gustin, William	EE	Sr.	Coachella, Calif.
Hackett, Helen	A&S	Jr.	Pioche
Hackett, Irving	MM	Fr.	Pioche
Hagar, Thomas Roy	EE	So.	Sparks
Hageleen, Maurice Lee	A&S	So.	Boone, Iowa
Haley, Gloria	A&S	Jr.	Litchfield, Calif.
Hall, Anna Iriarte (Mrs.)	HE	Sr.	Winnemucca
Hall, Carlton Francis	A&S	Fr.	Reno
Hall, Louis		Gr.	Reno
Hall, Norma	A&S	So.	Manhattan Bch., Cal.
Hall, Welburn Wesley	ME	Fr.	Eureka
Haman, Howard John	A&S	Sr.	Seattle, Wash.
Hamilton, David E.	EE	Fr.	Hagaman, N. Y.
Hamilton, Harold Frank	A&S	Fr.	Winnemucca
Hancock, William Edward	A&S	Fr.	Carson City
Hand, Elma D.	A&S	Jr.	Reno
Hand, Melva Louise	A&S	Fr.	Reno
Hanford, G. B., Jr.	ME	Sr.	Alhambra, Calif.
Hanley, Mary Cathleen	A&S	So.	Reno
Hanna, Dale	A&S	So.	Reno

Name	College	Classification	Home Address
Hansen, Alfred William	Ag	Fr.	Hiko
Hansen, Anna Lu	A&S	So.	Portland, Oregon
Hansen, Harris A.	MM	Sr.	Ely
Hansen, Marilyn	A&S	So.	Verdi
Hansen, Stanley	CE	Fr.	Boulder City
Hansen, William C.	Ag	Sp.	Los Angeles, Calif.
Hanson, Marcella Phelps	A&S	Sp.	E. St. Louis, Ill.
Hanson, Raymond L.	CE	Sp.	Bottineau, N. D.
Hanssen, Alice Marie	A&S	Sr.	Sparks
Hanssen, Doris Agnes	A&S	So.	Sparks
Hadesty, Manford Ira	CE	Fr.	Reno
Hardin, Eleanor G. C.		Gr.	Reno
Hardison, Artson P.	ME	Fr.	Pasadena, Calif.
Harmer, William Francis	EE	Fr.	Contact
Harmon, John Robert	MM	Fr.	Imlay
Harney, Gordon Bernard	A&S	Fr.	Carson City
Harp, June Carroll	A&S	So.	Corcoran, Calif.
Harp, Merrie Jo	A&S	Jr.	Susanville, Calif.
Harper, William Matthew, Jr.	MM	Fr.	Virginia City
Harrigan, William Anderson	MM	Sr.	Reno
Harris, Brunson M.	A&S	So.	Lovelock
Harris, Gordon Walter	A&S	So.	Reno
Harris, Jack Charles	A&S	Fr.	Las Vegas
Harris, Joyce Adair	HE	Fr.	Cedarville, Calif.
Hartor, Robert Francis	A&S	Sp.	Fernley
Harvey, Marion Leslie	A&S	Sr.	Carson City
Harvey, Thomas G.	EE	So.	Reno
Harwood, Dewey Shafter, Jr.	MM	So.	Battle Mountain
Hathhorn, Dallas M.	A&S	Fr.	Cambridge, Idaho
Hattala, John M.	A&S	Sr.	Erie, Pa.
Hauk, Robert W.	A&S	Fr.	Pasadena, Calif.
Haviland, Olive C.	A&S	So.	Winnemucca
Hawkins, Gordon L.	A&S	Jr.	Las Vegas
Hawkins, John C.	A&S	Jr.	Reno
Hawkins, Leslie E.	A&S	So.	Reno
Haydock, Elizabeth G.	A&S	So.	Glendale, Calif.
Hayes, Harold B.	A&S	So.	Fort Lauderdale, Fla
Heath, Billy Jane	A&S	Jr.	Reno
Hecker, Nancy Ann	A&S	Fr.	Reno
Heckethorn, Howard E.	A&S	Jr.	Las Vegas
Heher, Bertine Ann	A&S	So.	Henderson
Heher, David M.	EE	Sp.	Henderson
Heher, John Francis	A&S	Sr.	Henderson
Heidtman, Donald G.	ME	Sp.	Reno
Heim, Ann Esther	A&S	Fr.	Reno
Heinen, Fred C.	EE	Jr.	Reno
Heinrich, Frank W.	A&S	Fr.	Shadyside, Ohio
Hellwinkel, Daniel R.	ME	Fr.	Minden
Helstowski, John T.	A&S	So.	Irvington, N. J.
Henley, William J., Jr.	A&S	Sr.	Virginia City
Henningsen, John C.	A&S	Fr.	Gardnerville
Henrickson, Oliver	ME	Jr.	Oakland, Calif.

Name	College	Classification	Home Address
Herrick, James F.	A&S	Fr.	Reno
Heun, Peggy E.	HE	Fr.	Riverside, Calif.
Heywood, Helaine F.	A&S	So.	Reno
Hiatt, Glenn J., Jr.	Ag	Fr.	Sacramento, Calif.
Hibbs, Jo	A&S	So.	Golconda
Hickman, Jacqueline J.	A&S	Fr.	Reno
Hicks, Archie C.	A&S	Fr.	Reno
Hicks, Dean W.	ME	Fr.	Sparks
Hicks, Estella	A&S	Sr.	Sparks
Hildebrand, Bert D.	A&S	So.	Reno
Hill, Bruce Murchison	A&S	So.	Reno
Hill, Charles	A&S	Fr.	Reno
Hill, George M.	A&S	So.	Reno
Hill, Mary Louise	A&S	Sr.	Reno
Hill, Richard Marcus	CE	Fr.	Napa, Calif.
Hill, Stanley Gale	A&S	So.	Reno
Hilliard, Emily		Gr.	Reno
Hilts, Frederick B.	A&S	Fr.	Reno
Himes, George Hadley	A&S	So.	Carson City
Hincelot, Anita M.	A&S	Sr.	Mt. View, Calif.
Hinckley, Ward Wayne	A&S	Fr.	Reno
Hinds, Norma Jean	A&S	Fr.	Wellington
Hinman, Louis J.	A&S	Sp.	Las Vegas
Hitchens, Lois Elaine	A&S	So.	Reno
Hodge, Barbara Anne	A&S	So.	Reno
Hoefling, Paul D.	MM	Sr.	Sacramento, Calif.
Hofmeister, Cyril T., Jr.	A&S	Fr.	Oakland, Calif.
Hoggan, George W., Jr.	A&S	Fr.	McGill
Hokhold, Vilma	A&S	Fr.	Reno
Holderman, Orville Lynn	A&S	Jr.	McGill
Holland, Richard	A&S	Fr.	Reno
Holliday, Harry Ripley	EE	Fr.	Pasadena, Calif.
Holloway, John A.	A&S	Fr.	Los Angeles, Calif.
Holman, Clarence Dale	A&S	Fr.	Winnemucca
Holman, Shanna Louise	A&S	Fr.	Ely
Holmes, Bettye	A&S	Fr.	Elko
Holmes, Edith		Gr.	Reno
Holstrom, Harold	A&S	Sp.	Reno
Hooper, Dorothy Elaine	A&S	Jr.	Eureka
Hooper, William H.	EE	So.	Vallejo, Calif.
Hopkins, Galen Perry	A&S	So.	Sonoma, Calif.
Horton, Robert Carlton	MM	So.	Reno
Horton, William A.	A&S	Fr.	Modesto, Calif.
Houck, Thomas	A&S	Fr.	Tiffin, Ohio
Houghtaling, Earl Jay	EE	So.	Paradise, Calif.
Houghtaling, Mary Julia	HE	Sp.	Reno
Houghton, Alvin Albert	EE	Fr.	Susanville, Calif.
Houghton, Lorraine	A&S	So.	Susanville, Calif.
Hovenden, Mary Lou	A&S	Sr.	McGill
Howard, Jean Eleanor	HE	Fr.	Fallon
Howard, Landon H.	EE	Fr.	Long Beach, Calif.
Howard, Robert L.	EE	Jr.	Reno

Name	College	Classification	Home Address
Hoyer, Robert William		Gr.	Oakland, Calif.
Hubbard, Charmaine	A&S	Fr.	Virginia City
Hubbard, Leon Ronald	Ag	Fr.	Broadus, Mont.
Huddleston, Jack	A&S	Fr.	Reno
Hudgens, Dorothy J.	A&S	Fr.	Reno
Huff, Alberta Jane	A&S	Fr.	Hood, Calif.
Hughs, William John	A&S	So.	Dutch Flat, Calif.
Hull, Jack Eugene	A&S	Fr.	Elko
Hulme, Gilbert N.	A&S	So.	Reno
Hummer, Bernard E.	A&S	Fr.	Las Vegas
Humphrey, Barbara Ann	A&S	So.	Reno
Humphrey, Frances		Gr.	Reno
Hunt, Charles	A&S	Fr.	San Bernardino, Cal.
Hunt, Douglas L.	Ag	So.	Reno
Hunter, Anne	A&S	Sp.	Reno
Hursh, Ernest W.	A&S	Jr.	Fallon
Hurst, Clayton R.	A&S	So.	Reno
Hutton, Richard	ME	Jr.	Cucamonga, Calif.
Hyde, Orson	A&S	So.	Amer. Fork, Utah
Illerich, Daniel G.	ME	So.	Sacramento, Calif.
Illerich, Philip Bernard	ME	Fr.	Sacramento, Calif.
Ingle, Hugh C., Jr.	MM	Jr.	Sacramento, Calif.
Ireland, Patricia Claire	A&S	Jr.	McGill
Ireland, Willis John	A&S	Fr.	McGill
Irish, William Cooper	A&S	Fr.	Sparks
Isaksson, Stig	A&S	So.	Carlin
Isola, Mario J.	A&S	So.	Reno
Ito, Tomomi	A&S	Sr.	Fallon
Itza, Marion	A&S	So.	Winnemucca
Jack, Dale	A&S	Fr.	Reno
Jackson, Carl Alvin	A&S	Fr.	Manhattan, Kan.
Jackson, John L.	A&S	Fr.	Reno
Jackson, Nicholas DeLange	A&S	Fr.	Reno
Jackson, Richard Maurice	CE	Jr.	Boulder City
Jacobs, Raymond Gilbert	A&S	Fr.	Nezperce, Idaho
James, Marilyn R.	A&S	So.	Virginia City
Jardon, Mary	A&S	Sp.	Reno
Jemison, Rex Alan	A&S	So.	Las Vegas
Jenkins, Harold E.	A&S	Fr.	Reno
Jenkins, Jesse	A&S	Fr.	Reno
Jensen, Elinor R.	A&S	Sr.	Gardnerville
Jensen, Frederick R.	A&S	Fr.	Gardnerville
Jensen, Mary Jean	A&S	Fr.	Reno
Jensen, Olive	A&S	So.	Reno
Jewett, Donald K.	CE	Fr.	Independence, Calif.
Johns, Granville Ernest	A&S	Fr.	Yerington
Johnsen, Malvin Bernard	A&S	Fr.	Culbertson, Mont.
Johnson, Arthur Wellesley	A&S	So.	Fallon
Johnson, Donald Scott	A&S	Jr.	Austin
Johnson, Emmett C.	CE	So.	Los Angeles, Calif.
Johnson, Eppaminondas G.	A&S	Jr.	Reno
Johnson, Frank Hilton	A&S	Fr.	Reno

Name	College	Classification	Home Address
Johnson, Irvin Lee	Ag	Fr.	Las Vegas
Johnson, Joylin	A&S	So.	Las Vegas
Johnson, Laura Lue	HE	So.	Fallon
Johnson, Laurence W.	MM	Fr.	Duncan, Ariz.
Johnson, William Howard	A&S	So.	Fallon
Johnson, Noel W.	A&S	Fr.	Arcadia, Calif.
Johnson, Virgil Kay	A&S	Fr.	Reno
Johnson, Walter Burton	MM	Fr.	Kimberly
Johnston, Charles Ernest	MM	Jr.	Sacramento, Calif.
Johnstone, Thelma	A&S	So.	San Jose, Calif.
Joice, Fred Alexander	A&S	Fr.	Winnemucca
Jolly, Tom L.	ME	Fr.	Reno
Jones, Edmund A.	A&S	Fr.	Sparks
Jones, Henry William	A&S	So.	Fallon
Jones, Maxine Louise	A&S	Fr.	Winnemucca
Jones, Patricia Louise	A&S	Fr.	McGill
Jones, Robert Blanchard	MM	Jr.	Sacramento, Calif.
Jones, Robert J.	EE	Sr.	McGill
Jones, Robert S.	A&S	Fr.	Winnemucca
Joplin, Marshall D.	MM	Sr.	Coarsegold, Calif.
Joudas, Alice	A&S	So.	San Francisco, Calif.
Julian, Joseph	A&S	Fr.	Reno
Justycky, Felix	A&S	Fr.	Albany, N. Y.
Kabeary, William	A&S	Fr.	San Francisco, Calif.
Kafoury, Samuel Peter	ME	Fr.	Reno
Kajans, George	A&S	Fr.	Reno
Kalmanir, Tom J.	A&S	Fr.	Jerome, Pa.
Kaminaka, Eunice	A&S	Fr.	Reno
Kane, Harry Philip	MM	Fr.	Concord, Calif.
Kanig, Glen Lorrain	MM	Fr.	Markleeville, Calif.
Kaplan, Abe	A&S	So.	Reno
Karrasch, Karl Kenneth	A&S	So.	Reno
Karrasch, Robert R.	Ag	Fr.	St. Joseph, Mo.
Karren, Donna Lou			Fallon
Kastenas, Boleslaus W.	A&S	So.	Reno
Katz, Leonard	MM	So.	Bronx, N. Y.
Kaul, Harry John	EE	Jr.	Golconda
Kaupp, Robert Edward	A&S	Sp.	Reno
Kean, Marjory C.	HE	Fr.	Carson City
Keating, James Carlin	ME	Fr.	Sparks
Keever, Charles Lee	EE	Fr.	Carson City
Kegel, Jerome Charles	ME	So.	Detroit, Mich.
Keiffer, Robert Stanley	A&S	So.	Reno
Keith, Carol	A&S	Jr.	Sacramento, Calif.
Keller, Harold Paschall	ME	So.	Las Vegas
Keller, Shirley	A&S	Fr.	Elko
Kelley, Marjorie Idella	A&S	Fr.	Imlay
Kelley, Marjorie J.	A&S	Sr.	Eureka
Kelley, Virginia	A&S	Fr.	Reno
Kellough, Ida Mae	A&S	Jr.	Santa Ana, Calif.
Kelso, Margaret Helen	A&S	So.	Bishop, Calif.
Kemper, Anna May	A&S	Sr.	W. Hollywood, Calif.

