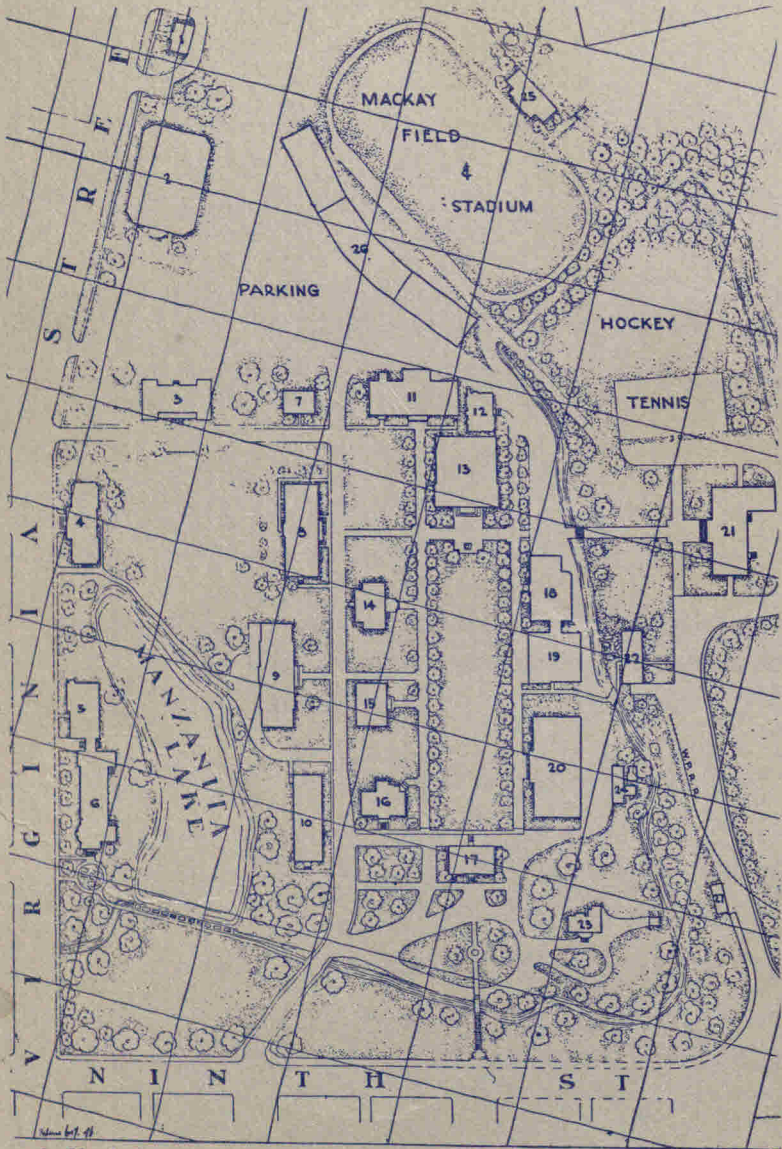


*House*

# UNIVERSITY OF NEVADA BULLETIN





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

# University of Nevada Bulletin

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## CATALOGUE



## ANNOUNCEMENTS

FOR

1948-1949

WITH

RECORD FOR 1947-1948

VOLUME XLII

JUNE 1948

No. 4

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**CARSON CITY, NEVADA**

**STATE PRINTING OFFICE - - JACK MCCARTHY, SUPERINTENDENT**

**1948**

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OFFICE OF THE  
BOARD OF REGENTS, UNIVERSITY OF NEVADA  
RENO, NEVADA, June 15, 1948

*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 1947-1948, 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.*



# 1948

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# 1949

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31																					

OCTOBER							NOVEMBER							DECEMBER						
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23	24	25	26	27	28	29	27	28	29	30										
30	31																			

# UNIVERSITY CALENDAR

## First Semester

1948-49

September 10	Friday	First meeting of faculty.
*September 10-14	Friday-Tuesday	Orientation of new students.
September 10	Friday	Dormitories open.
*September 11	Saturday	Required entrance examinations.
September 12	Sunday, 3 p. m.	President's reception and outdoor entertainment for new students.
September 13	Monday, 7 p. m.	Freshman mixer.
September 15	Wednesday	Registration.
September 16	Thursday	Instruction begins.
October 30	Saturday	Homecoming.
November 11	Thursday, 8-12 a. m.	Armistice Day.
November 13	Saturday	Grade reports due.
November 24-29	Wednesday, 4 p. m.— Monday, 8 p. m.	Thanksgiving recess.
December 18	Saturday, noon	Christmas vacation begins.
December 18	Saturday, noon	Dormitories close.
January 1	Saturday	Dormitories open.
January 3	Monday, 8 a. m.	Instruction begins.
January 24-28	Monday-Friday noon	Semester examinations.
January 28	Friday, noon	First semester closes.

## Second Semester

February 1	Tuesday, 9 a. m.	Mental tests for new students.
February 1	Tuesday, 1 p. m.	Examinations in English for all new students.
February 2	Wednesday	Registration.
February 3	Thursday	Instruction begins.
April 9	Saturday	Grade reports due.
April 13-20	Wednesday, 4 p. m.— Wednesday, 8 a. m.	Easter recess.
May 7	Saturday	Mackay Day.
May 21	Saturday	Engineer's Day.
May 30	Monday	Holiday.
May 31-June 4	Tuesday-Saturday	Semester examinations.
June 3	Friday	Meeting of Honorary Board of Visitors.
June 4	Saturday, noon	Second semester closes.
June 4	Saturday evening	Phi Kappa Phi banquet and address.
June 4	Saturday, noon	Dormitories close.
June 5	Sunday	Baccalaureate address.
June 6	Monday	Commencement.
June 8	Wednesday, 9 a. m.	Final grades on file with the Registrar.

## Summer Session

June 11	Saturday	Registration.
June 13	Monday	First term begins.
July 15	Friday	First term ends.
July 16	Saturday	Registration.
July 18	Monday	Second term begins.
August 22	Monday	Second term ends.

\*All new students are expected to be present at the New Gymnasium at 7:45 a. m., Saturday, September 11, at which time required mental tests and examinations in English will be given.

*2 p.m. 10/1/48*

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# Officers of the University

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## 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.

## HONORARY BOARD OF VISITORS

HON. EDGAR EATHER, Chief Justice of the Supreme Court.....	Chairman
HON. HUGH M. WILSON.....	Fallon, Churchill County
HON. I. R. CRANDALL.....	Las Vegas, Clark County
HON. ROY T. WILLIAMS.....	Minden, Douglas County
HON. C. J. LITTLEFIELD.....	Elko, Elko County
HON. DAVID PATTERSON.....	Dyer, Esmeralda County
MRS. JUDSON V. HOOPER.....	Eureka, Eureka County
HON. PETER ETCHART.....	Winnemucca, Humboldt County
MRS. MILDRED CAMPBELL.....	Austin, Lander County
MRS. EVEREST HACKETT.....	Pioche, Lincoln County
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HON. O. H. OLESEN.....	Lovelock, Pershing County
MRS. ZEB KENDALL.....	Virginia City, Storey County
MRS. WILLIAM S. BOYLE.....	Reno, Washoe County
MRS. W. N. IRELAND.....	McGill, White Pine County

## ADMINISTRATIVE OFFICERS

- JOHN O. MOSELEY, M.A., A.B. (Oxon), A.M. (Oxon), LL.D., President.  
 WALTER E. CLARK, Ph.D., LL.D., President Emeritus.  
 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. LYMAN, B.L., Librarian Emeritus.  
 WALTER S. PALMER, E.M., Curator of the Mackay Museum.  
 J. B. ZADRA, B.S., Met., 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 Corre-  
 spondence Study.  
 PERRY HAYDEN, B.A., Assistant to the Comptroller.  
 CLARENCE E. BYRD, M.A., Administrative Assistant to the Dean of Agri-  
 culture.  
 LEGRAND WALKER, B.S., Manager, University Farms.  
 CARL M. HORN, Superintendent of Maintenance.  
 MRS. FLORENCE PEACOCKE, Hostess of Artemisia Hall.  
 MRS. MABEL FULTON, Hostess of Manzanita Hall.  
 MRS. NELLIE WALDEN NELSON, Director of Dining Hall.

*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. TRAINER, Ph.D., Dean of the School of Education.  
 JAY A. CARPENTER, E.M., Director of the Mackay School of Mines.  
 HAROLD N. BROWN, Ed.D., Director of Summer Sessions.  
 V. E. SCOTT, M.S., Director of Residence Teaching in Agriculture.

*Public Service Division—*

- WALTER S. PALMER, E.M., Director of the State Analytical Lab-  
 oratory.  
 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 Experi-  
 ment 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 Sta-  
 tion.

*Hospital Staff—*

- ROBERT LOCKE, M.D., Physician.  
 MISS MARY PECK, R.N., Head Nurse.  
 MISS MARY ROTTER, R.N., Assistant Nurse.  
 MRS. J. B. LYNCH, Assistant.

*Library Staff—*

- MRS. EDITH J. HOLMES, B.A., Order Librarian.  
 MISS CLARE LOUISE JOHNSON, B.A., Cataloguer.  
 MISS GEORGIA ANNE MERSHON, B.A., Reference Librarian.

MRS. JULIA HURLBUT ENCK, B.S., Cataloging Assistant.  
MRS. MARY C. EDWARDS, B.S., General Assistant.  
MISS MARY K. NOBLE, B.A., Clerical Assistant.

*Clerical Staff—*

MISS ALICE TERRY, Secretary to the President.  
MRS. MELBA McFARLAND, Stenographer, President's Office.  
MISS JACQUELYN MARSHALL, Clerk, President's Office.  
MRS. RAE ELDER PETERSEN, Clerk, President's Office.  
MRS. ADELAIDE STEINER, Clerk, Comptroller's Office.  
MISS ESTHER ROMANO, Clerk, Comptroller's Office.  
MISS MARY MOULTON, Clerk, Comptroller's Office.  
MRS. GENEVIEVE YORI, Clerk, Comptroller's Office.  
MRS. MARGARET HEINEN, Clerk, Registrar's Office.  
MRS. ELIZABETH LEEDS SCOTT, Secretary to the Dean of Men.  
MRS. MARY E. GROVER, Clerk, Dean of Men.  
MRS. JACQUELINE ELDER, Secretary to the Dean of Women.  
MISS PEGGY BOYLE, Secretary to the Admissions Committee.  
MRS. GERALDINE GOULD, Secretary to the Home Studies Director.  
MRS. PHOEBE SWETT, Secretary to the College of Agriculture.  
MRS. ARLENE BALL, Secretary to the Dean of Arts and Science.  
MRS. MARY LUE CARLSEN, Secretary to the Dean of Engineering.

*Associated Students—*

JOE T. McDONNELL,<sup>1</sup> B.A., Graduate Manager.  
EUGENE MASTROLANNI, B.S., Graduate Manager.  
MISS ERMA CAPURRO, Secretary to the Graduate Manager.  
HELEN BRANIA, B.A., Executive Secretary, Y.W.C.A.

*Alumni—*

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

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<sup>1</sup>Resigned June 30, 1948.

## 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, Emeritus.

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

PETER FRANDBEN, 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)

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)

ELSA SAMETH, M.S., Professor of Physical Education for Women, Emeritus.

A.B., Cornell University, 1911; B.S., Columbia University, 1911; M.S., University of Wisconsin, 1922. (1913-1948)

\*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.

VERNER E. SCOTT, M.S., Professor of Dairy and Poultry Husbandry, Emeritus.

B.S., University of Wisconsin, 1911; M.S., University of Nevada, 1933. (1912-1948)

REUBEN CYRIL THOMPSON, M.A., LL.D., Professor of Philosophy, Emeritus.

B.A., McMinnville College, 1899; B.A., Harvard University, 1901; M.A., 1902; LL.D., Linfield College, 1938. (1908-1948)

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)

CARL H. BARTON, B.S., Captain, United States Army; Assistant Professor of Military Science and Tactics for Air.

B.S., Oregon State College, 1941. (1947)

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)

JOHN S. BRITTAN, M.A., Instructor in Economics, Business, and Sociology.

B.A., Montana State University, 1942; M.A., University of California at Los Angeles, 1946. (1947)

GEORGE A. BROTEN, Ed.M., Instructor in Physical Education for Men.

B.S., Oregon State College, 1940; Ed.M., 1947. (1948)

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)

JOHN RAYMOND BUTTERWORTH,<sup>1</sup> 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., 1911. (1908-1939)

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

B.S., United States Military Academy, 1941. (1947)

LEONARD EDWIN CHADWICK,<sup>1</sup> B.S., Assistant Professor of Economics, Business, and Sociology.

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

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

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

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)

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, D.S.L., Assistant Professor of Foreign Languages.

D.S.L., University of Grenoble, 1921; H.E., University of Turin, 1923. (1946-1947)

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<sup>1</sup>Absent on leave.



- E. A. DAVIS, M.A.**, Instructor in Mathematics.  
A.B., University of California, 1940; M.A., 1944. (1947)
- MERYL WILLIAM DEMING, Ph.D.**, Professor of Chemistry.  
B.A., University of Oregon, 1923; M.A., 1925; Ph.D., University of Washington, 1928. (1929-1946)
- LARAINÉ ERNEST DUNN, Ph.D.**, Associate Professor of Soils.  
B.S., Oregon State College, 1929; M.S., Iowa State College, 1931; Ph.D., Washington State College, 1942. (1947)
- J. LYMAN EARL, B.S.**, Instructor in Electrical Engineering.  
B.S., University of Nevada, 1947. (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)
- WILLIAM R. FAIR, B.S.**, Instructor in Electrical Engineering.  
B.S., California Institute of Technology, 1943. (1947)
- MARY C. FERGUSON, B.S.**, Instructor in Physics.  
B.S., University of Nevada, 1943. (1947)
- HARVEY IRVIN FISHER, Ph.D.**, Assistant Professor of Biology.  
B.S., Kansas State College, 1937; Ph.D., University of California, 1942. (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)
- 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)
- JAY M. HANSEN, Ph.D.**, Assistant Professor of Physics.  
B.S., University of Utah, 1941; M.A., Columbia University, 1944; Ph.D., 1947. (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; Ph.D., Clark University, 1931. (1924-1931)

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

A.B., Oberlin College, 1920; A.M., 1920. (1923-1936)

**JAMES JULIAN HILL, M.A., B.S. in L.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)

**GORDON E. JACOBBER, A.B.**, Assistant Professor of Geology.

A.B., Johns Hopkins University, 1941. (1947)

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

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

**PAUL HOLME JENSEN, Ph.D.**, Instructor in Education.

B.A., Dana College, 1933; B.D., Midland College, 1935; Ph.D., University of North Dakota, 1938. (1947)

**HELEN JOSLIN**, Instructor in Art.

(1939 )

LAWTON B. KLINE,<sup>1</sup> M.A., Assistant Professor of Foreign Languages.

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

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 and Chairman of the Department of Horticulture.

A.B., Westminster College, 1907; A.M., Millikin University, 1909; Ph.D., University of Illinois, 1914. (1914-1925)

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. (1925-1935)

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, M.S., 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. (1936-1937)

GORDON H. MARSH, B.A., Instructor in Foreign Languages.

B.A., Columbia College, 1936. (1947)

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)

A. V. MARTIN, Ph.D., Assistant Professor of Mathematics.

A.B., Presbyterian College, 1936; Ph.D., Duke University, 1940. (1947)

IRA LA RIVERS, B.S., Assistant Professor of Biology.

B.S., University of Nevada, 1937. (1948)

CHRISTIAN W. F. MELZ, Ph.D., Associate Professor of Foreign Languages.

B.A., University of California, 1931; M.A., 1933; Ph.D., 1935. (1941-1947)

KATHARINE NORRID MERGEN, B.A., Instructor in Journalism.

B.A., University of Nevada, 1936. (1944)

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<sup>1</sup>Absent on leave.

MAYA MILLER, M.A., Instructor in English.

B.A., Principia College, 1936; M.A., Cornell University, 1939.  
(1946-1947)

MILTON MILLER, B.A., Instructor in English.

B.A., University of Wisconsin, 1947. (1947)

RICHARD G. MILLER, B.A., Instructor in Biology.

B.A., Principia College, 1936; M.S., Cornell University, 1941.  
(1947)

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)

R. J. MORRIS, Ph.D., Instructor in Chemistry.

B.S., University of Idaho, 1936; M.S., 1938; Ph.D., Ohio State  
University, 1947. (1947)

FRANCIS CLARK MURGOTTEN, Ph.D., Professor of Foreign Lan-  
guages.

A.B., Stanford University, 1901; A.M., 1908; Ph.D., Columbia  
University, 1924. (1922-1926)

OWEN GLYNN OWENS,<sup>1</sup> Ph.D., Assistant Professor of Mathe-  
matics.

A.B., University of California, 1936; M.A., 1937; Ph.D., 1941.  
(1946)

STANLEY G. PALMER, M.E., Dean of the College of Engineering  
and Professor of Electrical Engineering.

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, B.A., Colonel, United States Army; Profes-  
sor of Military Science and Tactics.

B.A., Cornell University, 1917. (1946)

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<sup>1</sup>Absent on leave.

- 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)
- BETTE POE, B.A., Instructor in Business Administration.  
B.A., University of Nevada, 1945. (1945)
- ROBERT C. POOLMAN, B.S., Assistant Professor of Civil Engineering.  
B.S., California Institute of Technology, 1945. (1946-1948)
- 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)
- KATHERINE REBECCA PRICE, M.A., Instructor in English.  
A.B., Barnard College, 1940; M.A., Columbia University, 1942. (1947)
- KINGSLEY PRICE, Ph.D., Assistant Professor of Philosophy.  
A.B., University of California, 1938; M.A., 1942; Ph.D., 1946. (1947)
- MARJORIE ANN PRICE, A.B., Instructor in Physical Education for Women.  
A.B., Arizona State College, 1947. (1947)
- JOHN PARK PUFFINBARGER,<sup>1</sup> Ed.M., Assistant Professor of Education.  
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,<sup>1</sup> Ph.D., Assistant Professor of Biology.  
B.A., Pomona College, 1934; Ph.D., University of California, 1939. (1941-1943)
- JOSEPH H. ROBERTSON, Ph.D., Associate Professor of Range Management and Agronomy.  
A.B., Peru State Teachers College (Nebraska), 1928; M.Sc., University of Nebraska, 1932; Ph.D., 1939. (1947)
- EDITH M. RUEBSAM, M.A., Associate Professor of Education.  
B.A., Columbia University, 1921; M.A., University of California, 1934. (1925-1935)

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<sup>1</sup>Absent on leave.

- RUTH IRENE RUSSELL,<sup>1</sup> 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)
- 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. (1928-1944)
- JAY SCHUMACHER, B.S., Part-time Instructor in Mechanical Engineering.  
B.S., University of Nevada, 1926. (1946-1947)
- CHESTER M. SCRANTON, M.A., Associate Professor of Physical Education for Men.  
B.A., University of Nevada, 1924; M.A., 1928. (1928-1936)
- GEORGE WALLACE SEARS, Ph.D., Professor and Chairman of the Department of Chemistry.  
B.S., Drury College, 1908; M.S., University of Illinois, 1911; Ph.D. 1914. (1917-1924)
- EDWIN S. SEMENZA, M.A., Instructor in English.  
B.A., University of Nevada, 1930; M.A., University of Southern California, 1934. (1946-1947)
- J. CRAIG SHEPPARD, B.F.A., Assistant Professor of Art.  
B.F.A. in Painting, University of Oklahoma, 1938; B.F.A. in Sculpture, 1939. (1947)
- JAMES COLEMAN SMEE, B.S., Lt. Colonel, United States Army; Assistant Professor of Military Science and Tactics.  
B.S., University of Kentucky, 1938. (1946)
- CLAUDE CARSON SMITH, Ph.D., Associate Professor of History and Political Science.  
A.B., Carson-Newman College, 1921; M.A., University of Oklahoma, 1924; Ph.D., Stanford University, 1947. (1929-1935)
- WILLIAM I. SMYTH, E.M., Professor of Metallurgy and Mining.  
B.S., University of Nevada, 1914; E.M., 1927. (1925-1947)
- HARRISON M. STONEBACK, M/Sgt., United States Army, Instructor in Military Science and Tactics.  
(1947)
- CARL R. SWARTZ, B.A., Instructor in Economics, Business, and Sociology.  
B.A., Chico State College, 1942. (1947)

<sup>1</sup>Absent on leave.