Name	College	Classification	Home Address
Kendall, Robert Eli	MM	Jr.	Virginia City
Kennedy, Frances Wilma	A&S	Jr.	Susanville, Calif.
Kennedy, Robert Holm	A&S	Fr.	Bishop, Calif.
Kent, Robert R.	A&S	Fr.	Fallon
Kerr, Eileen Marjorie	A&S	Sr.	Ely
Kerr, Robert Todd	Ag	Fr.	Reno
Kewley, Bruce R.	A&S	So.	Lovelock
Kiley, L. David	A&S	Fr.	Reno
Kim, Elizabeth	A&S	Fr.	Las Vegas
Kincaid, Grace Alice	A&S	Sr.	Reno
King, John T.	ME	So.	Johnsville, Calif.
King, Mary Ann	A&S	Fr.	Los Angeles, Calif.
Kinneberg, David Andrew	MM	Fr.	Battle Mountain
Kinner, Richard Ervin	EE	Fr.	Ogden, Utah
Kinney, Joseph F.	ME	So.	Winnemucca
Kinnikin, Norma Eason	A&S	So.	Winnemucca
Kinnikin, William E.	A&S	Fr.	Reno
Kirkbride, Loren	EE	So.	Sebastopol, Calif.
Klemaszewski, Matthew E.	A&S	So.	Garfield, N. J.
Klenes, James C.	A&S	Fr.	Uniontown, Pa.
Knight, James C.	A&S	Fr.	San Francisco, Calif.
Knoles, James Pierce	A&S	Fr.	Gaveota, Calif.
Knoll, George A.	MM	Fr.	Maywood, Calif.
Knowles, Gerald	MM	So.	Willows, Calif.
Knowles, Richard L.	A&S	Fr.	St. Petersberg, Fla.
Knudson, Elmer R.	A&S	So.	Reno
Kondel, Ted William	CE	Fr.	Wallington, N. J.
Korb, Robert W.	A&S	Fr.	Reno
Kornmayer, Freda J.	A&S	So.	Reno
Kornmayer, William A.	A&S	So.	Reno
Kosakowski, Stanley W.	A&S	Fr.	Housatonic, Mass.
Kramer, Bertel M.	A&S	Fr.	Sparks
Kretzmeier, Devona	A&S	Fr.	Reno
Krick, Harry R.	Ag	Fr.	Corona, Calif.
Kuckenmeister, Avis B.	A&S	Fr.	Caliente
Labonok, John	MM	Sp.	New York, N. Y.
Laca, John	A&S	Fr.	Lovelock
Lamberson, Ellis	MM	Fr.	Hawthorne
Landucci, August J.	A&S	Fr.	Reno
Lane, Jimmie Joan	A&S	Fr.	Winnemucca
Lane, William I.	MM	Sr.	Reno
Langan, Lucien N.	MM	Fr.	Flushing, N. Y.
Langley, Cordes	Ag	Fr.	Berkeley, Calif.
Langley, William A.	A&S	Fr.	Sparks
Lanning, Louis Keith	A&S	Fr.	Reno
Larragueta, Harold M.	ME	So.	Winnemucca
Larsen, Andrew Roy, Jr.	A&S	Fr.	Reno
Larsen, Marcella	HE	Sp.	Reno
Larsen, Raymond Henry	MM	Fr.	Ely
Larsen, Robert Theodore	A&S	Fr.	San Francisco, Calif.
Larson, Adolph Roy	EE	Fr.	Parlier, Calif.
Larson, Bruce L.	EE	Jr.	Manhattan

Name	College	Classification	Home Address
Larson, Leonard James	MM	Fr	Manhattan
Larsson, Alfred John Jr.	WW	Fr	Jersey City, N. J.
Laughery, Arlyn L	A&S	Fr	Boulder City
Launer, Camille	A&S	Jr	Reno
Launer, Douglas	MM	Jr	San Gabriel, Calif.
Lawson, Robert Nichol	A&S	Fr	Reno
Laxalt, John Maurice	A&S	Fr	Carson City
Laxalt, Robert Peter	A&S	Sr	Carson City
Layton, George K.	A&S	Fr	Battle Mountain
Lazzarone, Albert	A&S	Jr	Sacramento, Calif.
Leavitt, Zella	A&S	So	North Las Vegas
Leberski, Walter	Ag	Fr	Reno
LeClare, Charles A.	A&S	Fr	Reno
LeDuc, Raoul	A&S	Fr	Walnut Creek, Calif.
Lee, Charles Allen	CE	Fr	Salinas, Calif.
Lee, Georgia	A&S	Fr	Reno
Lee, Harriet M.	A&S	So	Reno
Lee, John Peter	A&S	Fr	Reno
Lee, Maida	A&S	Fr	Boulder City
Lee, Marilynn	A&S	Fr	Reno
Lee, Stuart		Gr	Jackson Heights, N.
Leeds, Laura Lou		Sp	Reno
Lefebvre, Ortrude K.	A&S	Fr	Callaway, Minn.
Leftwich, Ellen	A&S	Sp	Reno
Leggett, John Bruce	A&S	Fr	Reno
LeGoy, Leo Robert	A&S	So	Bishop, Calif.
Lehman, Beverley Edna	A&S	Fr	San Francisco, Calif.
Leigh, Lorraine Beryl	A&S	Fr	Sparks
Leisure, Carl W.	A&S	Gr	Rushville, Ind.
Lemaire, Darrell B.	A&S	Sp	Reno
Leonard, Lionel George	A&S	Fr	Boulder City
Leonard, William Edward	A&S	Fr	Sparks
Lepori, Edna Claudine	A&S	Fr	Carson City
Lepori, Henry J.	A&S	Fr	Carson City
Lepori, Paul Charles	A&S	Fr	Carson City
Leupold, Ralph Pollard	ME	Fr	Norwich, Conn.
Levack, Samuel S.	A&S	So	Reno
Leveille, Pauline	A&S	Sr	Wellington
Levison, David R.	MM	Fr	Reno
Lewis, Ben	MM	Jr	Los Angeles, Calif.
Lewis, Dana Brewster	Ag	Fr	Reno
Lewis, Richard C.	Ag	So	Overton
Lewis, Wayne Earl	A&S	Fr	Logandale
Libbey, Mary Gluyas	A&S	Sr	Nevada City, Calif.
Lillard, Louise Chastain	A&S	Fr	Reno
Lilly, Donald D.	A&S	Sp	Burlingame, Calif.
Linabary, Dorothy	A&S	So	Reno
Linck, Donald LaMar	ME	Fr	Boulder City
Lind, Patricia	A&S	Fr	Fernley
Lindesmith, George Gerald	A&S	Fr	Henderson
Lindesmith, Orlando Roger, Jr.	EE	Fr	Henderson
Lindsey, Billy Louis	Ag	Fr	Caldwell, Ark.

Name	College	Classification	Home Address
Linka, Robert	Ag	Fr	Austin
Linville, Gladys	A&S	Sp	Reno
Litster, Birdell G.	HE	Fr	Sparks
Little, Robert Elliott	A&S	So	Winnemucca
Littlefield, Jane R.	A&S	Jr	Elko
Littlejohns, Dale	A&S	Fr	Alameda, Calif.
Livierato, Eli	A&S	So	Reno
Lockart, Charles	MM	So	Dunsmuir, Calif.
Lokke, Gerald Fred	A&S	Fr	Sparks
Long, Walter E.	ME	Fr	Las Vegas
Long, William B.	HE	Fr	Ely
Langabaugh, Ethel L.	A&S	Jr	Henderson
Longfield, Eugene B.	A&S	Fr	Reno
Longwill, Joyce Y.	A&S	So	Poulsbo, Wash.
Lorenz, Florence	A&S	Fr	Fernley
Lothrop, Dolores Lee	A&S	Fr	Reno
Louis, George A.	A&S	Fr	New York, N.Y.
Luce, Darrell D.	A&S	Fr	Las Vegas
Luchessi, Richard	ME	Fr	San Jose, Calif.
Luff, Walter D.	A&S	So	N. Hollywood, Calif.
Lund, Richard	A&S	Fr	Mesquite
Lundergreen, Betty M.	A&S	Fr	Gardnerville
Lundgren, Joyce E.	A&S	So	Babbitt
Lynch, James F., Jr.	CE	Fr	Elko
Lynch, Robert M.	A&S	Fr	Elko
Macauley, Thomas R.	EE	Fr	Reno
Mack, Robert C.	A&S	So	Reno
Mackrides, William	A&S	So	Philadelphia, Pa.
Madsen, Constance L.	A&S	Fr	Fallon
Madsen, Dorothy	A&S	So	Harlowton, Mont.
Madsen, Robert, III	MM	So	San Anselmo, Calif.
Maestretti, Don W.	A&S	So	Reno
Maestretti, Madlen L.	A&S	Sr	Battle Mountain
Maestretti, Marjorie L.	A&S	So	Reno
Magee, Robert F.	A&S	Fr	Reno
Mahon, Virginia	A&S	So	Birmingham, Mich.
Mainwaring, Charles	CE	So	Visalia, Calif.
Mally, William	A&S	Fr	Bridgeport, Calif.
Malone, Robert	A&S	So	Sparks
Maloney, Doris	A&S	So	Reno
Mansfield, Helen	A&S	Fr	Reno
Mantle, Evelyn B.		Gr	Sparks
Mapes, Gloria M.	A&S	Sr	Reno
Mardis, Joan	A&S	So	Reno
Marisquirena, Josephine	A&S	So	Elko
Marker, Barbara J. Mandich	A&S	So	Bishop, Calif.
Marker, Geneva May	A&S	Fr	Reno
Marker, Vaughn	CE	Sr	Fresno, Calif.
Marks, Jerome	A&S	Fr	Reno
Marlia, Theodore	A&S	Fr	Sparks
Marmor, Leonard	A&S	So	Passaic, N. J.
Marquer, Robert Andre	EE	Fr	Reno

Name	College	Classification	Home Address
Marriage, Charles	A&S	Fr.	Carson City
Marsh, Adele M.	A&S	Sr.	Reno
Marsh, James H.	A&S	Fr.	El Reno, Okla.
Marsh, Robert Greenwood	ME	Fr.	Fallon
Marsh, William R.	ME	Fr.	Fallon
Martin, Barbara	A&S	So.	Elko
Martin, Baxter F.	MM	So.	Glen Ellyn, Ill.
Martin, Hutton G.	A&S	Fr.	Reno
Martin, Rachel Edith	A&S	Fr.	Glen Ellyn, Ill.
Martin, Robert C.	CE	So.	Kenwood, Calif.
Martin, Robert G.	MM	Fr.	Imlay
Martin, William Richard	A&S	Fr.	Little Rock, Ark.
Martinelli, Ernest	A&S	Fr.	Sparks
Martinson, John E.	MM	Jr.	Park City, Utah
Marx, Anneliese	HE	Fr.	San Francisco, Calif.
Masini, Tosca Carolyn	A&S	Sr.	Sparks
Mason, Allen	A&S	Fr.	Reno
Mason, Louis Franklin	A&S	Fr.	Clinton, Iowa
Mason, Robert	A&S	Fr.	Reno
Mastroianni, Doris Rae	A&S	Sr.	San Francisco, Calif.
Mastroianni, Eugene C.		Gr.	Reno
Matcovich, Joan Andree	A&S	So.	Carson City
Mathis, Joe	MM	Sp.	Shafter, Calif.
Matteoni, Silvano J.	A&S	So.	Sparks
Matteucci, Malcom Gene	A&S	Fr.	Las Vegas
Mayo, Charles S.	EE	Fr.	Reno
McAvoy, Charles Vinton	CE	Fr.	Reno
McBride, Bettie	A&S	Jr.	Elko
McBride, Donald	A&S	Fr.	Virginia City
McBride, Emma J.	A&S	Fr.	Clovis, N. M.
McBride, Gerald J.	A&S	So.	Elko
McCabe, William L., Jr.	EE	So.	Reno
McCartney, Lyle	Ag	So.	Elko
McCloskey, Conard W.	EE	Fr.	Yerington
McClure, Robert D.	A&S	So.	Dardanelle, Ark.
McConville, Lee B., Jr.	MM	Jr.	Los Angeles, Calif.
McCormack, Robert M.	ME	Fr.	San Rafael, Calif.
McCrae, Robert G.	MM	Fr.	Hayward, Calif.
McCray, Elinore Mae	A&S	Fr.	Reno
McCuistion, Alvin C.	A&S	Fr.	Elko
McCuistion, Robert D.	A&S	Fr.	Sparks
McCulloch, John S.	EE	Fr.	Elko
McDade, Galen L.	A&S	Fr.	Reno
McDermid, Richard R.	A&S	Fr.	Reno
McDonough, Shirley Ann	A&S	Fr.	Reno
McEachern, Betty Ross	A&S	Fr.	Lovelock
McEachern, John R.	ME	Fr.	Lovelock
McElwain, Joyce	A&S	Fr.	Reno
McFadden, Albert J.	EE	Fr.	Las Vegas
McFarland, Billy Joe	A&S	Fr.	Houston, Texas
McFarland, James	A&S	Fr.	San Francisco, Calif.
McFarland, Melba	A&S	Sr.	Reno