- 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)
- ROBERT TATE, M.A.**, Assistant Professor of Music.  
B.S., Teachers College, Columbia University, 1941; M.A., 1944. (1947)
- JOHN H. THOMPSON, M.A.**, Assistant Professor of Geology and Geography.  
A.B., Clark University, 1941; M.A., University of Colorado, 1943. (1947)
- LOUIS TITUS, M.S.**, Professor of Farm Mechanics; Chairman of the Department of Agronomy.  
B.S., University of Nevada, 1924; M.S., Cornell University, 1931. (1933-1947)
- 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)
- JAMES R. VAN DYKE, M.E.**, Professor and Chairman of the Department of Mechanical Engineering.  
B.S., Pennsylvania State College, 1918; M.E., 1922. (1941-1944)
- JACQUELYN RUTH VAN GAASBEEK, B.S.**, Instructor in Physical Education for Women.  
B.S., University of Virginia, 1945. (1946)
- WILLIAM VAN TASSEL, B.S.**, Instructor in Mechanical Engineering.  
B.S., University of Nevada, 1943. (1947)
- SEYMOUR MURRAY VINOCOUR, A.B.**, Instructor in English.  
A.B., University of Southern California, 1943. (1946)
- MILAN J. WEBSTER, Ph.D.**, Professor of Economics, Business, and Sociology.  
B.E., Nebraska Normal College, 1908; B.A., University of Nevada, 1929; M.A., 1931; Ph.D., University of Colorado, 1934. (1929-1944)
- JOSEPH WILLIAM WEIHE, B.S.**, Instructor in Mathematics.  
B.S., University of Nevada, 1946. (1946-1947)
- 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.  
B.S., Wilson College, 1938; M.A., Yale University, 1939; Ph.D., Johns Hopkins University, 1941. (1946-1947)

- LORING RIDER WILLIAMS, Ph.D., Associate Professor of Chemistry.  
B.S., West Virginia Wesleyan, 1927; M.S., West Virginia University, 1932; Ph.D., University of Illinois, 1939. (1939-1944).
- FREDERICK WESTON WILSON, M.S., Professor and Chairman of the  
Department of Animal Husbandry.  
B.S., Kansas State Agricultural College, 1905; M.S., University of Illinois, 1913. (1914)
- METTIE ANN WINSTON, M.A., Instructor in English.  
B.S., Westminster College, 1930; M.A., Teachers College, Columbia University, 1942. (1947)
- ELDON WITWER, Ph.D., Professor and Chairman of the Department of Agricultural Economics.  
B.S., University of Nevada, 1922; Ph.D., Cornell University, 1930. (1938-1939)
- FREDRICK WOOD, Ph.D., Dean of the College of Arts and Science; Professor of Mathematics.  
A.B., University of Wisconsin, 1915; M.A., 1916; Ph.D., 1923. (1932-1938)
- JAMES REED YOUNG, Ph.D., Professor and Chairman of the Department of Psychology.  
B.L., Berea University, 1907; A.B., Stanford University, 1909; A.M., 1910; Ph.D., University of Chicago, 1916. (1915-1920)

*Assistants, Fellows, and Lecturers*

- MARY ANCHO, B.A., Assistant in Foreign Languages.  
B.A., University of Nevada, 1946. (1946)
- WELD ARNOLD, A.B., Lecturer in Civil Engineering.  
A.B., Harvard University, 1918. (1947)
- FRANCES BAGLEY, Ph.B., Lecturer in Economics, Business, and Sociology.  
Ph.B., Loyola University, 1931. (1948)
- KENNETH BRADSHAW, B.S., Assistant in Mathematics.  
B.S., Iowa State College, 1945. (1947)
- MABEL MARIANI BROWN, B.A., Assistant in English and Foreign Languages.  
B.A., University of Nevada, 1928. (1946)
- SHIRLEY CAMPBELL, B.S., Fellow in Chemistry.  
B.S., University of Nevada, 1947. (1947)
- VIRGINIA CARROLL, M.A., Assistant in Home Economics.  
B.S., Columbia University, 1927; M.A., 1933. (1946)
- CHARLOTTE FERRIS CARTER, B.S., Assistant in Mathematics.  
B.S., University of Nevada, 1946. (1946)



- MANUEL FELIX DRUMM, B.S., Fellow in Chemistry.  
B.S., Monmouth College, 1945. (1946)
- R. GUILD GRAY, B.A., Lecturer in Education.  
B.A., University of Nevada, 1936. (1947)
- LOUIS B. HALL, B.A., Assistant in English.  
B.S., Pennsylvania State College, 1939. (1947)
- ROBERT W. HOUSER, B.A., Assistant in Mathematics.  
B.A., Oberlin College, 1947. (1947)
- GARETH HUGHES, Lecturer in Dramatics.  
(1947)
- EDWARD M. HULME,<sup>1</sup> A.M., Lecturer in History and Political Science.  
A.B., Stanford University, 1897; A.M., Cornell University, 1902.  
(1947)
- LAURABEL HUME, M.A., Assistant in English.  
B.A., Scripps College, 1933; M.A., Stanford University, 1935.  
(1947)
- MILDRED KLAUS, B.A., Assistant in Secondary Education.  
B.A., University of Nevada, 1926. (1941)
- ROSE NANNINI MEREDITH, B.A., Assistant in Foreign Languages.  
B.A., University of Nevada, 1947. (1947)
- ABRAHAM RAVVE,<sup>2</sup> 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. (1943)
- LOUIS V. SKINNER, LL.B., Lecturer in Business Administration.  
B.S., University of Nevada, 1927; LL.B., University of Oregon, 1935. (1947)
- HARRIET BEACH SPENCER, B.A., Assistant in English.  
B.A., University of Illinois, 1922. (1944)
- LUCILLE KATHRYN SULLIVAN, B.A., Assistant in English.  
B.A., University of Nevada, 1945. (1946)
- JANICE EILEEN SWAN, B.A., Assistant in English.  
B.A., Stanford University, 1946. (1946)
- ROBERT NORMAN TOMPSON, B.S., Assistant in Mathematics.  
B.S., Adrian College, 1941. (1947)

<sup>1</sup>Absent on leave.<sup>2</sup>Resigned February 1, 1948.

RUTH VAN DYKE, B.A., Assistant in Mathematics.

B.A., University of Minnesota, 1914. (1946)

MARGARET JENSEN WILLIAMS, M.A., Assistant in Mathematics.

B.S., University of Nevada, 1938; M.A., 1940. (1941)

THOMAS C. WILSON, B.A., Lecturer in Business Administration.

B.A., University of Nevada, 1930. (1948)

ETHEL CROUCH WRIGHT, B.A., Assistant in Psychology.

B.A., 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, SCOTT, TRANER, WHEELER.

*Admission, Entrance Examinations, and Advanced Standing—*

DEMING, HICKS, S. PALMER, RHODES, WITTEW, WOOD.

*Advisory Council—*

BEESELY, BILLINGS, GIANELLA, GORRELL, INWOOD, POPE, SANDORE,  
SEARS, SMYTH.

*Assemblies and Lectures—*

GORRELL, ELDRIDGE, A. S. U. N. President.

*Athletics—*

WILSON, RHODES.

*Campus Calendar for Student Activities—*

GRIFFIN, MARTIE, 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, LAIRD, LEIFSON, SEARS, WITTEW.

*Health—*

LOWRANCE, GRIFFIN, LOCKE, MARTIE, MOBLEY, SMEE, A. S. U. N.  
President, A. W. S. President.

*Library—*

CHAPPELLE, ELDRIDGE, HICKS, HILL, W. PALMER, SR., SWIFT, WEB-  
STER, WILLIAMS.

*Orientation—*

IRWIN, BYRD, DEMING, GORRELL, GRIFFIN, MOBLEY, MERGEN, MOOSE.  
SANDORE, 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, WITTEW.

*Research—*

BILLINGS, BEESELY, HARRIS, HICKS, IRWIN, MELZ, SEARS, VAWTER,  
WHEELER.

*Rhodes Scholarship Nominating Committee—*

LEIFSON, WEBSTER.

*Schedules—*

WILLIAMS, HICKS, LEHENBAUER, VAN DYKE.

*Scholarships and Prizes—*

BROWN, CARPENTER, GRIFFIN, 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.

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# Sketch of the University

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## 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 ten-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. During the same year, work in agriculture was unified through the appointment of an over-all Dean of Agriculture responsible for the College of Agriculture, the Agricultural Experiment Station, and the Agricultural Extension Division. 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 and Art. 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, with enrollments of more than 1,700 students, continued its post-war program during 1947-1948.

## 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 for later specialization.

During the first two years the student receives basic instruction in English, foreign languages, and 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 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.

## THE COLLEGE OF AGRICULTURE

The College of Agriculture curricula lead to the degree of Bachelor of Science in Agriculture with majors in agricultural economics, animal production, plant production, agricultural education, and general agriculture. 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 Department of Home Economics is in the College of Agriculture. The curricula include three majors: teaching, foods and nutrition, and general. 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.



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## THE ADMINISTRATION

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### 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.<sup>1</sup> 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 encroach 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 Dean shall be chairman of the faculty and ex officio a member of all committees. The action of each faculty is subject to the

<sup>1</sup>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.

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.