Name	College	Classification	Home Address
McFarlane, Margaret	A&S	Fr.	Sacramento, Calif.
McGee, Clara Belle	A&S	Jr.	Reno
McGowan, Lawrence S.	CE	Fr.	Hawthorne
McGowan, Roger J.	A&S	Fr.	Hawthorne
McGrath, James L.	A&S	Fr.	Reno
McGuire, Raymond A.	A&S	Jr.	Reno
McInnis, Joan	A&S	Fr.	Reno
McKenna, Charles P., Jr.	ME	Sp.	Fairfax, Va.
McKenzie, John A., Jr.	CE	Fr.	Reno
McKernon, Hellen Porter	A&S	Sp.	Reno
McKissick, Howard F., Jr.	A&S	Fr.	Reno
McLeod, Charles Edison	A&S	So.	Crestview, Fla.
McMichael, Junerwanda	A&S	So.	Reno
McNeil, Rachel Ann	A&S	Sr.	Sparks
McNeilly, Daryl William	Ag	So.	Reno
McNeilly, Harold Dean	Ag	So.	Reno
McQueen, Effie J.	A&S	So.	Reno
McQuerry, Marvin Elliott	EE	Fr.	Reno
McQuerry, William LeRoy	A&S	Fr.	Reno
McVey, Phillip B.	Ag	Sp.	Reno
Meacham, Warren Edgar	CE	Fr.	Bishop, Calif.
Means, Jack Abbott	CE	Fr.	Reno
Means, Lawrence	CE	Fr.	Reno
Mecham, Ferris J.	CE	Fr.	Virginia City
Meffley, Richard W.	CE	Jr.	Graeagle, Calif.
Meiser, Vernon Melville	CE	Fr.	Reno
Melarkey, James Edward	CE	Sr.	Reno
Melner, Sinclair Lewis	A&S	Jr.	Reno
Mendive, Steve Louis	CE	Fr.	Battle Mountain
Menke, Eugene Monroe	EE	So.	Reno
Mentaberry, Fausto V.	A&S	So.	Winnemucca
Mentaberry, Henry Paul	A&S	So.	Winnemucca
Menu, Glen Eugene	EE	Fr.	Reno
Menu, Marjorie Jean	A&S	Jr.	Reno
Meredith, Thomas K.	CE	Fr.	Reno
Merwin, Shirley June	A&S	Fr.	Clarksburg, Calif.
Metcalfe, John	MM	Fr.	Reno
Metrulis, Robert J.	EE	Fr.	Shenandoah, Pa.
Metzker, Donald J.	A&S	Fr.	Reno
Metzger, Ruth	A&S	Fr.	Reno
Meyer, Robert I.	A&S	Sr.	Costa Mesa, Calif.
Michael, John H.	A&S	So.	Sacramento, Calif.
Micheo, Alice F.	A&S	Fr.	Gardnerville
Mickelson, Merton M.	A&S	So.	Fallon
Middleton, Edgar W.	MM	Fr.	Sparks
Milburn, John F.	A&S	Fr.	Philadelphia, Pa.
Miles, Charles H., Jr.	A&S	Fr.	Las Vegas
Miles, Richard L.	A&S	Fr.	San Pablo, Calif.
Millard, Addison	A&S	Sr.	Carson City
Miller, Eldora T.	A&S	Fr.	Winnemucca
Miller, Florene	A&S	Sr.	Reno
Miller, James H.	A&S	Fr.	Gardnerville

Name	College	Classification	Home Address
Miller, Jo'Ann C.	A&S	Sr.	Portland, Ore.
Miller, John R.	A&S	So.	Carson City
Miller, Luther W.	A&S	Fr.	Carson City
Miller, Marjorie	A&S	Sp.	Carson City
Miller, Oliver	A&S	Fr.	Reno
Miller, Richard Grant	A&S	Sp.	Reno
Miller, Robert F.		Gr.	Carson City
Miller, Robert W.	EE	Fr.	Lovelock
Miller, Wendell A.	CE	Fr.	Reno
Millinger, Jack L.	EE	Fr.	Sparks
Mills, Barbara	A&S	Sr.	Fallon
Mills, Gene	A&S	Fr.	Minden
Mills, Robert B.	ME	Fr.	Reno
Mills, Richard K.	A&S	Fr.	Reno
Milovich, Dan M.	A&S	Fr.	Kimberly
Minor, Beverly J.	A&S	Jr.	Winnemucca
Minor, Lyle R., Jr.	A&S	Fr.	Winnemucca
Mirabelli, Michael A.	A&S	Fr.	Las Vegas
Miramon, Alfred, Jr.	Ag	Fr.	Reno
Mirci, Joseph	A&S	Fr.	Caliente
Miskulin, Charles Henry	A&S	Fr.	Kimberly
Mitton, Charlotte H.	A&S	Sp.	Reno
Moell, James Laban	A&S	Fr.	Elko
Moffat, Patricia	A&S	Fr.	Reno
Molignoni, Bonny Louise	A&S	So.	Reno
Monaghan, James Emmett	A&S	Fr.	Reno
Monroe, Lucille	A&S	Fr.	Las Vegas
Montero, Helen	A&S	Fr.	Winnemucca
Montgomery, John D.	A&S	Fr.	Elko
Montgomery, Norma Joyce	A&S	Fr.	Hawthorne
Montgomery, Thomas Hugh	A&S	Sr.	Reno
Montrose, Marjorie Lee	A&S	Fr.	Elko
Moody, Norma	A&S	Fr.	Hawthorne
Moore, David S.	A&S	Sp.	Carmel, Calif.
Moore, Edith Maxine	A&S	So.	Winnemucca
Moore, Frank Charles	MM	Jr.	Searchlight
Moore, Joseph Eli, Jr.	A&S	Fr.	Winnemucca
Moore, Paul, Jr.	A&S	Fr.	Imlay
Moore, Robert E.	CE	Fr.	Reno
Moore, Virginia King	A&S	Sp.	Reno
Morehead, Henry I.	ME	Sr.	San Gabriel, Calif.
Morgans, Ann	A&S	Fr.	Reno
Morita, Shinji Joseph	A&S	Fr.	Las Vegas
Morley, Ernest Floyd	A&S	Fr.	Ely
Morrice, Edward, Jr.	MM	So.	Sacramento, Calif.
Morris, Donald H.	A&S	Sp.	Golden, Colo.
Morris, James Mervyn, Jr.	CE	Jr.	Sacramento, Calif.
Morris, Joel	MM	So.	Van Nuys, Calif.
Morris, Nora	A&S	Jr.	Tonopah
Morris, William Wesley	A&S	Fr.	San Diego, Calif.
Morrison, Darrol Hugh	A&S	So.	Eureka
Morrison, Robert A.	A&S	Fr.	Reno

Name	College	Classification	Home Address
Morrow, James Leslie	EE	Fr.	Deeth
Morsberger, Paul Ellsworth	A&S	Fr.	Reno
Mortara, Rita Rena Angela	A&S	Fr.	Reno
Morton, Robert	A&S	Fr.	Reno
Mow, LeRoy	ME	Jr.	San Francisco, Calif.
Mowry, Elwood Barton	A&S	Fr.	Salt Lake City, Utah
Moylan, William R.	A&S	Fr.	Peoria, Ill.
Muguira, Dorothea	A&S	Fr.	Reno
Muguira, Evelyn Angela	A&S	Fr.	Reno
Muguira, Frances	A&S	Jr.	Reno
Mulcahy, Edwin Charles	A&S	Sr.	Sparks
Mulert, Howard M.	A&S	Fr.	Pittsburgh, Pa.
Muller, Leopold Frederic	MM	Fr.	Carson City
Munk, Jerry	EE	Fr.	Lovelock
Munley, Emmett	A&S	Fr.	Reno
Munley, John Harold	A&S	Fr.	Reno
Munn, Jacqueline	A&S	Fr.	Reno
Munn, Richard E.	A&S	Fr.	Reno
Munter, Weldon	A&S	Fr.	Stewart
Murdough, Charles E.	A&S	Fr.	Reno
Murphy, Bernardina	A&S	Fr.	Carson City
Murphy, Frederick	MM	Fr.	Reno
Murphy, Harold D.	A&S	So.	Wells
Murphy, Harold R.	A&S	Sp.	Peoria, Ill.
Murphy, John Jay	A&S	Jr.	Reno
Murray, Matthew T., Jr.	A&S	So.	Kew Gardens, N.Y.
Murray, William Carl	MM	Fr.	Forest City, Pa.
Musselman, Jack Andrew	A&S	So.	Ft. Lauderdale, Fla.
Mustard, Donald L.	ME	Fr.	Fallon
Myers, Gloria Richards	A&S	So.	Reno
Myers, Robert T.	A&S	So.	Reno
Mygatt, Peter	A&S	So.	Los Angeles, Calif.
Nannini, Florindo		Gr.	Reno
Nannini, Louis George	ME	Fr.	Golconda
Nannini, Rose Marie	A&S	Sr.	Reno
Nash, Jean	A&S	Fr.	Las Vegas
Nash, William Frank	MM	Fr.	Chicago, Ill.
Naveran, Angela Gloria	A&S	Fr.	Battle Mountain
Neal, Marilyn J.	A&S	Fr.	Winnemucca
Neddenriep, Chris Gerald	A&S	Fr.	Gardnerville
Nellis, Beverly Jean	A&S	Fr.	Boulder City
Nellis, Harold E.	MM	So.	Boulder City
Nelson, George Robert	A&S	Fr.	Reno
Nelson, Orville J.	A&S	So.	Reno
Nelson, Robert M.	A&S	So.	Kirkland, Wash.
Nichols, Ward William	A&S	Sr.	Reno
Nielsen, Joyce Winifred	A&S	Jr.	Reno
Nielsen, Marion	A&S	Fr.	Reno
Nielson, Shearl G.	A&S	Fr.	Boulder City
Nishiguchi, Roy J.	EE	So.	Reno
Nojima, Tetsuo Roy	MM	So.	Elko
Nolan, Robert Lloyd	MM	Fr.	Gardena, Calif.

Name	College	Classification	Home Address
Nord, Earnest W.	ME	Fr.	Minneapolis, Minn.
Norris, Eleanor Kathleen	A&S	So.	Berkeley, Calif.
Nugent, William	CE	Fr.	Sparks
Nunn, Robert G.	A&S	Fr.	Overton
O'Brien, Leo M., Jr.	A&S	Sp.	Herlong, Calif.
O'Connell, Richard Kevin	A&S	Jr.	Milton, Mass.
O'Hagan, Donald H.	CE	Jr.	Portland, Ore.
Okholm, Harold C.	A&S	Fr.	San Leandro, Calif.
Olesen, Barbara Ann	A&S	Jr.	Lovelock
Olesen, Virginia	A&S	Sr.	Lovelock
Olguin, Daniel J.	A&S	So.	Sparks
Olinghouse, Kenneth R.	ME	So.	Pioche
Olmsted, Roger R.	A&S	So.	Truckee, Calif.
Olsen, Norman D.	EE	Fr.	Reno
Ornas, George J.	A&S	So.	San Francisco, Calif.
Orr, John A.	A&S	Fr.	Pioche
Orrock, Thomas H.	EE	So.	Pioche
O'Shaughnessy, Robert A.	A&S	Jr.	Oakland, Calif.
Osmun, Marvin	Ag	Sp.	Imlay
Oswald, Marcella	A&S	Sp.	Reno
Ott, Emil Joachim N.	A&S	Fr.	Sacramento, Calif.
Owen, Henry J.	EE	Jr.	Beech Grove, Ark.
Oxborrow, Elwood A.	Ag	So.	Hiko
Oyarbide, Pela Adele	A&S	So.	Battle Mountain
Packard, William D.	MM	Fr.	Sacramento, Calif.
Paglia, Lawrence A.	CE	Sr.	Petaluma, Calif.
Paille, Harry D.	A&S	Sr.	Reno
Palmer, Robert A.	A&S	Fr.	Rochester, N. Y.
Panelli, Giulio C.	ME	Fr.	Verdi
Papaeliou, Vasilios	A&S	Fr.	Greece
Paraskeva, Sophia		Gr.	Thessaloniki, Greece
Pardee, Barbara J.	A&S	Fr.	Sacramento, Calif.
Parker, Girard	A&S	So.	Reno
Parker, John		Gr.	Reno
Parker, Patricia	A&S	Sp.	Reno
Parodi, Maryrose L.	HE	Sp.	Petaluma, Calif.
Paterson, Robert A.	A&S	So.	Reno
Patrick, Robert L.	ME	Fr.	Reno
Patterson, Doris	A&S	Jr.	Dyer
Patterson, John W.	Ag	Fr.	Lamoille
Patti, John A.	A&S	So.	Girard, Ohio
Paul, Dana Rae	A&S	Fr.	Reno
Payne, Evelyn A.	A&S	Sr.	Reno
Pearce, Robert H.	A&S	So.	Elko
Peckham, Donald Edward	A&S	Fr.	Reno
Peirson, James	EE	Fr.	Inyokern, Calif.
Pelizzari, John R.	A&S	So.	Reno
Pelter, William M.	ME	Fr.	Reno
Peltier, Robert L.	EE	Fr.	Wells
Pelton, Clifford L.	MM	Fr.	Claremont, Calif.
Percy, Joyce V.	A&S	Jr.	Reno

Name	College	Classification	Home Address
Perkins, Jane	A&S	Sr.	Tonopah
Perondi, Oliver	ME	Fr.	Dayton
Persigehl, Richard	CE	Fr.	Tonopah
Peters, Ray C., Jr.	A&S	Fr.	Sparks
Petersen, Constance	A&S	Sp.	Reno
Petersen, Jacquelyn	A&S	Jr.	Reno
Petersen, Roy M.	A&S	Fr.	Reno
Peterson, Ellis	EE	Sr.	Sebastopol, Calif.
Peterson, Joel L., Jr.	ME	Sp.	Reno
Pettis, Alice L.	A&S	Fr.	Reno
Pettis, Ethel	A&S	Jr.	Reno
Peyron, Maurice P.	A&S	So.	Pocatello, Idaho
Phalen, John P.	A&S	Fr.	Peoria, Ill.
Phelan, Phyllis E.	A&S	Fr.	Alturas, Calif.
Phillips, Edward A.	A&S	So.	Blacksville, W. Va.
Phillips, John W.	A&S	Sr.	Boulder City
Phillips, Ruth E.	A&S	Fr.	Henderson
Phillips, Wendell J.	MM	So.	Stockton, Calif.
Piccinini, Richard B.	EE	Fr.	Carlin
Pichens, Carolyn J.	A&S	Fr.	Reno
Pico, Louis C., Jr.	EE	So.	Las Vegas
Pico, Ronald E.	EE	Fr.	Las Vegas
Picollo, Marvin E.	A&S	Fr.	McGill
Pierce, J. Dean	A&S	Fr.	Fallon
Piersall, Ernest A.		Gr.	Reno
Pierson, Suzanne M.	A&S	Fr.	Sacramento, Calif.
Pilkington, Dorothy	A&S	Jr.	Reno
Pincolini, Gloria	A&S	Fr.	Reno
Pinjuv, George I.	A&S	Sp.	Las Vegas
Plimpton, Irene R.	A&S	Fr.	Gardnerville
Plummer, Elmer	EE	Fr.	Reno
Pohlman, Genevieve		Gr.	Scottsbluff, Nebr.
Polish, Fred J.	A&S	Fr.	Yerington
Pontecorvo, Anthony B.	ME	So.	New York, N. Y.
Pope, Girdwood C.	MM	Fr.	Alameda, Calif.
Popp, Louis J.	A&S	So.	Steubenville, Ohio
Porteous, Marvin F.	MM	Sr.	Reno
Porter, James W.	MM	Fr.	Las Vegas
Porter, Louis K.	MM	Fr.	Las Vegas
Porter, Robert D.	EE	Fr.	Reno
Potts, George	Ag	Jr.	Reno
Poulakidas, Nick	A&S	Fr.	Kimberly
Prane, Genevieve	A&S	Fr.	Chicago, Ill.
Pressell, Mildred	A&S	Sp.	Reno
Price, Jacqueline	A&S	Fr.	Susanville, Calif.
Price, Michael A.	MM	Sp.	Los Angeles, Calif.
Price, Milo V.	A&S	So.	Jarbidge
Pridgen, Glenn	A&S	Fr.	Ft. Lauderdale, Fla.
Prina, Elmer	MM	Fr.	Eureka
Pringle, John A., Jr.	A&S	Fr.	Reno
Proctor, Jean M.	A&S	Jr.	Kimberly
Prugh, Walter H.	MM	Fr.	San Francisco, Calif.

Name	College	Classification	Home Address
Pruitt, Robert L.	A&S	Fr.	Montello
Puddington, Georgie Anna	A&S	Fr.	Reno
Puddington, Rosemary	A&S	Fr.	Reno
Purdy, Clyde R.	A&S	Fr.	Sparks
Pursell, Richard E.	A&S	Fr.	Las Vegas
Pursell, William L. A.	A&S	Fr.	Las Vegas
Quackenbush, Marie	A&S	Fr.	Reno
Quackenbush, Marlowe H.	Ag	So.	Chamberlain, S. D.
Quackenbush, Maynard D.	EE	Fr.	Chamberlain, S. D.
Radovich, Robert	A&S	Fr.	Reno
Raggio, William J., Jr.	A&S	Fr.	Reno
Rahbeck, Franklin K., Jr.	A&S	Fr.	Gardnerville
Ramasco, Daniel	A&S	Fr.	Paradise Valley
Ramelli, Donald E.	Ag	So.	Reno
Ramelli, Theodore Ward	Ag	Fr.	Vinton, Calif.
Rand, Rachel Susanna	A&S	Jr.	Palisade
Rankin, Robert John	MM	Fr.	New York, N. Y.
Ranson, Joseph H.	ME	Fr.	Sparks
Rassuchine, Alex V.	A&S	Fr.	Reno
Rastelli, Joe Martin	ME	Fr.	Reno
Rau, Lucille A.	A&S	Fr.	Reno
Ravve, Abraham		Gr.	Los Angeles, Calif.
Ray, Barbara LaVone	A&S	Sr.	Caliente
Ray, Donald Bradford	A&S	So.	Caliente
Ray, Jane	A&S	Fr.	Caliente
Read, Patricia	A&S	So.	Sacramento, Calif.
Read, Robert K.	A&S	Fr.	Carson City
Reading, George Edward	A&S	Fr.	Carson City
Reece, Mary Gayle	A&S	Sp.	Reno
Reed, Edward Cornelius	A&S	So.	Reno
Reese, L. Stanford	A&S	So.	Reno
Reeves, Lois Francis	A&S	Jr.	Babbitt
Reeves, Robert G.	MM	So.	Placerville, Calif.
Reifschneider, Olga A.	A&S	Jr.	Reno
Reimers, Earl Raymond	CE	Fr.	San Leandro, Calif.
Reinero, Edith McNeilly	A&S	Fr.	Reno
Reinken, William	MM	Fr.	Reno
Revene, Joseph	A&S	Sp.	Bronx, N. Y.
Reynolds, Marillyn	A&S	Jr.	Sacramento, Calif.
Reynolds, Ralph Edwin	A&S	Fr.	San Francisco, Calif.
Rice, Betty Ann	A&S	So.	Reno
Rice, Daniel A.	EE	Jr.	Reno
Rice, Kenneth T., Jr.	ME	Fr.	Reno
Rice, Thomas Ramsey	Ag	Sr.	Reno
Richards, Eric Leonard	A&S	So.	Reno
Richards, Glen	EE	Fr.	Reno
Richards, Paul A.	A&S	Fr.	Reno
Richardson, Albert Edward	A&S	Fr.	Reno
Ricker, George E.	A&S	Jr.	Reno
Ricketts, Dace Jewel	HE	Sr.	Yerington
Ricketts, Rex Allen, Jr.	MM	Jr.	Yerington

Name	College	Classification	Home Address
Rigby, William George	EE	Fr.	Canoe, Ala.
Riggle, Carl Clayton	EE	Fr.	Sparks
Riggle, Walter Raymond	ME	Sr.	Sparks
Riggs, Homer Lynn	A&S	So.	Salt Lake City, Utah
Riggs, Maurice		Gr.	Carson City
Riley, Carol	A&S	Sr.	Elk Grove, Calif.
Riley, Clement Dee	Ag	Fr.	Reno
Riley, David	A&S	Sp.	Bronx, N. Y.
Riley, Ellen	A&S	So.	Yerington
Riley, Linford Dale, Jr.	A&S	So.	Yerington
Riley, Olga Jeanne	A&S	Sp.	Bronx, N. Y.
Risard, Martin Hector, Jr.	A&S	Sp.	Reno
Rittenhouse, Franklin	A&S	So.	Las Vegas
Robbins, John A.	EE	Fr.	Pioche
Roberts, Allen Earl, Jr.	A&S	Fr.	Reno
Roberts, Jerry Milton	EE	So.	Reno
Robins, Frank W.	A&S	Fr.	Winnemucca
Robinson, Carl	A&S	So.	Visalia, Calif.
Robinson, Hampden Sidney	A&S	Fr.	Reno
Robinson, Nancy Jane	HE	Jr.	Chicago, Ill.
Rockholm, Norman Waldo	A&S	Sr.	Naper, Nebr.
Rockwell, Arthur Lester, Jr.	A&S	So.	Paso Robles, Calif.
Rogers, Allen S.	MM	So.	Berkeley, Calif.
Rogers, Lloyd Alby	A&S	Jr.	Reno
Rogers, Will	A&S	Fr.	Reno
Roggenkamp, Bethel S.	A&S	Fr.	Reno
Rollins, William Arthur	A&S	Fr.	Reno
Root, Helene	A&S	Fr.	Reno
Root, Lloyd Leo, Jr.	MM	Jr.	Reno
Rosaschi, Gloria	A&S	Sr.	Reno
Roscoe, John G.	MM	So.	Nevada City, Calif.
Rose, Harvey Noel	A&S	Fr.	Reno
Rose, James Lee	A&S	Fr.	Boulder City
Rose, Joanne	A&S	Fr.	Boulder City
Rosenberry, Charlotte D.	A&S	Fr.	Reno
Rosenthal, Briguitta	A&S	Sp.	Reno
Ross, Patricia E.	A&S	So.	Henderson
Rotholtz, Adelyn	A&S	Gr.	Reno
Roush, Lyle A.	A&S	Sr.	Sloan
Rovetti, Harry D.	A&S	Fr.	Reno
Rovetti, Melvin G.	A&S	So.	Reno
Rowe, Thomas Joseph, Jr.	A&S	So.	Oakland, Calif.
Rowley, Janeth Arvilla	A&S	Jr.	Sparks
Rowley, Richard	A&S	Fr.	Reno
Rude, Lloyd E.	A&S	Sp.	Sparks
Rude, Robert LeRoy	A&S	Fr.	Sparks
Ruskauff, Patricia A.	Ag	Fr.	Riverside, Calif.
Russell, Ruth		Gr.	Reno
Ryan, Bill C.	A&S	Fr.	Las Vegas
Ryan, James A.	ME	So.	Reno
Sadler, Patricia	A&S	So.	Reno

Name	College	Classification	Home Address
Sala, Frank J., Jr.	ME	Fr.	Reno
Salemi, Paul J.	A&S	Sp.	Reno
Saling, Milo P.	A&S	Fr.	Reno
Salter, Thomas	EE	Sr.	Las Vegas
Samuelson, Shirley (Mrs.)		Gr.	Reno
Sanchez, John	A&S	Fr.	Ely
Sancic, Charles S.	A&S	Fr.	Kent, Ohio
Sanderson, Ida Bess	A&S	Fr.	Elko
Sanford, Gertrude H.	HE	Fr.	Reno
Sarasua, Robert	A&S	Fr.	Reno
Sarff, Edward E.	EE	Sp.	Petersburg, Alaska
Sarff, Nacita L.	A&S	Sp.	Reno
Sasenbery, Homer G.	CE	Sp.	Carson City
Saulisberry, Charles	Ag.	Fr.	Chicago, Ill.
Saunders, Edward E.	A&S	Fr.	Winnemucca
Saunders, Nora L.	A&S	So.	Winnemucca
Saval, J. Marian	A&S	Sr.	Battle Mountain
Savidge, David	A&S	Fr.	Morgan Hill, Calif.
Saviers, Phyllis K.	A&S	So.	Reno
Savini, Sam	A&S	Fr.	Yerington
Sawyer, John	A&S	Fr.	Reno
Scanlon, Margaret	A&S	Fr.	Reno
Scarselli, Gene L.	A&S	Jr.	Reno
Schaad, Carlyle	A&S	Fr.	Seneca, Ill.
Scheeline, Evelyn	A&S	So.	Reno
Schindler, Cecilia D.	A&S	So.	Sparks
Schmidt, Joseph	EE	Fr.	Reno
Schooley, Wilma	A&S	So.	Reno
Schultz, James A.	A&S	Sr.	Reno
Schulz, Martha A.	A&S	So.	Norwalk, Calif.
Schulz, Wallace W.	A&S	So.	Westwood, Calif.
Schuyler, Romola	A&S	Jr.	Reno
Schwartz, Lyman	A&S	So.	Paradise Valley
Schwartz, Mary Ellen	A&S	Sr.	Goodsprings
Scoffield, Ray F.	CE	Fr.	Napa, Calif.
Scott, Edward St. Clair	MM	Jr.	Santa Ana, Calif.
Scott, Elizabeth	A&S	Fr.	Reno
Scott, James	MM	Sp.	Reno
Scott, Jean D.	HE	Jr.	Tulelake, Calif.
Scott, Robert G.	MM	So.	Berkeley, Calif.
Sears, William Douglas	EE	Fr.	Boulder City
Seddon, Elizabeth	A&S	Jr.	Smith
Sedway, Marvin Mark	A&S	Fr.	Las Vegas
Sewell, Dorothy Katherine	A&S	Jr.	Reno
Sewell, Mary Louise	A&S	Fr.	Reno
Shannon, Robert Edward	A&S	Fr.	Carson City
Sharkey, Edward	A&S	Fr.	Brooklyn, N. Y.
Sharp, Melvin V.	A&S	Fr.	Boulder City
Shaver, Lois Marienne	A&S	Fr.	Las Vegas
Shaw, Helen Catherine	A&S	Sr.	Goldendale, Wash.
Shaw, Kenneth Allen	A&S	Fr.	Richmond, Calif.
Shaw, Rondell B.	EE	So.	Reno