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# THE UNIVERSITY PLANT

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## 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, east of Manzanita lake. The first floor includes administration offices, classrooms, and a large lecture room. The second floor is devoted to home economics and biology, and includes the dining room and the food and clothing laboratories, as well as the biological 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**—A one-story brick building on the west side of the campus, scientifically equipped and accommodating 350 students. (1926; enlarged 1945)

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\*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, 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, 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 concreté, brick and stone building, located on the flat east of the quadrangle, and facing west. It houses the Departments of Civil and Mechanical Engineering. 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, north of the quadrangle. The main floor contains a large playing court flanked on either side by balconies for spectators. When used as an auditorium the main floor seats approximately 3,500. The building provides offices and facilities for the Departments of Physical Education, Athletics, and Military. (1943)

**OLD GYMNASIUM**—A brick building north of the quadrangle. It is in temporary use as a dormitory for men. The basement contains the indoor rifle range. (1897; extension, 1922; converted for temporary use as a men's dormitory, 1946.)

**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.)

**JOURNALISM BUILDING**—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. In 1947 it was remodeled as a Journalism Building. (1913)

**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. In the basement are storerooms, laboratories, the museum, and the shower and locker rooms for the students. On the first floor are classrooms, laboratories, offices, a library, and the Mackay museum. 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, maproom, petrography grinding and polishing room, classrooms, and laboratories. (1908; enlarged, 1926)

**MACKAY SCIENCE HALL**—A reinforced concrete, fireproof, brick and stone building, housing the Departments of Chemistry, Physics, and Mathematics. A full basement and a subbasement 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 dormitory building, located on Manzanita Lake. It accommodates 100 women students.

**MECHANICAL BUILDING**—A two-story brick structure, 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 and the Comptroller. 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)

**QUONSET HUTS**—A number of quonset huts have been erected on the campus to provide temporary office and classroom space. Buildings located on the quadrangle north of Stewart Hall contain offices of the Dean of Men, the Dean of Women, the Alumni Secretary, the Registrar, and the Director of Admissions. Buildings northeast of the New Gymnasium are used for storage and for classes in military science and tactics.

**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.

**TEMPORARY DORMITORIES**—Temporary housing for veteran students has been provided in the Highland Terrace dormitories, housing about 130 men, and located at Beech and Highland Streets; in the 112 apartments for married students at Victory Heights, located at the end of Evans Avenue; and in the 36 units of the University Trailer Court on West Second Street.

**TEMPORARY ENGLISH AND ART BUILDINGS**—Prefabricated metal buildings, east of the quadrangle. The buildings were provided by the Federal Government from war surplus as temporary housing for the Departments of English and Art. (1947)

**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 DAIRY FARM**—The University 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 from E. L. Cord in 1945.



Instruction and laboratory work in Dairy Husbandry is conducted on this farm.

**THE UNIVERSITY FARM**—The University Farm, for general purpose of agricultural instruction, comprises 213 acres and was purchased by the State in 1917. It is located two miles south of Reno along Virginia Road and Hash Lane. From July 1931 to October 1, 1947, this farm was leased to private interests. During this time substitutional arrangements for using equipment and livestock of private farms were in effect in connection with dairy and poultry courses. At the present time, effort is being made to rejuvenate this farm and to coordinate it with the instructional program at the University.

### 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.

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.

#### MILITARY LIBRARY

The Military Department maintains in the New Gymnasium a reference library of over 300 volumes on military, economic, and historical subjects.

#### 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 library 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 apparatus, instruments, and greenhouse facilities necessary for university-level teaching and research in the life sciences and has the use of the University Herbarium, a biological library, and a museum. Transportation is provided for field work in taxonomy, entomology, plant ecology, vertebrate zoology, and wildlife management.

**CHEMICAL**—The Mackay Chemical Laboratory occupies the north half of Mackay Science Hall. In addition to the laboratory rooms for general, analytical, organic and physical chemistry, it contains special balance rooms, a dark room, a large lecture demonstration room, a department library and several small laboratories for advanced study and research. All laboratory rooms are designed for individual student work and equipped with efficient fume hoods.

**JOURNALISM**—Instruction in the Department of Journalism profits from the use of three laboratories. The newsroom 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 Evening Gazette, the Nevada State Journal, the Reno Bureaus of the United Press Associations and the Associated Press, the Thomas C. Wilson Advertising Agency, the States Advertising Agency, Radio Station KOII, Radio Station KWRN, the Carson City Nevada Appeal, and other journalistic organizations serve as laboratories for students in the course in journalism internship.

**MUSIC**—The Department of Music has a varied collection of records and books and a Capeheart phonograph, including a collection of representative records donated by the Carnegie Corporation of New York City in 1935. Records, scores, and phonograph are available to the student body and the community for

special reference use in the music rooms. The University also provides a number of musical instruments for student use.

**PHYSICS**—The physics laboratory, in the south wing of Mackay Science Hall, includes adequately equipped laboratories for general physics and electrical measurements. Contributing to the effectiveness of the laboratories are special rooms for advanced work and study of radio, a storage battery room, a constant-temperature research room, a photometry room, a generator room, a shop which includes glass-blowing equipment, storerooms, and a steel and concrete vault for storing precision instruments.

#### ELECTRICAL ENGINEERING LABORATORIES

*Electrical Machinery*—The electrical machinery laboratory is completely equipped with power sources and electrical machines making possible every type of direct and alternating current experiment.

*Small Motors*—The small motors laboratory provides facilities to test generators, transformers, selsyns, amplidynes, etc.

*Electronics*—The most modern facilities are available for the study of fundamental electronic tubes and circuits.

*Industrial Electronics*—Modern equipment is at the disposal of students for the study of radio frequency, heating, welding, electronic control of machines, power rectification, and photo-electric devices.

*X-ray*—150 KV X-ray equipment is available for industrial and other purposes.

*Radio*—The radio laboratory is completely equipped with transmitters, receivers, radar, and other equipment covering the frequency spectrum up to the highest micro-wave frequencies.

*Communication*—The wide range of equipment available permits comprehensive study of communication circuits, such as transmission lines, filter, carrier systems, microphones, loudspeakers, etc.

In addition to the above laboratories, mobile radar equipment is available for the use of students. Also available to students in electrical engineering is the electronic equipment of the United States Naval Reserve, housed in the Armory on the campus.

#### MECHANICAL ENGINEERING LABORATORIES

*Engineering Materials and Processes*—This laboratory is equipped with the basic machines used in manufacturing processes. The welding section of the laboratory includes A.C. and D.C. welding as well as gas welding equipment.

*Instruments and Calibrations*—The instruments and calibrations laboratory is equipped with the usual test instruments, calorimeters, etc.

*Internal Combustion*—The internal combustion laboratory is equipped with a CFR diesel testing engine including a 15hp dynamometer, a 100hp dynamometer for general use, and a 150hp diesel engine generator set.

*Steam*—The steam laboratory is supplied by a high pressure tubular boiler which can produce saturated steam or superheated steam as is desired. A de-aerating feed water heater and chemical treatment is provided for use with the steam generator.

*Air Conditioning*—This section of the laboratory provides for a variety of measurements related to heating, cooling, and humidifying a well-insulated room.

*Mechanical Vibrations*—This section of the laboratory is provided with equipment to investigate critical speeds in rotating machinery.

*Mechanical Refrigeration*—This section of the laboratory contains a complete compression type refrigerator built especially for testing purposes and also arranged so that it can act as a service unit for cooling of the air conditioning room.

#### CIVIL ENGINEERING LABORATORIES

*Fluid Mechanics*—The fluid mechanics laboratory is equipped with pumps, wiers, metering devices, and other equipment to enable detailed studies of the flow of fluids and of the energy available from water in motion.

*Surveying*—The surveying laboratory is equipped with transits, levels, theodolites, tapes, rods, plane tables, and such equipment as is necessary to give the student in surveying opportunity to become familiar with the use and operation of surveying equipment.

*Testing*—The testing laboratories are equipped with two Universal testing machines, an impact testing machine, a hardness tester, a torsion machine, and equipment for studying the properties of nonmetallic materials.

#### MINING SCHOOL LABORATORIES

*Assay*—The fire assay laboratory in the Mackay Building is equipped with furnaces and other equipment for assay work. A storeroom, a grinding room for the preparation of samples, and a weighing room are included in the laboratory equipment.

*Chemical*—Laboratory facilities are provided on the first floor of the Mackay Building for chemical research and study in connection with mining and metals.

*Geological and Mineralogical*—The Department of Geology is provided with reference collections illustrating ores, minerals, rocks, and fossils, with class collections for determination, and

with publications and maps of the United States Geological Survey and foreign surveys. The mineralogical laboratory is equipped for blow-pipe and chemical work.

*Petrographic*—The petrographic laboratory includes equipment for sawing, grinding, and polishing, along with a large collection of slides and hand specimens of rocks and minerals.

*Seismographic*—Records of the seismograph in the Mackay Building are used chiefly for the study of earthquakes of local origin.

*Metallurgical Laboratories*—The metallurgical laboratories are excellently equipped with apparatus to conduct experiments and tests in ore dressing and hydrometallurgy. They include apparatus for microscopic study of metals and fire assaying, and some electro-metallurgical apparatus.

*Metallographic*—The metallographic laboratory is equipped with grinding and polishing equipment, photomicrographic cameras and other instruments for metallographic analysis.

*Electro - Metallurgical*—An electro-metallurgical laboratory, with furnaces and generating equipment, is located in the Mackay Building. Additional equipment is available in the United States Bureau of Mines Building.

*Mining*—The mining laboratory has equipment and machinery for practical mining experience. The operating mines of the Comstock Lode are near enough to offer opportunities for student study of operating mining equipment, both surface and underground.

#### AGRICULTURAL LABORATORIES

*Dairy*—The dairy laboratory in the Agricultural Building contains machinery for the manufacture of butter, ice cream, and cheese and equipment for sterilizing utensils. It also has full equipment for making quantitative and qualitative tests of all dairy products.

*Experiment Station Chemical*—The experiment station chemical laboratory, equipped for research and analysis, is used for work in relation to the agriculture of the State and to the research projects of the Agricultural Experiment Station.

*Farm Crops, Range, and Pasture Management*—This laboratory classroom contains samples of seeds of most of the important crop plants of the United States and maintains dried matured cereal, forage crops, range plants, and weed specimens for student use. Analytical balances, chemicals, and spray equipment are available for training in weed control. The equipment includes apparatus for sampling and grading grain and forage seeds and for making range forage studies and utilization estimates. In practice the laboratory extends to the fields and ranges

of the State which are visited by classes and from which materials are brought to the campus. The University Farm is particularly useful in teaching forage crops and weed control.