Name	College	Classification	Home Address
Shaw, Virginia	HE	Fr.	Reno
Shawe, Cora Lee	A&S	So.	Gardnerville
Shawe, Fred Rhodes	EE	Fr.	Gardnerville
Shayotovich, Edward D.	A&S	Fr.	Gary, Ind.
Shepard, Patricia Ruth	A&S	Fr.	Sparks
Shepard, William Edward	A&S	Fr.	Henderson
Sheperth, William Charles	A&S	Fr.	Pocatello, Idaho
Sherman, Ted Theo	Ag	Sp.	Reno
Sherwood, William H.	A&S	So.	San Francisco, Calif.
Shewan, William Henry	CE	Sr.	Carson City
Shields, Charles L.	ME	Fr.	Tonopah
Short, Carl	A&S	So.	Sparks
Short, Charles Robert	EE	So.	Reno
Shrider, Donald Osborne	ME	Fr.	Silver Peak
Shultz, J. Gordon, Jr.	Ag	So.	Sacramento, Calif.
Siferd, Charles Dean	Ag	Fr.	Lima, Ohio
Simmons, June	A&S	Fr.	Boulder City
Simmons, Stanley C.	Ag	Fr.	La Canada, Calif.
Simon, Marjorie M.	A&S	So.	Reno
Simoni, Frank Y.	A&S	So.	Reno
Simons, John P.	MM	Fr.	San Diego, Calif.
Simpson, John	MM	Fr.	Goldfield
Singleton, Robert A.	A&S	Sr.	Sparks
Sinofsky, Kenneth J.	A&S	So.	E. Rutherford, N. J.
Slee, Bessie Lou	A&S	So.	Brawley, Calif.
Sloan, Jane Ann	HE	So.	Oakland, Calif.
Sloan, Loran G.	MM	Fr.	Covina, Calif.
Smales, Donald W.	A&S	Fr.	Elko
Smales, John F.	CE	Fr.	Elko
Smales, Joseph G.	A&S	Fr.	Elko
Small, James G.	A&S	So.	Johnstown, Pa.
Smart, Clyde S., Jr.	CE	So.	San Francisco, Calif.
Smart, D. Andrea	A&S	Fr.	Reno
Smart, Donald	Ag	Fr.	Reno
Smart, Stanley H.	A&S	Sp.	Reno
Smiley, Muriel E.	A&S	Fr.	Wells
Smiley, William G.	Ag	So.	Deeth
Smith, Alfred J.	A&S	So.	Sparks
Smith, Alva E.	A&S	Fr.	La Grange, Ill.
Smith, Barbara Irene	A&S	Fr.	Sparks
Smith, Carol	HE	Sr.	Fallon
Smith, Carlton S.	A&S	Jr.	La Grange, Ill.
Smith, Charles H.	A&S	Fr.	Reno
Smith, Earl	EE	Fr.	Truckee, Calif.
Smith, Eldon E.	A&S	Fr.	Reno
Smith, George E.	A&S	Fr.	Reno
Smith, Gertrude	A&S	Fr.	Truckee, Calif.
Smith, James T.	A&S	Fr.	Palo Alto, Calif.
Smith, Janet H.	A&S	Fr.	East Ely
Smith, John W.	CE	So.	Vallejo, Calif.
Smith, LaMar R.	A&S	Fr.	Fallon
Smith, Leslie Hamilton	A&S	Fr.	Las Vegas

Name	College	Classification	Home Address
Smith, Peter M., Jr.	A&S	Sp	Reno
Smith, Robert Alfred	A&S	Fr	Del Paso Heights, Ca
Smith, Susan	A&S	So	Los Angeles, Calif.
Smithson, Richard	EE	Fr	Berkeley, Calif.
Snider, Kenneth H.	EE	Fr	Truckee, Calif.
Snook, Dorothy Marie	A&S	Fr	Auburn, Calif.
Snyder, Orrin E.	A&S	Sp	Reno
Snyder, Willard Fiske	MM	Fr	Pioche
Sodja, William M.	ME	Jr	Tooele, Utah
Solt, Richard	A&S	Sr	Perth Amboy, N.J.
Sommer, Charles R.	EE	So	Reno
Sorensen, Arlene Marie	A&S	Jr	Reno
Soernson, Della	A&S	So	Reno
Spencer, Wallace Duane	MM	Fr	Ruth
Spitz, Louis P.	A&S	Jr	Reno
Spoon, David John	ME	Fr	Paradise, Calif.
Sprague, Charles W.	Ag	Fr	Overton
Sprague, Florence	A&S	Sp	Mt. Kisco, N. Y.
Sprague, Neal Allison	A&S	So	Aurora, Ill.
Sprague, Paul M.	A&S	Fr	Las Vegas
Sprout, Eugene Clifford	CE	Fr	Sparks
Stafford, Victor Haig	MM	Sp	Canton, Ohio
Staley, Norman Mack	CE	Fr	Reno
Standish, Jesse Edward	MM	So	Evansville, Ind.
Stanfield, Barbara Adeline	A&S	Fr	Battle Mountain
Steel, Miles, Jr.	ME	So	Palo Alto, Calif.
Steele, Gladys A.	A&S	Fr	McCurtain, Okla.
Steele, Robert P.	MM	So	Winsper, Idaho
Stefek, John Arthur	A&S	Fr	Gary, Ind.
Sterling, Kay	A&S	So	Lovelock
Stern, Leonard J.	MM	So	San Francisco, Calif.
Stever, John	A&S	So	Reno
Stewart, Anna Lu	HE	So	Reno
Stewart, Caryl Lucinda	HE	So	Alamo
Stewart, Dorothy	A&S	Fr	Alamo
Stewart, Ethel Louise	HE	Fr	Alamo
Stewart, Henry	A&S	So	Lovelock
Stewart, Kenneth N.	Ag	Sr	Alamo
Stewart, Theron D.	CE	Sr	Reno
Stewart, Velma Heaton	A&S	Jr	Reno
Stichter, Ryel	EE	Fr	Reno
Stoops, William M.	EE	Fr	Kimberly
Storey, Grace M.	A&S	Fr	Las Vegas
Story, George	EE	Fr	Esparto, Calif.
Straka, Eugene B.	Ag	Fr	Bridgeville, Penn.
Strang, Robert C.	A&S	Fr	Reno
Stratton, John	Ag	So	Reno
Streeter, Richard Lee	EE	Fr	Sparks
Strehlow, Phyllis	A&S	So	Owanka, S. D.
Streshley, Leroy A.	Ag	Sr	Austin
Stuck, Raymond Lewis	A&S	Fr	Lodi, Calif.
Sturgill, Doris	A&S	Sp	Reno

Name	College	Classification	Home Address
Subda, John Stanley	A&S	Fr.	E. Rutherford, N. J.
Sullivan, Gerald James	A&S	Fr.	Elko
Sullivan, John Joseph	MM	Fr.	Elko
Sullivan, Lawrence M.	A&S	Sp.	Reno
Sullivan, Nancy	A&S	So.	Lovelock
Sullivan, Robert Victor	A&S	Fr.	Aliceville, Ala.
Sullivan, Timothy Paul	EE	Fr.	Reno
Summers, Maclin Butler	A&S	Fr.	Reno
Sumner, Frances Beatrice	A&S	Jr.	Hayward, Calif.
Sumner, Robert Charles	A&S	So.	Hayward, Calif.
Sutton, Jeanne Adrian	A&S	Jr.	Reno
Sutton, Kay Parker	A&S	Fr.	Reno
Sutton, Phyllis	A&S	Sp.	Tulelake, Calif.
Swanson, Harry Brooks, Jr.	A&S	Fr.	Reno
Swain, Robert Loche	MM	Jr.	San Marino, Calif.
Swany, Frank	A&S	Sp.	Richmond Hill, N. Y.
Swartz, Carl		Gr.	Martinez, Calif.
Swartz, Forest K.	A&S	So.	Sacramento, Calif.
Sweatt, Eleanor	A&S	Fr.	Reno
Sweatt, John William	A&S	Sr.	Reno
Swedenborg, Jack E.	A&S	Fr.	McGill
Sweeney, Elizabeth Marie	A&S	Fr.	McGill
Sweeney, Eileen	A&S	So.	Boulder City
Sweeney, Morgan James, Jr.	A&S	Fr.	Boulder City
Swenson, Marjorie	A&S	Jr.	Fallon
Swick, Genevieve	A&S	Jr.	Eureka
Swingle, Harold R.	MM	Sr.	Silver City
Swobe, John	A&S	Fr.	Reno
Swope, Anna Louise		Gr.	Reno
Talcott, Donald Clinton	A&S	Fr.	West Point, Calif.
Talley, Fred L., Jr.	CE	So.	Paris, Tenn.
Tallia, John P.	ME	Jr.	Sutter Creek, Calif.
Tallman, Marjorie	A&S	Fr.	Reno
Tannenbaum, Bert	A&S	Jr.	New York, N. Y.
Tanner, Richard	A&S	Fr.	Carlin
Tarble, Richard Douglas	A&S	So.	Azusa, Calif.
Tarlow, Haskell	A&S	Sr.	Reno
Taverna, Rose		Gr.	Reno
Tavernia, Marilyn Jeane	A&S	Fr.	Sparks
Taylor, Bonnie Lou	HE	Fr.	Henderson
Taylor, James	A&S	Fr.	Reno
Taylor, Marrium Anne	A&S	So.	Reno
Taylor, Robert A.	ME	So.	Riverside, Calif.
Teipner, James Woods, Jr.	EE	Sr.	Reno
Temonoff, Mickey	A&S	Fr.	Marianna, Pa.
Teske, Alice	A&S	Fr.	Reno
Therkelsen, Edward	MM	Fr.	Hawthorne
Thobois, Frances A.	A&S	Fr.	Reno
Thomas, Carol Jean	A&S	Fr.	Sparks
Thomas, Dorothy	HE	Jr.	Tulelake, Calif.
Thompson, Carol	A&S	Jr.	Reno
Thompson, Charles Sumner, Jr.	A&S	Fr.	Las Vegas

Name	College	Classification	Home Address
Thompson, Craig Dickenson	MM	Fr.	Cumberland, Md.
Thompson, Howard Wright, Jr	A&S	Fr.	Reno
Thompson, John W., Jr.	A&S	So.	Santa Fe, N. M.
Thompson, Louise Harriet	A&S	Fr.	Hawthorne
Thompson, Lucille Margaret	HE	Fr.	Hawthorne
Thomsen, Delbert E.	A&S	Fr.	Winnemucca
Thrailkill, Joseph J.	A&S	So.	Reno
Thronson, Robert Edward	MM	Fr.	Queens Village, N. Y.
Tice, Jo Ann	HE	Fr.	Los Angeles, Calif.
Tidball, Harvey Eugene	A&S	Sr.	Reno
Tierney, James Patrick	A&S	So.	Santa Rosa, Calif.
Tieslau, Boyd Edmund	A&S	So.	Reno
Tilton, Richard	A&S	Fr.	Evansville, Ind.
Tobey, Karl D.	A&S	Fr.	Stewart
Tognoni, Hale Christopher	MM	Jr.	Eureka
Tompson, Robert		Gr.	Reno
Tonning, Kristian	CE	Fr.	Stryn, N. N.
Torgerson, Alfred John	EE	So.	Elko
Torre, Frank M.	EE	So.	Susanville, Calif.
Toruinen, John W.	Ag	Fr.	Reno
Towner, David Washburn	MM	So.	Oakland, Calif.
Trachok, Richard Matthew	A&S	Fr.	Jerome, Pa.
Tracy, Elizabeth June	A&S	Jr.	Reno
Tracy, Jerome Alden	A&S	Fr.	Reno
Trail, Douglas Howard	Ag	So.	Reno
Tranter, Damon M.	A&S	Sr.	Reno
Trathen, William Richard	A&S	So.	Grass Valley, Calif.
Traynor, Michael	A&S	Fr.	Reno
Trelease, Thomas Jarvis	A&S	Sr.	Sparks
Tribble, Willard Bruce	EE	Sp.	Rio Linda, Calif.
Trigero, Francis Walker	A&S	Fr.	Reno
Trigveiro, Anthony L.	EE	Fr.	Reno
Tripp, Walter Clifton	EE	So.	Santa Monica, Calif.
Truscott, Francis James	EE	Fr.	Placerville, Calif.
Tucker, Leland C.	CE	Sr.	Reno
Tuckett, Claude M.	A&S	Fr.	Reno
Tudor, Mathew S.	EE	So.	Thorne
Tullis, Albert Marks, Jr.	ME	Fr.	Ione, Calif.
Tullis, Marylu McPherson	A&S	So.	Sutter Creek, Calif.
Tulloch, Alice Marie	A&S	So.	Oakland, Calif.
Turner, Donald Q.	A&S	Fr.	West Orange, N. J.
Turnquist, Ellen	A&S	Sr.	East Ely
Turrillas, Margaret		Gr.	Reno
Tuttle, Laurel Parkinson	A&S	So.	Reno
Tuttle, Nona Lee	A&S	Jr.	Reno
Uecker, Robert Perry	A&S	Fr.	Reno
Uhlig, Edward R.	EE	Jr.	Riverside, Calif.
Ullom, Frances	A&S	Sr.	Las Vegas
Unsworth, Nanette	A&S	Fr.	Reno
Ussery, Huling E., Jr.	A&S	Jr.	Carlsbad, N. M.
Ussery, Patricia Glyn	A&S	Sr.	Carlsbad, N. M.

Name	College	Classification	Home Address
Vacchina, Elmer Ronald	A&S	Sr.	Reno
Van Blitter, John Donald	EE	Fr.	Reno
Van Gaasbeek, Jacquelyn		Gr.	Chicopee Falls, Mass.
Van Meter, Elaine	A&S	Jr.	Sparks
Van Meter, Shirley	A&S	Fr.	Reno
Van Slyck, Ashley	A&S	Fr.	New York, N. Y.
Varischetti, Harry Albert	MM	Fr.	Grass Valley, Calif.
Vassar, Elizabeth Hope	A&S	Fr.	Genoa
Vassar, Roscoe Kay	ME	Fr.	Genoa
Vaughan, Edwin Dore, Jr.	A&S	Fr.	Reno
Vawter, Beverley	A&S	Fr.	Reno
Veile, Grant LeGrande	A&S	Fr.	Fillmore, Utah
Vick, Gerald Edward	A&S	Fr.	Miami, Fla.
Vodneck, Joseph Allen	Ag	Fr.	Sparks
Voss, George B., Jr.	ME	Sr.	Santa Barbara, Calif.
Wagner, William Hunt	CE	Fr.	Reno
Wait, Eugene J.	A&S	Fr.	Reno
Waldman, Richard George	MM	Sr.	Las Vegas
Walker, Bernard	A&S	Fr.	Sparks
Walker, Daniel D., Jr.	A&S	So.	Las Vegas
Walker, Elizabeth Bernice	A&S	Sr.	San Francisco, Calif.
Walker, Jeanne Barbara	A&S	So.	San Francisco, Calif.
Walker, Jordan Clyde	A&S	Fr.	Reno
Walker, Robert Joel	A&S	Fr.	Fallon
Wallace, Ruth	HE	Jr.	Reno
Waller, Beverly Arthur	A&S	Fr.	Reno
Walling, Ray Jack	A&S	So.	Winnemucca
Walls, Jesse Willard	A&S	Fr.	Bainbridge, Ohio
Walter, Herbert Guy, Jr.	A&S	Fr.	Reno
Walters, Peter A., Jr.	A&S	Sp.	Bloomfield, N. J.
Wanke, Walter J.	EE	Jr.	Sparks
Ward, Frank	A&S	Fr.	Reno
Ward, Harry J.	A&S	Fr.	Reno
Wardle, Austin R., Jr.	A&S	Fr.	Tonopah
Warren, John W.	Ag	Sr.	Sparks
Warren, Lucille Anna	A&S	Fr.	Sparks
Warren, Norman F.	MM	Fr.	Elko
Warren, Robert Edward	A&S	So.	Tonopah
Washington, Lamar, Jr.	EE	Sp.	Reno
Wathen, Evelyn	A&S	So.	Reno
Wathen, Marilyn E.	A&S	Fr.	Reno
Watkins, Erin	A&S	Sp.	Reno
Waugh, Betty May	A&S	Sr.	Ely
Weaver, Paul E., Jr.	A&S	Jr.	Santa Monica, Calif.
Weber, Robert J.	ME	So.	Santa Maria, Calif.
Webster, Ralph T.	MM	Fr.	Beltrami, Minn.
Wedge, John William, Jr.	A&S	Fr.	Reno
Wehrle, James Leo	A&S	Fr.	Encinitas, Calif.
Weihe, Joseph W.		Gr.	Reno
Weir, Elizabeth	A&S	Fr.	Sparks
Weir, Geraldine	A&S	Fr.	Sparks

Name	College	Classification	Home Address
Weiss, Vera	A&S	Sp.	Reno
Welch, Rosemary	A&S	So.	Tonopah
Welin, Jacques E.	A&S	Fr.	Boone, Iowa
Welin, James Henry	A&S	Sr.	Boone, Iowa
Weller, Ross J.	A&S	So.	Reno
Wells, John E.	A&S	Fr.	Boulder City
Wells, Virginia M.	A&S	Sr.	Battle Mountain
Wells, Robert L.	A&S	Sr.	Novato, Calif.
Welsh, Warren J.	Ag	Fr.	Yerington
Wengert, Robert E.	EE	Fr.	Las Vegas
West, Thelma C. (Mrs.)	HE	Jr.	Reno
Westergard, George		Gr.	Yerington
Westover, Glen E.	CE	Sp.	El Paso, Texas
Wetzel, Gerald	A&S	So.	McLeod, Calif.
Wetzel, Robert	A&S	Fr.	McLeod, Calif.
Wheeler, Houston I., Jr.	EE	Fr.	Boulder City
Whelan, Robert J.	Ag	Jr.	Reno
Whipple, Barbara F.	HE	Sr.	Logandale
Whitaker, Raymond	CE	Sp.	Gardnerville
White, Robert	ME	Fr.	Blue Diamond
White, Roy D.	ME	So.	Loyalton, Calif.
Whitford, Fred W.	MM	Fr.	Grass Valley, Calif.
Whitmer, Philip F.	A&S	Fr.	Palo Alto, Calif.
Whitney, Roberta	A&S	So.	Los Angeles, Calif.
Whitney, Scott C.	A&S	Fr.	Reno
Whittemore, Robert G., Jr.	A&S	Sr.	Carson City
Whitworth, Betty Jane	A&S	Fr.	Reno
Whitworth, Edith	A&S	Fr.	Reno
Wilcox, Frank R., Jr.	A&S	Fr.	Caliente
Wild, Sue A.	A&S	Fr.	San Francisco, Calif.
Wilkie, Elizabeth	A&S	Sp.	Muncy, Pa.
Willaman, Phyllis LaRae	A&S	Fr.	Reno
Willcox, Jane D.	A&S	Sr.	Reno
Willett, Roger V.	A&S	So.	Sacramento, Calif.
Willhite, Gerry W.	A&S	Fr.	Fallon
Williams, Alice C.	A&S	Jr.	Elko
Williams, Anita	A&S	Fr.	Fallon
Williams, Barbara	A&S	Fr.	Sparks
Williams, Gretchen	HE	So.	San Francisco, Calif.
Williams, Howard	A&S	Fr.	Reno
Williams, James T.	A&S	Fr.	Minden
Williams, John A.	A&S	Fr.	Sparks
Williams, Kenneth C.	A&S	Fr.	Fernley
Williams, Orena	HE	Fr.	Reno
Williams, William D.	MM	So.	Minden
Williamson, Dona	A&S	Fr.	Reno
Willis, Noel O.	Ag	Sr.	Paradise Valley
Wills, Marjorie Ann	A&S	Fr.	Goldfield
Wilmert, Walter L.	A&S	Fr.	Las Vegas
Wilmoth, Floyd Troy		Gr.	Fresno, Calif.
Wilson, Ernest F.	EE	Jr.	Fallon
Wilson, Frank	A&S	Fr.	Reno

Name	College	Classification	Home Address
Wilson, James	A&S	Fr.	Philadelphia, Pa.
Wilson, Lois	A&S	Fr.	Reno
Wilson, Lucile G.	A&S	Sp.	Silver City
Wilson, Patricia Anne	A&S	So.	Las Vegas
Wilson, William	A&S	Sp.	Reno
Wilton, Gerald Mallory	A&S	Fr.	Peoria, Ill.
Wilton, Hugh, Jr.	MM	Sr.	Las Vegas
Wines, Stanley	MM	Sr.	Reno
Wines, Virginia I.	A&S	Fr.	Reno
Winkel, Chester George	A&S	Fr.	Reno
Winkelman, Ewald Clifford	Ag	Fr.	Minden
Winn, Billie Rae	A&S	So.	Beverly Hills, Calif.
Winn, Ray	EE	Fr.	Logandale
Winsor, Melvin Murkins	MM	Fr.	Panaca
Wirsching, Joseph Edward	A&S	Fr.	Reno
Wiseman, Walter J.	A&S	Fr.	Reno
Witte, John Edgar	CE	Sr.	Eureka, Calif.
Wittwer, Donna	A&S	Fr.	Reno
Wolfe, Hans R.	A&S	Sr.	Los Angeles, Calif.
Wolfe, Patricia	A&S	Fr.	Sparks
Wong, Henry	A&S	Fr.	Reno
Wood, Ardeen	A&S	Fr.	Boulder City
Wood, Fredrick, Jr.	A&S	Sr.	Reno
Wood, William Bourne	MM	Fr.	San Francisco, Calif.
Woodard, Donald A.	EE	Fr.	Sacramento, Calif.
Woodbury, Virginia	A&S	Sr.	Reno
Woodgate, Alfred Melvin	CE	Sr.	Carson City
Woodworth, Harley R.	CE	Fr.	Caliente
Woollomes, James P.	A&S	Fr.	Delano
Worlock, Jeanne	A&S	So.	Hawthorne
Wright, George R.	ME	Fr.	Mt. Shasta, Calif.
Wright, James J.	Ag	Fr.	Arthur
Wright, Walter Edwin	CE	Fr.	Winnemucca
Wulff, Jack Goodman	CE	Fr.	Sacramento, Calif.
Wyatt, Harold B.	A&S	Fr.	Cedar Springs, Va.
Wylie, Ralph F.	A&S	Fr.	Lake Tahoe, Nevada
Wyness, Gerald B.	A&S	Fr.	Boulder City
Yates, Floyd M., Jr.	EE	Fr.	Reno
Yee, Layton	EE	Fr.	Santa Barbara, Calif.
Yim, Florence	A&S	Fr.	Minden
Yim, Robert Earl	A&S	Fr.	Minden
Yori, George E.	Ag	Jr.	Reno
York, Kenneth	A&S	Fr.	Reno
Yorty, Robert B.	A&S	Fr.	Las Vegas
Youell, Nathon	A&S	Fr.	Reno
Youtz, Robert Charles	MM	Jr.	Oakland, Calif.
Yparraguirre, David	A&S	So.	Carson City
Yparraguirre, Lorin	A&S	Fr.	Carson City
Yparraguirre, Paul Charles	A&S	Sr.	Bridgeport, Calif.
Yrueta, Evelyn Dorothy	A&S	Fr.	Winnemucca
Yturbide, Bonnie	A&S	So.	Reno

Name	College	Classification	Home Address
Zang, Elizabeth Alice	A&S	Sr.	Reno
Zappettini, George	Ag	So.	Currant
Zecher, William Alfred	A&S	Fr.	Fallon
Zanklusen, William Henry	ME	Fr.	Sparks
Zimmovan, Edward P.	A&S	Fr.	Uniontown, Pa.
Zunino, June	A&S	Fr.	Reno
Zunino, Olgo L.		Gr.	Reno

Summer Session, 1946

Allard, Thomas F.....Carson City
Aloy, Leonard.....Chicago, Ill.
Amodei, Marilyn.....Reno
Anderson, Howard..St. Paul, Minn.
Anderson, Melba.....Reno
Arenaz, Rose.....Reno
Armstrong, Ruth.....Reno
Asta, Vincent.....Sacramento, Calif.
Atkinson, Evert.....Reno
Aymar, John B.....Reno
Bachelor, Mary.....Lovelock
Backus, Norman.....Reno
Baeder. Alfred.....Sparks
Baillie, Samuel A.....Reno
Baker, Claude..Santa Barbara, Cal.
Baker, John.....Yerington
Ball, Gwendoline.....Las Vegas
Barker, Ronald.....Reno
Barkley, James R.....Fallon
Barrett, Lewis.....Las Vegas
Barrios, Alberto.....Reno
Bastian, Jack R.....Reno
Beaupeurt, Edward.....Reno
Beckman, Carol.....Virginia City
Bedford, Honora.....Willows, Cal.
Beetschen, Shirley.....Reno
Behrends, Jeanne.....Trona, Cal.
Belew, William.....Sparks
Bell, Arthur.....Reno
Benedict, Helen.....Levan, Utah
Bennett, George A.....
.....Water Val., Miss.
Benson, George H.....McGill
Bernard, Jack.....Yerington
Bianchi, Marino.....Fallon
Bianchini, Gloria.....Reno
Bicknell, Lois.....Reno
Birdsall, Wallace.....Reno
Birks, Angelina.....Reno
Birks, Wilma.....Reno
Bishop, Peggy.....Reno
Bishop, Vivian.....Fallon
Black, Adele.....Tungsten
Black, Berkeley W.....Reno
Black, Lenora E.....Reno
Black, William.....Reno
Black, Winnie.....Reno
Bloom, Jerry.....Phoenix, Ariz.
Boland, Monty F.....Reno
Bonar, Roy T.....Lordsburg, N. M.
Bondurant, Robert.....Ely
Bony, Beverly.....Reno
Bony, Harry.....Reno
Booth, Marion.....Reno
Bowden, Gene.....Herlong, Cal.
Bowen, Bruce.....Reno
Bowers, Ronald.....Canton, Ohio
Bradley, Kenneth H.....Sparks
Bradley, William O.....Reno
Braito, Fred.....Reno
Brander, Roger.....Hawthorne
Braun, George O.....Sparks
Breese, Charles.....Reno
Bringhurst, Mark D.....
.....Salt Lake City, Utah
Brinkerhoff, William.....Sparks
Brinsmead, Robert H.....Reno
Britton, Mary.....Roselle, N. J.
Brown, Betty Jean.....Reno
Brown, Edward H.....Virginia City
Brown, Eleanor.....Reno
Brown, Justin.....Rochester, N. Y.
Brown, Orin.....Reno
Brown, Stanley.....Reno
Bruch, Harter.....Sacramento, Cal.
Brusa, Adeline.....Gonzales, Cal.
Bulmer, Blythe.....Reno
Busey, William.....Reno
Butler, Margaret.....Salinas, Cal.
Butler, Zalia Joy.....Reno
Butterworth, John.....Reno
Butts, George.....Reno
Cafferata, Gladys.....Reno
Cafferata, Russell.....Reno