*Farm Mechanics*—The farm mechanics laboratory is equipped to give instruction in all phases of mechanical work which are considered essential to operating a mechanized farm. The facilities are ample for research and development of problems in various related fields.

*Soils Research Laboratory, Experiment Station*—The soils research laboratory is equipped for conducting research on soils and soil fertility. Its facilities provide for both micro- 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 and a small experimental greenhouse are part of the equipment.

*Veterinary Science*—The veterinary science 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 twelve, and a small adjoining laboratory accommodates one.

*Clothing*—The clothing laboratory is equipped with tables, sewing machines, and small equipment needed for work in clothing. Twenty students may be accommodated. 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 mam-

mal 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.

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# Information for Students

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## 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.

## 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.<sup>1</sup>

	Low	Moderate	Liberal
<sup>2</sup> Tuition.....	None	None	None
Board, 8½ months.....	\$390.00	\$415.00	\$440.00
Room.....	80.00	135.00	270.00
<sup>3</sup> Laundry.....	25.00	35.00	50.00
<sup>4</sup> Books, stationery, etc.....	60.00	75.00	90.00
Fees (laboratory, athletic, health service, etc.).....	74.00	80.00	96.00
Fee (registration and incidental).....	25.00	25.00	30.00
<sup>5</sup> Totals.....	\$654.00	\$765.00	\$976.00

<sup>1</sup>For a more detailed consideration of these expenses, see *Tuition, Fees, and Conditions* below, or consult the index for page references.

<sup>2</sup>The low and moderate estimates apply to residents of dormitories. The

## 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 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 statement from the Compiled Laws of Nevada which governs the payment of nonresident tuition.

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liberate estimate, with the exception of books and fees, applies to students living elsewhere.

<sup>2</sup>Students from outside the State of Nevada must add a tuition of \$100 each semester.

<sup>3</sup>This item may be greatly reduced by residents of the dormitories who choose to take advantage of the house-laundry facilities.

<sup>4</sup>All engineering students will require complete drawing outfits and slide rule. These cost from \$55 to \$65. Students having this equipment should bring it with them.

<sup>5</sup>These amounts do not include the deposit of \$10 required of all students at the beginning of the 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.

WHEN THE REGENTS MAY CHARGE TUITION. Section 7735, Chapter 167, Statutes of Nevada 1945, paragraph 10. *The board of regents of the University of Nevada shall have the power to fix a tuition charge for students at that university; provided, however, that tuition shall be free*

- (a) *to all students whose families are bona-fide residents of the State of Nevada, and*
- (b) *to all students whose families reside outside of the State of Nevada providing such students have themselves been bona-fide residents of the State of Nevada for at least six months prior to their matriculation (first registration) at the University.*

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 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.

### 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 accommodations. 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.

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.

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\*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.

*Mens' Residence Halls*—The University is currently providing living accommodations 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.

The Dean of Men reserves the right to reject an application when in his opinion the applicant would not be a desirable resident of a dormitory.

The Dean of Men reserves the right to require a student to vacate his room space when in his opinion the conduct of the student is contrary to the best interests of the dormitory and the University.

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 Accommodations*—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  $\frac{4}{5}$  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, and is not rebated.

#### 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. These fees are not rebated.

#### 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.

Cadets taking drill as part of a basic course must make a deposit of \$20. NOTE—No deposit is required of advanced students.

#### LABORATORY FEES

LABORATORY FEES—Departments giving laboratory courses must charge fees to cover special expenses incidental 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.

#### VISITORS' FEES

Students securing the privilege of visiting classes will be charged a fee of \$2 per course credit hour.

#### TABLE OF TUITION CHARGES, FEES AND DEPOSITS

	PER SEMESTER	Fees
Agronomy 346, 359, 360, 468.....		\$5.00
Agronomy 216, 315, 316, 317, 318, 401, 415, 464.....		3.00
Agronomy 201, 202.....		2.00
Animal Husbandry 203.....		10.00
Animal Husbandry 356, 359.....		5.00
Animal Husbandry 461, 462.....		3.00
Art 101, 102, 103, 105, 106, 253, 254.....		3.00
Associated Students Fee.....		13.00
Bacteriology 351.....		5.00
Botany 103, 355.....		4.00
Botany 203, 231, 364, 475, 476.....		4.00
Botany 222.....		1.00
Botany 315, 317, 375.....		2.00
Botany 370.....		2.00 per lab. credit
Business Administration 221, 222.....		5.00
Change of registration per course (see page 87).....		1.00
Chemistry 101, 102, 231, 232, 242, 312, 333, 341, 342, 391, 443, 497, 498, 514, 546, 553, 554.....		8.00
Chemistry 451, 452.....		4.00
Chemistry 599 (fee per credit hour).....		4.00
Civil Engineering 241.....		3.00
Civil Engineering 242, 363, 367.....		5.00
Civil Engineering 369, 372.....		4.00
Dairy Husbandry 102, 354, 355.....		5.00
Dairy Husbandry 454.....		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).		

	<i>Fees</i>
*Diploma (Degree or certificate).....	\$6.00
Drawing Outfits.....	20 to 30.00
Education 133.....	1.50
Education 141.....	2.00
Education 388.....	1.50
*Electrical Engineering 31-32, 91, 92, 93, 94.....	5.00
Electrical Engineering 353, 354, 457, 463, 464, 469, 481, 482.....	5.00
Farm Mechanics 211, 220, 332, 335, 341, 353, 346.....	5.00
Farm Mechanics 312.....	7.50
Geology 211, 351, 325, 352.....	2.00
Geology 212.....	3.00
Health Service .....	6.00
Home Economics 255, 494.....	15.00
Home Economics 131, 132, 357, 483, 485.....	8.00
Home Economics 250.....	5.00
Home Economics 499.....	12.00
Home Economics 115, 116, 118, 366, 367, 495, 496.....	4.00
Home Economics 253, 488.....	2.00
Home Economics 487.....	3.00
Library .....	2.50
Matriculation (new students only).....	5.00
Mechanic Arts 103, 205.....	5.00 per credit
Mechanic Arts 226.....	5.00
Mechanic Arts 220.....	7.50
Mechanic Arts 207.....	(To be arranged)
Mechanical Engineering 364, 365.....	5.00
Mechanical Engineering 480.....	2.50 per credit
Metallurgy 341.....	15.00
Metallurgy 356.....	2.50
Metallurgy 368, 471.....	5.00
Metallurgy 479, 480 (Fee according to work).	
Physical Education (Men).....	1.00
Physical Education (Women).....	2.50
Physics 153, 154, 119, 357, 358, 363, 377, 378.....	3.00
Physics 205, 206, 493, 494.....	1.50 per credit
Physics 368.....	5.00
Physics 375, 376.....	6.00
Poultry 101.....	5.00
Poultry 108.....	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
Teacher Appointment Service.....	2.50, 1.50
Transcript Evaluation .....	2.00
*Transcript of student record.....	1.00

<sup>1</sup>Fee depends on project undertaken.

<sup>2</sup>If two diplomas are 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.

\*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.

	<i>Fees</i>
Tuition to non-Nevadans.....	\$100.00
Visitors .....	2.00 per hour
Vocational Interest Test, Cost of Material.....	.25
Zoology 103, 259.....	4.00
Zoology 333, 335, 337.....	2.00
Zoology 101, 322, 352, 364.....	3.00
Zoology 346.....	5.00
Zoology 491 (fee determined by type of work).	
Zoology 209, 211.....	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, library, and hospital 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 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 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, and enough material to qualify her to direct physical education.

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 under the direction of a faculty adviser. 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 in as many activities as possible.

Upon entering, and at the beginning of each year, medical and 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 \$3 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.

### 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 is organized under authority contained in the National Security Act. The primary objective of this training is to qualify students for positions of military leadership in time of national emergency. The basic training of the first two years lays the practical and theoretical foundations of general military knowledge and contains most of the subjects essential to a noncommissioned officer's rating. The local units offer Infantry and Air Force training. Basic work

in the two courses is identical. Completion of basic courses or their equivalent is a prerequisite for enrollment in advanced courses.

2. 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.

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

Freshman Year (basic) Military 101, 102.

Sophomore Year (basic) Military 201, 202.

Junior Year (advanced) Military 301, 302, 303.

Senior Year (advanced) Military 401, 402.

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 work at the college level.

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

Freshman Year (basic) Military 101, 192.

Sophomore Year (basic) Military 201, 202.

Junior Year (advanced) Military 311, 312, 313.

Senior Year (advanced) Military 411, 412.

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 Department of the Air Force and may be commissioned as soon as he has reached the age of 21 and has completed four years of work at the college level. Only upperclassmen in the Engineering College are eligible for enrollment in the advanced course. All specialize in Aircraft Maintenance Engineering. No pilot training is offered in this course.

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

7. The following are prohibited by law 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 basic 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.

8. The following may be granted exemptions by the PMS&T:

a. Those who have satisfactorily completed, at an educational institution, equivalent training under supervision of an officer of the Army regularly detailed as PMS&T. Exemptions may cover part or all of basic training. A student who enters with one year of advanced standing in Military, will be exempted during his freshman year and enrolled in the second year of military work during his sophomore year.

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. Six months of active duty is generally accepted as the equivalent of one year of basic training at the University. Active service sufficient to justify exemption from the basic requirement is sometimes insufficient when evaluated as a prerequisite for an advanced course.

c. Those who are physically unfit for military duty. Physical examination is prerequisite to initial enrollment either in a basic 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.

e. Students who have completed equivalent training in the Naval Reserve or the Marine Corps Reserve. Freshmen enrolled in either of these reserves may have the University military requirement deferred for one year. Their reserve training during this year will be evaluated by the PMS&T at the beginning of the sophomore year. Failure to acquire the normal total of two substitute credits will be deemed sufficient justification for requiring the full two years of ROTC training thereafter.

9. 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 \$24 per month for 18 months, providing this does not duplicate other allowance.