Callahan, Evelyn.....Reno
Callahan, John..San Francisco, Cal.
Callahan, Mary Ellen.....Reno
Callahan, Pat....San Francisco, Cal.
Campbell, Edgar.....Reno
Campbell, Howard.....Reno
Campbell, Marjean.....Winnemucca
Campbell, Robert.....Taft, Cal.
Canady, Alta June.....Sparks
Cannan, Rita.....Reno
Cannon, Helen.....Fallon
Cardinal, Bertha.....Gardnerville
Cardwill, Clyde.....Stewart
Carlsen, Charles.....Reno
Carlson, Margaret.....
.....Watsonville, Cal.
Carlson, Patricia.....
.....Watsonville, Cal.
Carrick, Robert W.....Reno
Carter, Bernice.....Reno
Case, Walter.....Winnemucca
Caserta, Giovanni.....Reno
Cattran, Elizabeth.....Herlong, Cal.
Checchi, Albert.....Sparks
Chester, James.....Linden, N. J.
Choy, John.....San Francisco, Cal.
Christian, John.....Pioche
Christian, Mary.....Pioche
Churn, Browning.....Reno
Ciari, Harold.....Sparks
Clark, Kathryn.....Reno
Clemens, Thomas..Sacramento, Cal.
Clements, Harriet.....Henderson
Cochran, Ruth.....Newark, Ohio
Collins, Asa.....San Francisco, Cal.
Collins, Chester.....Reno
Collins, Jack.....Sparks
Colvin, Elsie N.....Gerlach
Contillo, Felix.....Reno
Cook, Woodrow.....Man, W. Va.
Cooney, Donald.....Reno
Cooper, Earl.....Reno
Cottrell, Frederick.....Reno
Coverston, Ethelyn.....Fallon
Cox, Don K.....Reno
Craig, Robert R.....Reno
Crawford, M. W.....Reno
Creed, Kim.....Reno
Crescenzo, Frank.....Carson City
Creveling, Robert.....Reno
Cronin, Nell Gene..Janesville, Wis.
Cross, Charles B....Tahoe City, Cal.
Cunha, George.....Hawthorne
Cusick, Owen.....Reno
Cutter, Carol.....Reno
DaCosta, Janet.....Reno
Dake, Lulu May...Mt. Vernon, N. Y.
Daley, Cecelia.....Reno
Damkroger, Donald.....Hawaii
Daniels, Rex.....Reno
Daseler, Jack.....Oroville, Cal.
Davidson, Donald....Coachella, Cal.
Davis, Irene.....Princeton, Ind.
Dearing, Laura L.....Las Vegas
Dearing, Lide.....Reno
deLeon, Marc..San Bernardino, Cal.
DeNevi, Angela.....Reno
Denton, Lola.....Caliente
Depetris, Albert.....
.....San Francisco, Cal.
DeRuff, Arlene.....Reno
Dickerson, Belford.....Reno
Dickerson, George.....Reno
Diehl, John W.....Reno
DiFraia, Dominic.....
.....Cambridge, Mass.
Dodge, Max.....Seattle, Wash.
Doherty, Elvina.....Reno
Dominquez, Pearl.....Reno
Donaldson, Gene.....Reno
Donaldson, Marguerite.....Reno
Dondero, Angelo.....Reno
Donlin, Mary.....Casper, Wyo.
Donohoe, Jack.....Reno
Drakulich, Duke.....Kimberly
Drakulich, Mike.....McGill
Dranchak, John.....Endicott, N. Y.
Ducasse, James A.....
.....Susanville, Cal.
Dugan, Floyd J...Indianapolis, Ind.
Dunn, Helen M.....Reno
Dupont, John L.....Reno
Durst, Gerald.....Sacramento, Cal.
Dyche, Iva.....Carlsbad
Ebberts, Rodney.....Westwood, Cal.
Edmunds, Marilyn.....Reno
Ekel, Thomas.....Reno
Elder, Albina G.....Reno
Ellis, Jane Ann.....Reno
Enke, Mary L.....Elko
Enke, Rosalie.....Elko
Erquiaga, Jesse.....Ely
Etchemendy, Leon.....Reno
Evans, Eugene.....Oakland, Cal.

Everett, Albert.....Sparks
Fagan, John F.....Reno
Fancher, Ira.....Reno
Fant, John H.....Reno
Farnsworth, Darwin..Winters, Cal.
Ferguson, Marilou.....Reno
Ferris, Arelene.....Herlong, Cal.
Fiddes, Paul E.....Ruth
Field, Walter.....Modesto, Cal.
Fisher, Francis N.....Virginia City
Fitzgerald, Wm. A.....Sparks
Fluty, Cleo S.....Visalia, Cal.
Foley, Joseph.....Reno
Fong, Ging.....Reno
Ford, Donald.....Yerington
Foster, Billy T.....Canton, Texas
Francis, John.....Winnemucca
Franklin, Glenn.....Reno
Frazier, Hope.....Shoshone
Freeman, David.....
.....Grand Rapids, Mich.
Friberg, Tennys.....Imlay
Frost, Gordon.....Susanville, Cal.
Fugit, William.....Reno
Funderburgh, Ila.....Reno
Furchner, Theodore.....Reno
Furin, Jack J.....Uniontown, Pa.
Fyfe, Ruth.....Las Vegas
Gallagher, Tom.....Elko
Gamberg, David...Philadelphia, Pa.
Gavitt, William.....Cranston, R. I.
Gent, Ruth.....Reno
Gentry, Marvel.....Reno
Gentry, V. L.....Reno
Geyer, Charles W.....Reno
Gibson, Janet.....Eureka
Gibson, Mary A.....Reno
Gifford, Ella S.....Tuscarora
Gilbert, Quinter.....Wellington
Gildone, Mario.....Reno
Ginocchio, Andrea.....Reno
Glaser, Evelyn H.....St. Louis, Mo.
Glynn, James.....Reno
Godbold, Margaret.....
.....Parks Rapids, Minn.
Golick, Esther.....Reno
Gomes, John M.....Oakland, Cal.
Gooch, Sarah.....Reno
Goodwin, Muriel.....Reno
Gordon, Esther E.....Reno
Gordon, Philip.....Reno
Gould, Harry.....Reno
Graham, Maud W.....Reno
Granata, Evo.....Reno
Gray, Edythe.....Sparks
Gray, R. Guild.....Reno
Green, Chester.....Reno
Green, Wallace.....Reno
Grifantina, Bino.....Reno
Griswold, Bettie.....Reno
Grover, Theodore.....Boulder City
Hacket, Helen.....Ploche
Haley, Gloria.....Litchfield, Cal.
Halley, Helen.....Reno
Hallock, Esther.....New York, N. Y.
Hancock, Susan.....Reno
Hanford, Gerard.....Reno
Hanley, Helen.....Reno
Hanna, Betty Jo.....Reno
Hansen, Harris A.....Ely
Hansen, William C.....Reno
Hanson, Rose S.....Mountain City
Harding, Sue E.....
.....Pt. Angeles, Wash.
Hardison, Artson.....Pasadena, Cal.
Harford, Boyd.....Arvin, Cal.
Harford, Jane.....Arvin, Cal.
Harmon, Harley.....Reno
Harrigan, William.....Reno
Harriman, Alice.....Lovelock
Harris, Brunson.....
.....San Francisco, Cal.
Harris, Edith C.....Reno
Harris, Gordon.....Reno
Harrison, Betty.....Reno
Harrison, Bruce.....Reno
Hart, Margaret G.....Reno
Harter, Dona.....Bishop, Cal.
Harvey, Thomas G.....Reno
Hattala, John.....Reno
Hauk, Robert W.....Pasadena, Cal.
Hawk, Alvin S.....Long Beach, Cal.
Hawkins, Dougles.....Ely
Hawkins, Gordon L.....Las Vegas
Hawkins, John C.....Reno
Heim, Ann.....Reno
Heiss, Elwood.....Strondsburg, Pa.
Heltzel, Bernice..Moorefield, W. Va.
Henley, William.....Virginia City
Hess, Richard M.....Ft. Wayne, Ind.
Hickman, Felton.....Reno
Hicks, Mary.....Las Vegas
Hildebrand, Mamie.....Reno
Hilkert, Adeline.....Tempe, Ariz.

Hilkert, E. J.....Sparks
Hill, Stanley G.....Reno
Hink, Claus J.....Burlingame, Cal.
Hitchens, Lois.....Reno
Hochstrasser, Alma.....Reno
Hoggan, George.....McGill
Holderman, Orville.....McGill
Hopkins, Galen P.....Reno
Horan, Mabel.....Carson City
Hoskins, James.....Sturgis, Ky.
Howard, LaVerne.....Fallon
Hulme, Gilbert.....Mt. Berry, Ga.
Hunt, Dorothy M.....Reno
Hunt, Douglas L.....Reno
Hursh, Ernest W.....Fallon
Hursh, Warren.....Fallon
Illerich, Dan.....Sacramento, Cal.
Isserman, Dorothy.....
.....Maplewood, N. J.
Jackson, Carl A.....Reno
Jackson, Richard.....Boulder City
Jemison, Rex.....Las Vegas
Jensen, John M.....Reno
Johnson, Arthur W.....Fallon
Johnson, Emmett C.....
.....Los Angeles, Cal.
Johnson, Laurence....Duncan, Ariz.
Johnson, Lyn.....Brooklyn, N. Y.
Johnstone, Thelma.....Reno
Jones, Bliss.....Burbank, Cal.
Jordan, Pauline.....Reno
Kane, Harry.....Concord, Cal.
Kaplan, Abe.....Reno
Kariker, Rose K.....Las Vegas
Karrasch, Karl K.....Reno
Kast, Fremont.....Reno
Kastenas, Boleslaus.....Reno
Kayser, Robert.....Chickasha, Okla.
Keele, Teddyanna.....Sparks
Keele, Vincent S.....Sparks
Keever, Charles.....Carson City
Kegel, Jerome.....Reno
Kelley, Marjorie.....Eureka
Kemper, Anna May.....
.....W. Hollywood, Cal.
Kletzman, Walter.....Berkeley, Cal.
Kimball, Wilford A.....
.....Berkeley, Cal.
Kimerling, Virginia.....
.....Bridgeport, Cal.
King, Esther.....Henderson
King, John T.....Johnsville, Cal.
Kinnerup, James.....Phoenix, Ariz.
Kinney, Joseph.....Winnemucca
Kling, Mary E.....Ely
Knowles, Gerald.....Willows, Cal.
Kramer, Bert.....Sparks
Kramer, Loene.....Reno
Krick, Harry R.....Reno
Landucci, August.....Reno
Langan, Lucien.....Flushing, N. Y.
Larsen, Raymond.....Reno
Larson, Novella.....Reno
LaTona, Ted.....Sacramento, Cal.
Laue, Alfred B.....Belvidere, N. J.
Laue, J. Fred.....Wanaque, N. J.
Launer, Camille C.....Reno
Launer, Douglas.....Reno
Lawrence, Ann.....McGill
Lazzarone, Albert.....
.....Sacramento, Cal.
LeClare, Charles.....Reno
Leggett, John.....Reno
Lemaire, Darrell.....Reno
Leslie, Gloria.....Reno
Levack, Samuel S.....Reno
Lilly, Donald.....Phoenix, Ariz.
Liotard, Alphonsine...Paradise Val.
Liotto, John.....Susanville, Cal.
Little, Robert.....Winnemucca
Lokke, Freda.....Sparks
Loring, Bertha.....Reno
Lowry, Jean.....Reno
Luce, Jean.....Las Vegas
MacAhan, Gertrude B.....Canada
MacDonald, Joseph....Redding, Cal.
Mackey, James.....Reno
Maestretti, Madlen.....Reno
Markin, Scott.....Reno
Marrin, Adriana.....Reno
Marsh, James H.....Reno
Marsh, Robert.....Reno
Martin, Alida.....Schurz
Martin, Lucia.....Reno
Martin, Marjori.....Reno
Martin, Robert.....Imlay
Masini, Tosca.....Sparks
Matteoni, Silvano.....Sparks
Mayo, Charles.....Reno
McCarter, Eileen.....Corral, Idaho
McCormack, Robert.....
.....San Rafael, Cal.
McDaniel, J. H.....Reno
McDaniel, Margaret..Columbia, Pa.