10. 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 basic military courses, with the exception of military bandsmen.

11. Cadets who obtain reserve commissions are eligible for immediate active duty as Reserve Officers for tours of one to three years. Air Force officers are eligible for a year of pilot training. Any Infantry or Air Force Officer on such active duty may embark on a three year competitive tour with a view of obtaining a permanent commission in the regular service. Present quotas indicate that about one-sixth of those on competitive tours will win permanent commissions. Reserve Officers may transfer in grade to the National Guard to fill existing vacancies.

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.

13. For the past four years, the University has been canvassed during the winter for those interested in obtaining appointments as cadets at the service academies. These appointments are for four years, all expenses paid by the government, with permanent commissions upon graduation. The list of academies includes West Point, Annapolis, and the Coast Guard Academy.

#### HONORS AND AWARDS FOR MILITARY EXCELLENCE

*Distinguished Graduates.* During the second year of advanced training, a limited number, not exceeding one-third of the class enrollment, will be announced as Distinguished Students. Upon graduation from both the ROTC and the University, some of these will be designated as Distinguished Graduates. Any distinguished Graduate is eligible for a permanent commission in the regular service without further qualification. Those who aspire to regular commissions should consult with their military instructors regarding coordination of courses outside the Military Department.

*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 three best-drilled first year cadets will receive gold, silver, and bronze medals. The name of the winner will be engraved on a permanent trophy which remains in the possession of the Military Department.

*Scabbard and Blade Medals.* At a competition to be held in April, the three best-drilled second year cadets will be chosen. Scabbard and Blade presents to them a gold, a silver, and a bronze medal.

*Reserve Officers' Association Award for Best Second Year Cadet.* The name of the winner of the Scabbard and Blade Gold Medal 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.

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# UNIVERSITY REGULATIONS

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

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

### 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 chairmen 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 courses 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* in the 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 not graduates of Nevada high schools 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 geometry

*The College of Engineering<sup>1</sup>*

English, 3 units  
 History, 1 unit  
 Plane geometry, 1 unit  
 Algebra,  $1\frac{1}{2}$  units  
 Solid geometry or trigonometry,  $\frac{1}{2}$  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 (1-33) 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.

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<sup>1</sup>It is recommended that the entering student present all the subjects here listed, especially that of  $1\frac{1}{2}$  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 151 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 <sup>1</sup>
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).....	$\frac{1}{2}$ or 1
7. Economics.....	1
8. Sociology.....	1
9. Commercial Law.....	$\frac{1}{2}$ or 1
10. Commercial Geography.....	$\frac{1}{2}$ or 1
11-12. Others.....	
13. Algebra (a).....	1
Plane Geometry (b).....	1
Advanced Algebra (c).....	$\frac{1}{2}$
Solid Geometry (d).....	$\frac{1}{2}$
Trigonometry (e).....	$\frac{1}{2}$
Other nonvocational courses.....	$\frac{1}{2}$
14. General Science.....	1
15. Physics.....	1
16. Chemistry.....	1
17. Physical Geography.....	$\frac{1}{2}$ or 1
18. Botany.....	$\frac{1}{2}$ or 1
19. Biology.....	$\frac{1}{2}$ or 1
20. Physiology or Hygiene.....	1
21. Drawing.....	$\frac{1}{2}$ to 2

<sup>1</sup>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

<i>Subject</i>	<i>Units</i>
22. Music.....	$\frac{1}{2}$ to 2
23. Agriculture.....	$\frac{1}{2}$ to 4
24. Home Economics.....	$\frac{1}{2}$ to 4
25. Manual Training.....	$\frac{1}{2}$ to 3
26. Shopwork.....	1 to 3
27. Bookkeeping.....	$\frac{1}{2}$ to 3
28. Stenography.....	$\frac{1}{2}$ to 3
29. Typewriting.....	1 to 2
30. Trades and Industries.....	$\frac{1}{2}$ to 4
31. Vocational Work.....	1
32. Commercial Arithmetic or Applied Mathematics.....	$\frac{1}{2}$ 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 the regulations prescribed by the Administrative Council the student must (a) present his admission card in order to 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, (f) present his admission card in order to receive the approval of the dean of his college, (g) present the registration card to the Registrar for computation of fees to be paid, and (h) 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 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, library, and hospital 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 101-102.* All students must register for English 101 and 102 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 two-year basic course of military training unless excused therefrom by the PMS&T. This basic course is scheduled for both semesters of the freshman and sophomore years.

d. *Political Science 301-302.* 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 301 and 302.

#### 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. This rule applies also to changes in registration.

(4) The registration of a student enrolled for the second time in courses in order to remove entrance deficiencies 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 300 AND ABOVE. No course with the number 300 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<sup>1</sup> 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. 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.

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<sup>1</sup>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.

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 on probation until released therefrom by action of the Administrative Council. To be removed from probation, a student must raise his scholastic 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. *Department*—

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 at the University of Nevada 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.

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 101 and 102; the two-year basic course in

military science for men, and in physical education for both men and women, and Political Science 301 and 302.

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 credit the student must obtain an application from the Admission Office. When this application is properly signed by the student, the Instructor and the Chairman of the Department, and carries the Comptroller's Stamp showing that the fee of \$3 is paid, it should be returned to the Chairman of the Committee on Advanced Standing. A certificate of eligibility to take the examination will be issued, signed by the Chairman of the Committee. When this certificate is presented to the Instructor, the examination is authorized.

The Instructor will record the semester hours credit, the grade, and his signature on the certificate and together with a copy of the examination return it to the Admissions Office.

The amount of credit granted on the basis of such special examinations may not exceed the regular work of one semester in the college in which the student is registered.

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

No Freshman or Sophomore student may take such an examination in Upper Division Courses.

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.

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\*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.

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 \$6 is made for all baccalaureate diplomas. If two diplomas are granted in any one year, the charge will be \$6 for the first, and \$5 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 who have completed three years of approved work here may complete the work of the Senior year by satisfactory work in a professional school.*

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 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.

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## MISCELLANEOUS INFORMATION

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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 1947-1948 are the following:

#### COMMENCEMENT, 1947

- June 7—Phi Kappa Phi Address, "Some Aspects of Human Freedom," by Dr. Henry Greenwood Bugbee, of the University of Nevada.
- June 8—Baccalaureate Address, "Unchanging Truth in a Changing World," by Thomas D. Ewing, Director and Pastor, Westminster House, University of California.
- June 9—Commencement Address, "Reality in 1947," by Dr. John Wendell Dodds, Dean of the School of Humanities, Stanford University.

#### PUBLIC LECTURES AND ASSEMBLIES

- May 14—"Alaska, Present and Future," by Sydney R. Montague, authority on Alaska.
- August 4—"Adventures in Creative Writing," by Professor Walter Campbell, writer, and teacher of creative writing at the University of Oklahoma.
- November 12—"The Development and Problems of Palestine," illustrated lecture by Dr. Theodore Jackman, authority on Palestine.

- November 13—"Arabs and Jews in Palestine," illustrated lecture by Dr. Theodore Jackman.
- January 13—"Paricutin, the World's Newest Volcano," illustrated lecture by Dr. Howell Williams, under the auspices of the Sigma Xi club.
- January 17—"Life in Modern Turkey," lecture with recordings and motion pictures, given by Mr. Tahsin Karacabey, Turkish student at the University of Nevada.
- February 9—"The Fine Art of Living," and "Literature and American Culture," lectures by Dr. Edward Howard Griggs, noted teacher, writer, and lecturer.
- February 25—First "University Music Hour," concert by the Lorolu Trio.
- March 12—"What Europe Expects from America," lecture by Dr. Norman Buchanan, lecturer and author formerly of the University of California.
- March 15—"What to Expect from Russia," a Robert Lardin Fulton lecture by John Scott, of the European staff of *Time* magazine.

### 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 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 Associated Students of the University of Nevada.

*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 on June 1, 1895, to perpetuate undergraduate ties, promote good fellowship, and to advance and protect the interests of the University of Nevada. On December 23, 1947, the Association was incorporated under the laws of the State of Nevada, and its official title is now The University of Nevada Alumni Association, Inc.

All graduates and former students of the University are eligible for membership in the Association. Active membership is maintained by payment of dues. Annual membership is \$3, and a life certificate is \$100. The Association now operates on a calendar year with a general meeting and election of officers held each Homecoming.

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. Chapters have also been chartered at Elko and Winnemucca. In addition, there are chapters in Washington, D. C., and in Southern California (Los Angeles).

The general affairs of the Association are managed by an Executive Committee composed of a maximum of fifty directors who are elected each Homecoming along with the Association officers. Regular meetings of the group are held on the third Wednesday of each month in the Alumni Office on the campus.

All matters pertaining to the Association should be addressed to: Alumni Association, University Station, Reno, Nevada.

### Officers for 1947-1948

Mark Yori, '36.....	President
Louis Peraldo, '41.....	Vice President
Wayne Hinckley, '27.....	Past President
Rex Daniels, '46.....	Director of Alumni Office

Alumni Executive Committee

Central

Lino del Grande, '34.	Walter States, '38.
Nevada Pedrolí, '27.	Leon Etchemendy, '42.
Mel Hancock, '30.	Charles Mapes, '42.
John Benson, '36.	Joe T. McDonnell, '33.
Bill Blakley, '32.	Rodney Boudwin, '44.
Gladys McDonnell, '34.	Jack Myles, '33.
George Lohse, '35.	Carl Digino, '47.
Blythe Bulmer, '33.	Bill Parish, '45.
Kelly Lyon, '29.	Merle Snider, '43.
Jack Walther, '31.	Max Jensen, '38.
Myneer Walker, '41.	Jim Melarkey, '47.
Sessions Wheeler, '34.	Georgia Cole, '36.
Loriamae Bankofer, '36.	Anthony Zeni, '22.
Frank McCulloch, '41.	