McElwee, Sara.....Sparks
McEwen, Clarence.....Reno
McGuire, Gladys E.....Reno
McHan, Richard F.....
.....Idaho Falls, Idaho
McKenna, C. P.....Reno
McMichael, Junerwanda.....Reno
McNaughton, Mary.....Reno
McQueary, Barbara.....Tecopa, Cal.
McQueen, Effie.....Reno
McQueen, Forrest.....Reno
Meaker, Reginald.....Reno
Means, Jack.....Reno
Menke, Eugene M.....Reno
Meredith, Thomas K.....Reno
Metcalf, Emma.....Termo, Cal.
Michalek, Daniel.....Adams, Mass.
Middleton, Edgar.....Reno
Miller, Eleanor.....Reno
Miller, Florene.....Reno
Miller, Jesse W.....Kent, Minn.
Miller, John.....Boulder City
Miller, Lillian E.....McGill
Miller, Sarah Ellen.....Reno
Millinger, Jack.....Sparks
Mills, Robert B.....Reno
Mirabella, Michael A.....Las Vegas
Mirabella, Philip.....Las Vegas
Mitchell, C. E.....Sparks
Mitton, Charlotte H.....Reno
Monoghan, James E.....Reno
Montgomery, Thomas.....Reno
Moore, David.....Carmel, Cal.
Moore, Joseph E.....Winnemucca
Moran, William.....Reno
Morby, Andrew.....Reno
Morrison, Robert.....Reno
Morrison, Vina.....Arvin, Cal.
Morsberger, Paul.....Reno
Mossman, Beatrice.....Colton, Cal.
Mowry, Elwood B.....
.....Salt Lake City, Utah
Muguira, Frances.....Reno
Mulcahy, Edwin C.....Reno
Munn, Richard.....Reno
Murdock, Alice.....Elko
Murray, Matthew.....
.....Long Island, N. Y.
Murray, William.....Forest City, Pa.
Mustard, Donald.....Fallon
Naylor, Genevieve.....Reno
Neal, Benjamin.....Lookout, Cal.
Nelson, Robert M.....Kirkland, Cal.
Nielsen, Thelma.....Reno
Nishiguchi, Roy.....Reno
Nixon, Mabel.....Austin
Noble, Mary.....Babbitt
Nord, Earnest.....San Leandro, Cal.
Norris, Donna E.....Imlay
Norris, Louise.....Dyer
Olds, Valentine.....Reno
Olguin, Dan J.....Sparks
O'Shaughnessy, Robert.....
.....Oakland, Cal.
Oswald, Marcella.....Butler, Pa.
Paille, Robert.....Reno
Palmer, Virginia.....Reno
Parker, Girard.....Reno
Parker, Harold K.....Reno
Parker, Laurel.....Reno
Paterson, Robert.....Reno
Patrick, Robert.....Reno
Payne, Evelyn.....Reno
Pedroli, Nevada.....Reno
Petersen, Constance.....Reno
Petersen, Rebecca.....Reno
Phillips, E. A.....Blacksville, W. Va.
Phillips, John.....Reno
Phillips, Josephine.....Reno
Phillips, Muriel.....Reno
Phillips, Wendell.....Reno
Picollo, Marvin E.....McGill
Pilkington, Margaret.....Reno
Pistocco, Ruth.....McGill
Pontecorvo, Anthony.....Astoria, N. Y.
Pope, Girdwood C.....Oroville, Cal.
Porter, Robert L.....Marion, Ohio
Price, Jacqueline.....Susanville, Cal.
Priddy, Agnes.....Reno
Ramelli, Donald.....Reno
Randall, Adeline.....Woonsockett, R.I.
Ravera, Bert A.....Reno
Ray, Barbara.....Caliente
Read, Robert.....Carson City
Reed, Flo Z.....Elko
Reeves, Robert.....Placerville, Cal.
Reifschneider, Olga.....Reno
Reinken, Hattie.....Elko
Reinken, William.....Reno
Reynolds, Marillyn.....
.....Sacramento, Cal.
Rice, Daniel.....Reno
Rice, Kenneth.....Reno
Richards, Paul A.....Reno

Richter, William.....Reno
Rigby, William.....Reno
Riggle, Carl C.....Sparks
Riggs, Homer.....Reno
Riley, David.....Reno
Riley, Ellen.....Yerington
Riley, Linford.....Reno
Riley, Phyllis.....Reno
Risard, Martin H.....Reno
Roberts, Agnes....San Andreas, Cal.
Roberts, Jerry.....Reno
Rochmis, Lyda..White Plains, N. Y.
Rockwell, Arthur.....Reno
Rogers, Allen S.....Reno
Rogers, Ruth.....Las Vegas
Rogers, Will.....Reno
Root, Lloyd.....Reno
Rosaschi, Gloria.....Yerington
Rosascó, Yvonne R.....Reno
Ross, Randall T.....Reno
Rotholtz, Adelyn.....Reno
Roush, Lyle.....Sloan
Rowe, Margaret.....McGill
Rowe, Thomas.....Reno
Rowley, Elsie J.....Sparks
Rowley, Myra.....Sparks
Rude, Lloyd.....Sparks
Saling, Milo.....Reno
Sancic, Charles.....Reno
Sartin, Georgia.....Windsor, Mo.
Sauberman, Sylvia..Brooklyn, N. Y.
Saunders, Edward.....Winnemucca
Saunders, Nora.....Winnemucca
Scarselli, Gene.....Reno
Schiff, Sarah.....Annapolis, Md.
Schindler, Cecilia.....Sparks
Schooley, Wilma.....Reno
Schultz, James A.....Reno
Schulz, Martha A.....Las Vegas
Schulz, Wallace W.....
.....Westwood, Cal.
Schwartz, Mary E.....Goodsprings
Seddon, Elizabeth.....Smith
Sewell, Dorothy.....Reno
Sewell, Mary Lou.....Reno
Sharp, Melvin W.....Boulder City
Shea, Vincent.....Reno
Sheeran, Helen G.....Reno
Shelby, Eugenia.....Reno
Sherman, Barbara.....Berkeley, Cal.
Sherwood, William.....
.....San Francisco, Cal.
Silverstein, Beatrice.....Reno
Simoni, Frank.....Reno
Singleton, Beulah.....Reno
Singleton, Robert A.....Sparks
Small, James G.....Reno
Smith, Emma N.....Reno
Smith, John W.....Vallejo, Cal.
Smith, Lucille E.....Reno
Smith, Margaret A.....McGill
Smith, Patricia.....Reno
Smith, Peter M.....Reno
Snyder, Orrin.....Reno
Solt, Rosalie.....Perth Amboy, N. J.
Sondergard, Leonard..Del Ray, Cal.
Speyer, Joan.....Sparks
Spitz, Louis.....Reno
Stafford, Victor H.....Reno
Standish, Jesse.....Evansville, Ind.
Stanley, Shirley....Santa Rosa, Cal.
St. Cyr, Edith L.....Fallon
Stensil, Mae.....Sloan
Stern, Leonard..San Francisco, Cal.
Stewart, Anna Lu.....Reno
Stewart, Henry.....Lovelock
Stichter, Ryel.....Reno
Street, Ethel.....Fallon
Streng, Dorothy.....Reno
Sturman, Clara.....Downieville, Cal.
Sullivan, Verne.....Las Vegas
Swedenborg, Jack.....McGill
Sweeney, Eileen.....Boulder City
Talley, Fred.....Provo, Utah
Tarble, Richard.....Lynwood, Cal.
Taverna, Rose.....Reno
Taylor, Robert A.....Redlands, Cal.
Taylor, Robert L.....Kimberly
Tennant, Ray.....Tonopah
Thacker, Irene.....Owyhee
Therkelsen, Edward.....Hawthorne
Thomas, Winifred.....Reno
Thompson, Irene.....Sparks
Thompson, William...Buckeye, Ariz.
Thomsen, Delbert.....Reno
Tidball, Harvey E.....Reno
Tierney, James.....Santa Rosa, Cal.
Tonning, Christian.....Norway
Towles, Mamie.....Reno
Tracy, Madeline.....
.....San Francisco, Cal.
Tracy, Madeline.....
.....San Francisco, Cal.
Trail, Douglas.....Reno

Tranter, Damon.....Reno
Trigero, Clayson.....Reno
Tripp, Walter.....Reno
Truitt, Winifred.....Norfolk, Va.
Truitt, Winifred B.....Norfolk, Va.
Trumbo, James D.....Reno
Tudor, Mathew.....Thorne
Turner, Helen.....Reno
Turnquist, Ellen.....Ely
Turrillas, Margaret.....Reno
Upson, Wallace C.....Reno
Vacchina, Elmer.....Reno
Vandament, Beulah.....Sumner, Ill.
Verant, Joe.....Fallon
Vittetoe, Luke.....Sigourney, Iowa
Wagner, William.....Reno
Waldman, Richard.....Reno
Walker, Elizabeth.....San Francisco, Cal.
Walker, Grace.....Pioche
Walker, Jeanne.....San Francisco, Cal.
Walker, Pearl.....Reno
Walker, R. E.....Carson City
Wall, Glenn F.....Westwood, Cal.
Wallace, Ruth.....Reno
Walter, Herbert G.....Reno
Ward, Ann.....Reno
Ward, Myrtle.....Bonne Terre, Mo.
Washburn, Lois.....Fallon
Weihe, Joseph.....Reno
Wersky, Catherine.....Reedley, Cal.
Whipple, Barbara.....Logandale
Whipple, Louise.....Sparks
White, Hugh.....Humboldt, Tenn.
White, Ruby.....Hoxie, Kan.
Whitney, Roberta.....Los Angeles, Cal.
Whittemore, R. G.....Carson City
Whittemore, R. G., Jr...Carson City
Whitworth, Edith.....Reno
Wilcox, Marguerite.....Lonaconing, Md.
Wilkinson, Ruth.....Las Vegas
Willaman, Phyllis.....Reno
Willcox, Jane.....Reno
Williams, Doris.....Reno
Williams, Frank W.....Reno
Williams, Kenneth.....Fernley
Wilmoth, Floyd.....Fresno, Cal.
Wing, Evelyn.....Hollywood, Cal.
Witherbee, Orville.....Reno
Witte, John E.....Eureka
Woosley, Mabel.....Sparks
Wooster, Edna.....San Diego, Cal.
Wright, George.....Mt. Shasta, Cal.
Young, Charles H.....Reno
Yparraguirre, Paul.....Carson City
Zeigler, R. K.....Reno
Zetoony, Harry S.....Reno

Homemaking Education Department

AUGUST 19–30, 1946

Baumann, Phyllis.....Fallon
Cardwell, Clyde (Mrs.).....Winnemucca
Carter, LaRue (Mrs.).....Lund
Drake, June.....Markleeville, Cal.
Fabbi, Frances (Mrs.).....Reno
Hailand, Frances (Mrs.).....Fallon
Henry, Edith.....Battle Mountain
Hostbjor, Phyllis.....Rosholt, S. D.
Houghtaling, Mary (Mrs).....Reno
Isom, Opal.....Hurricane, Utah
King, Zeltha.....Elko
Nygren, Maie.....Fallon
Pearce, Zelia (Mrs.).....Arkansas City, Kan.
Pohlman, Genevieve.....Reno
Riggle, Mildred.....Sparks
Ryan, Mary (Mrs.).....Fallon
Sayre, Eileen.....Smith
Stingley, Marjorie (Mrs.).....Carson City
Streshley, Geraldine.....Austin
Teter, Evalyn.....Burbank, Cal.
Weaver, Marian (Mrs.).....Mapleton, Minn.
Whipple, Marjorie.....Logandale

ENROLLMENT SUMMARY
1946–1947

Graduate Students		49
COLLEGE OF ARTS AND SCIENCE		
Seniors	78	
Juniors	95	
Sophomores	235	
Freshmen	771	
Specials	98	
		1277
COLLEGE OF ENGINEERING		
Mackay School of Mines—		
Seniors	9	
Juniors	21	
Sophomores	29	
Freshmen	91	
Specials	9	
		159
School of Civil Engineering—		
Seniors	9	
Juniors	8	
Sophomores	10	
Freshmen	69	
Specials	6	
		102
School of Electrical Engineering—		
Seniors	6	
Juniors	12	
Sophomores	23	
Freshmen	110	
Specials	9	
		160
School of Mechanical Engineering—		
Seniors	5	
Juniors	9	
Sophomores	13	
Freshmen	62	
Specials	5	
		94
COLLEGE OF AGRICULTURE		
School of Agriculture—		
Seniors	11	
Juniors	7	
Sophomores	9	
Freshmen	47	
Specials	7	
		81
Department of Home Economics—		
Seniors	5	
Juniors	6	
Sophomores	10	
Freshmen	18	
Specials	3	
		42
Total University		1964
Enrollment of Men	1369	
Enrollment of Women	595	
Total Summer School, 1946		654
		2618
Less names counted twice		336
Grand Total Enrollment		2282

GENERAL INDEX

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*Figures at end of lines refer to pages.

THE

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