Regional

Kirk Day, '46.....	Winnemucca
Pete Walters, '34.....	Elko
Wes Goodner, '42.....	Fallon
Harley Harmon, '46.....	Las Vegas
Marjorie Phillips, '41.....	Las Vegas
Ray Hackett, '41.....	San Francisco, California
Dave Williamson.....	Hawaii
Elbert Walker, '34.....	New York, New York
Eugene Tidball, '47.....	Ruth
Emery Graunke, '37.....	Gardnerville
Margery Cavanaugh, '34.....	Tonopah
Fred Baldini, '31.....	Battle Mountain
Sam Arentz, '34.....	Pioche
Ken Johnson, '34.....	Carson City
Eva Adams, '28.....	Washington, D. C.
Ed Montgomery, '34.....	San Francisco, California
Catharine Huntley, '20.....	Riverside, California
Dave Jackson, '32.....	Fernley
Hank Clayton, '41.....	Yerington
Bill Melarkey, '20.....	Hawaii

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 men on the faculty 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.

*Delta Sigma Rho*—National honor society composed of graduate and undergraduate forensics students. Admission is restricted to those who have achieved an outstanding record in intercollegiate forensic competition. Its prime object is to emphasize the value of effective and successful speech and debate. The Nevada chapter was established in 1948.

*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.



*Pershing Rifles*—A national honorary military society for cadets enrolled in basic courses. A petition for a local chapter has been submitted to the national headquarters and it is expected that the new chapter will be installed before September, 1948.

*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*—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 Delta Chi*—National professional journalistic fraternity. Members are elected annually from among upperclassmen preparing for the profession of journalism and with above-average scholarship. The Nevada undergraduate chapter was chartered in the spring of 1948.

*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 held on the second Tuesday of each month.

*The Circle*—A group of male undergraduate students organized to further creative and critical literary activity at the University of Nevada.

*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 Commerce Club*—Open to any interested student, especially one following a course in economics or business. Leading businessmen discuss their particular fields at each of the monthly meetings.

*ROTC Corps of Sponsors*—The Corps of Sponsors is an organization closely allied with the ROTC Corps of Cadets. They have a distinctive uniform, drill with the Cadets, and stage exhibition drills. The unit is limited to 45 girls and 5 alternates. Election and tryouts are staged during the month of September subsequent to the opening of school.

*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.

*Fraternalities*—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' dormitories 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 Student Club*—A social and professional organization. A member of the American Home Economics Association. Open to all students in Home Economics. Meetings bimonthly.

*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.

*The Nevada Polkateers*—A social organization for the enjoyment of and participation in folk and square dancing. Membership is open to all students and staff of the University. Meetings are held weekly.

*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.

*The University of Nevada Rifle and Pistol Club*—An organization which sponsors all organized competitive shooting activities, indoors and outdoors. It is affiliated with the Nevada State Rifle and Pistol Association and with the National Rifle Association.

*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.

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## AWARDS AND SCHOLARSHIPS

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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 outstanding scholarship records, character, high personal conduct, and Americanism. The selection of the winners is made by the University Committee on Prizes and Scholarships.

## 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, good character, and citizenship.

## 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.

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\*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.



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 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 A. W. (BERT) CAHLAN SCHOLARSHIP  
*Established 1947*

A. E., John F., and Mrs. Marion Cahlan established a scholarship of \$200 to be awarded at Commencement to a senior, who, during his or her entire course at the University of Nevada, has manifested the most outstanding qualities of leadership and character and proved himself or herself to be the best citizen of the University community. In selecting the student who is to receive this award, not only is the number of activities in which the student has been engaged to be taken into consideration, but also loyalty to the highest ideal and traditions of the University and altruistic service in all activities in which he has participated.

This scholarship will be awarded by a committee named by the Donors, the award to be approved by the President of the University.

9. 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.

#### 10. 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.

#### 11. 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.

#### 12. 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.

## 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, good character, high personal conduct, 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 ROLAND HUMPHREY 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 and single.
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. For a student earning all or a part of his or her way.
8. To a student of sophomore, junior, or senior standing who has completed his or her freshman year of work at the University of Nevada.
9. It is understood that if the announced recipient of the scholarship does not return to the University, the scholarship will not be given that year.

One-half of this award is paid in the fall and the other half in the spring, at least six weeks after the opening of each 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 SCHOLARSHIP 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 woman 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 equal 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, character, and promise of good citizenship.

#### 27. THE EMPORIUM OF MUSIC SCHOLARSHIP

*Established 1944*

Mr. and Mrs. W. R. Woodward 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 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.

29. 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.

30. 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.

### 31. 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 extra-curricular 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.

32. RENO BUSINESS AND PROFESSIONAL WOMEN'S CLUB  
SCHOLARSHIP  
*Established 1945*

An annual scholarship of fifty dollars (\$50) shall be awarded by the Committee on Scholarships and Prizes and the Committee on Scholarships of the Reno Business and Professional Women's Club to a woman student with attention to the following requirements:

1. Good moral character.
2. Must be a graduate of a Nevada high school.
3. Must give promise of future achievement.
4. An average grade no less than the average grade of the University.
5. Sophomore or junior standing during the University year the scholarship is held.
6. Must be in need of financial assistance.

One-half of this award is paid in the fall and the other one-half in the spring semester.

33. 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 plus a special allowance of 100 pounds. 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.

#### 34. THE ROTARY CLUB OF RENO SCHOLARSHIP

*Established 1939*

Reno Rotary Club No. 248 awards an annual scholarship of \$250 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 \$31.25, due on the first business day of the months of February, March, April, May, September, October, November, and December.

#### 35. 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.

### 36. 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.

### 37. 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.

### 38. 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.

39. THE REUBAN C. THOMPSON SCHOLARSHIP IN PHILOSOPHY  
*Established 1948*

In recognition of the exceptional services rendered by Doctor Reuban Cyril Thompson to the University of Nevada, its students, and the community in which it is situated over a period of forty years as teacher, adviser, head of the Department of Philosophy and Dean of Men, a scholarship of \$100 is established in the Department of Philosophy. 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 Philosophy and the chairman of the Committee on Scholarships and Prizes, with attention to the following requirements: upright moral character, the student's intention to complete a minor or major in the Department of Philosophy, outstanding scholastic ability in this department.

One-half of the scholarship will be paid in the fall semester and the other half in the spring semester following the announcement of the award, provided the recipient is then regularly enrolled as a student at the University.

40. 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.

41. 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.

<i>Lecturers</i>	<i>University Year</i>
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
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
MR. JOHN SCOTT.....	1947-1948

### 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

\*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.

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, 1640 Knox Drive, Reno, 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.

*The Goodfellow Loan Fund*—William Goodfellow left in his will the sum of \$50,000, the income from which is to be used for a student loan fund.

#### 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 substantial donations are given to it, either in general endowment or in donations which will be of benefit to the student body as a whole. 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. Muehlmeier, owner of the Muehlmeier Heat Treating 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.

1947—

Mr. William A. Pappas of Reno—\$500 to be applied toward the scholarship fund for the two Greek women students at the University.

Mr. Donald R. Warren of Los Angeles—\$500 to be added to the Donald R. Warren Student Loan Fund, which was established by him in 1946.

Mrs. Frank R. Payne of Reno—\$750 to the President's Discretionary Fund.

An anonymous local firm—\$250 as a contribution to the Student Union Building Fund.

The balance in the Special Welfare Fund (\$2,226.04), from the decommissioned U. S. S. Reno—Turned over to the University of Nevada to be set aside for aiding surviving children of men and officers killed in action or who died of wounds received while in action on the U. S. S. Reno.

Mrs. Thelma Mulert, mother of one of our students—\$300 to the President's Discretionary Fund, which was used, at her request, to bring Mr. Sydney Montague, noted lecturer and author, to the campus.

Mr. E. L. Cord of Esmeralda County—\$500 for purchase and distribution of 1,000 copies of Norton's *The Constitution of the United States; Its Sources and Application*.

Dr. and Mrs. B. H. Caples of Reno—Three boxes of books for the Library—French and Spanish novels and textbooks—which the University will have bound.

Mr. George Johnson of Reno—\$200 to the scholarship fund for the two Greek women at the University.

Mr. Peter Demosthenes of Reno—\$200 to the scholarship fund for the two Greek women at the University.

Mr. Marty Hess of Sonoma, California—\$50 to be used for some needed piece of equipment for the Physics Laboratory; also a set of scales to be added to his gifts for the Mackay Museum.

Mr. F. A. Sitton of Colorado, a friend of Mr. Hess—For the Mackay Museum, specimens of opals, placer gold, and uranium ore.

The Community Chest—Another donation of \$1,000 toward the salary of a University YWCA secretary.

James Glynn, Student Body President, and his father—About 2,000 valuable books to the University Library.

Admiral James Fife—A check for \$150 as a Christmas present to the University, which was credited to the President's Discretionary Fund.

Mr. William Pappas of Reno—\$250 toward the scholarship fund for our Greek woman student, Miss Angeline Constantinidou.

Mr. Harry Calury of Reno—\$100 toward the scholarship fund of Miss Constantinidou.



The Soroptimist Club of Reno—\$25 to the Student Union Building Fund.

Dr. Charles W. McNitt of Reno—\$50 for the English Department to use in the purchase of a collection of books.

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# The College of Arts and Science

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## 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<sup>1</sup> 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 300 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 301-302 as required by the State law.
- II. A minimum of six units in English 101-2<sup>2</sup> shall be required of all students.
- III. A minimum of sixteen units<sup>3</sup> 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.

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<sup>1</sup>Students who have majored in mathematics or science may on application to the Dean be granted the degree of Bachelor of Science.

<sup>2</sup>Subject to provisions stated under English Language and Literature, see Index.

<sup>3</sup>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 101-102 in another language.

With two entrance units: Course 103-104 in the same language or course 101-102 in another language.

With one entrance unit: Courses 102 and 103-104 in the same language.

With no entrance credit: Courses 101-102 and 103-104 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.

<i>Freshman Year</i>		<i>Units</i>
<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>
Military and Physical Education .....	½ to 1½	Military and Physical Education .....
English 101.....	3	English 102.....
Foreign language.....	}.....12 or 11	Foreign language.....
Social science.....		Social science.....
Natural science or mathematics.....		Natural science or mathematics.....
Elective.....		Elective.....
	—————	15½

<i>Sophomore Year</i>		<i>Units</i>
<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>
Military and Physical Education .....	½ to 1½	Military and Physical Education .....
Foreign language.....	}.....15 or 14	Foreign language.....
Social science.....		Social science.....
Natural science or mathematics.....		Natural science or mathematics.....
Elective.....		Elective.....
	—————	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 107, 110  
 History 101-102, 105-106  
 Philosophy 101, 107, 108  
 Political Science 101-102, 105-106  
 Psychology 121  
 Geography 101

GROUP 3—Natural Science or  
Mathematics—

Botany 103  
 Chemistry 101-102, 122, 124, 242  
 Mathematics 101, 102, 110  
 Physics 101-102, 107, 151-152,  
 153-154  
 Zoology 101, 103, 346  
 Geology 101, 102  
 Geography 103, 109

Subjects requiring a prerequisite or not open to freshmen:

Business Adm. 241, 243, 244, 247  
 Economics 201-202  
 Philosophy 221-222  
 Psychology 201, 205, 221, 231,  
 241  
 Sociology 201

Botany 203, 222, 231  
 Chemistry 231, 232  
 Geology 211, 212, 214  
 Mathematics 140, 151-152, 210,  
 220, 231-232  
 Physics 203-204, 205-206  
 Zoology 209, 211, 322

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 a number above 300 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.<sup>1</sup>

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.

<sup>1</sup>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  $2\frac{1}{2}$  more than the 126 hours required for graduation from arts and science and agriculture, respectively, for each semester they have been enrolled in engineering.

## 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 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 above 300. 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 300 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 above 300.

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 departmental chairmen.

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

<i>First Semester</i>	<i>Units</i>		<i>Second Semester</i>	<i>Units</i>	
	Chem. <sup>1</sup>	Tech. <sup>2</sup>		Chem. <sup>1</sup>	Tech. <sup>2</sup>
Chemistry 101 .....	4	4	Chemistry 102, 122.....	5	5
English 101 .....	3	3	English 102 <sup>3</sup> .....	3	3
Mathematics 151 .....	5	5	Mathematics 152 .....	5	5
Military 101 .....	1	1	Military 102 .....	1	1
Social Science .....	3	..	Social Science .....	2	..
Genl. Engineering 105.....	..	2	Mechanical Arts 103....	..	2
	<hr/>	<hr/>		<hr/>	<hr/>
	16	15		16	16

### Sophomore Year

<i>First Semester</i>	<i>Units</i>		<i>Second Semester</i>	<i>Units</i>	
	Chem.	Tech.		Chem.	Tech.
Chemistry 231 .....	3	3	Chemistry 232 .....	3	3
Mathematics 231 .....	3	3	Mathematics 232 .....	3	3
Physics 203 .....	4	4	Physics 204 .....	4	4
Physics 205 .....	1	1	Physics 206 .....	1	1
Economics 201 or Business Adm. 241.....	3	..	Economics 202 or Psychology 201 .....	3	..
Business Adm. 241.....	..	3	Psychology 201 .....	..	3
Military 201 .....	1	1	Military 202 .....	1	1
Electives .....	1	..	Electives .....	1	1
	<hr/>	<hr/>		<hr/>	<hr/>
	16	15		16	16

### Junior Year

<i>First Semester</i>	<i>Units</i>		<i>Second Semester</i>	<i>Units</i>	
	Chem.	Tech.		Chem.	Tech.
Chemistry 341 .....	4	4	Chemistry 342 .....	4	4
German 101 .....	5	5	German 102 .....	5	5
Chemistry 333 .....	3	..	Chemistry 312 .....	3	3
Chemistry 487 .....	½	..	Chemistry 488 .....	½	..
Mathematics 341 .....	..	3	Business Adm. 366.....	..	3
E. E. 323.....	..	2	Chemistry 362 .....	..	2
Electives .....	3½	3	Electives .....	3½	..
	<hr/>	<hr/>		<hr/>	<hr/>
	16	17		16	17

<sup>1</sup>Refers to requirements for Bachelor of Science in Chemistry.

<sup>2</sup>Refers to requirements for Bachelor of Science in Chemical Technology.

<sup>3</sup>Subject to provisions stated under English Language and Literature, see Index.

Senior Year

First Semester		Units	Second Semester		Units
Chemistry 451	.....	4	Chemistry 452	.....	4
German 109	.....	3	German 110	.....	3
Chemistry 487	.....	$\frac{1}{2}$	Chemistry 488	.....	$\frac{1}{2}$
Political Science 301	.....	1	Political Science 302	.....	1
Chemistry 497	.....	2	Chemistry 498	.....	..
Chemistry 461	.....	..	M. E. 364	.....	3
M. E. 353	.....	..	C. E. 372	.....	3
Chemistry 415	.....	3	Chemistry 482	.....	2
Elective	.....	$2\frac{1}{2}$	Elective	.....	$3\frac{1}{2}$
		<hr/>			<hr/>
		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

LEADING TO THE DEGREE BACHELOR OF ARTS IN JOURNALISM.

In its four-year professional Course in Journalism, the University of Nevada offers approved preparation for the journalistic vocations.

Upon completion of The Course in Journalism, a student receives the degree *Bachelor of Arts in Journalism*.

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.

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).

1. Twenty-seven credit hours in journalism, including journalism 101-102, interpreting the day's news (6 credits); journalism 221-222, news gathering and writing (6 credits); journalism 351-352, news editing (4 credits); journalism 353, the evolution of the newspaper as a social institution (3 credits); journalism 372, the law of the press (1 credit); journalism 379, the newspaper and society (2 credits); and journalism 481-482, newspaper partnership (2 credits).

2. Twelve credit hours in English literature.

3. Twenty-five credit hours in the social sciences (history, political science, economics, business, sociology, psychology, geography, 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.

In their sophomore, junior, and senior years students specializing in journalism are advised to include Journalism 231, 232, 361, 362, 491, 492, in their schedules whenever possible in order to build up a background of the news of each year.

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*—231\*-232\*, 354\*, 356\*-357\*, 361\*-362\*, 365-366, 367, 368, 375, 386, 393-394.

*English Literature*—131\*-132\*, 141\*, 145\*, 267\*, 337\*, 345-346, 347\*-348\*, 355-356, 441\*-442\*, 465\*-466\*, 471-472, 481, 482, 485-486.

*Social Science:*

Business—243-244, 247, 368\*, 371\*-372\*.

Economics—107\*, 110\*, 201\*, 202\*, 218, 351, 364\*.

Geography—101\*, 103\*, 109\*, 455\*.

History—101\*-102\*, 105\*-106\*, 393\*-394\*, 405\*, 408\*, 421\*-422\*, 441\*-442\*, 451\*-452\*.

Library Science—335.

Philosophy—101\*, 351, 352, 353\*-354\*, 461, 482.

Political Science—101\*-102\*, 105\*-106\*, 416\*, 427, 431\*-432\*.

Psychology—201\*, 231\*, 361\*, 362, 371\*, 375, 381\*, 441\*.

Sociology—102\*, 201\*, 350, 370\*, 371\*, 379\*, 380\*, 381, 383.

*The Aesthetics:*

Art—101-102, 105, 355\*.

English—221-222, 321-322, 421-422.

Music—203, 204, 303, 304.

Philosophy—455.

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*

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
Journalism 101 .....	2-3	Journalism 102 .....	2-3
English 101 .....	3	English 102 .....	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

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
Journalism 221 .....	3	Journalism 222 .....	3
Journalism 231 .....	1-2	Journalism 232 .....	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 .....	---
	<hr style="width: 50px; margin: 0 auto;"/> 16		<hr style="width: 50px; margin: 0 auto;"/> 16

Junior Year

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
Journalism .....	5-10	Journalism .....	5-10
English literature .....	2-3	English literature .....	2-3
Social sciences .....	5	Social sciences .....	5
Political Science 301.....	1	Political Science 302.....	1
Electives .....	---	Electives .....	---
	<hr style="width: 50px; margin: 0 auto;"/> 16		<hr style="width: 50px; margin: 0 auto;"/> 16

Senior Year

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
Journalism 481 .....	2	Journalism 482 .....	2
Journalism .....	5-10	Journalism .....	5-10
English literature .....	2-3	English literature .....	2-3
Social sciences .....	4	Social sciences .....	4
Electives .....	---	Electives .....	---
	<hr style="width: 50px; margin: 0 auto;"/> 16		<hr style="width: 50px; margin: 0 auto;"/> 16

Specific journalism courses required for the completion of The Course in Journalism or the major in journalism are designed to give each student a sound foundation in the principles and the skills basic to all fields in journalism.

In his electives in journalism, and in the various other offerings of the university, each student will wish to stress the subjects which will be most useful to him in the *special* field of journalism to which he is looking forward.

Students interested chiefly in the news and editorial phases of newspaper and press association work will wish to elect, in addition to the required journalism courses, Journalism 354—Advanced Reporting, Journalism 367—Editorial Writing, Journalism 368—The Special Feature Article, Journalism 375—Pictorial Journalism, and Journalism 365—Community Newspaper Management.

Students interested chiefly in community newspaper work will wish to elect, in addition to the required courses, Journalism 354—Advanced Reporting, Journalism 356-357—Advertising and Advertisement Copy Writing, Journalism 365-366—Community Newspaper Management, Journalism 367—Editorial Writing, Journalism 368—The Special Feature Article, and Journalism 375—Pictorial Journalism. Certain courses in business also may well be elected.

Students interested primarily in radio journalism will wish to elect, in addition to the required courses in journalism, Journalism 354—Advanced Reporting, Journalism 356-357—Advertising and Advertisement Copy Writing, Journalism 367—Editorial Writing, Journalism 368—The Special Feature Article, and Journalism 386—Journalism on the Air. Several courses in public speaking are advised.

Students preparing for a career in advertising, will wish, in addition to the required journalism courses, to elect Journalism 356-357—Advertising and Advertisement Copy Writing, Journalism 365-366—Community Newspaper Management, Journalism 367—Editorial Writing, Journalism 368—The Special Feature Article, and Journalism 386—Journalism on the Air. Important courses outside the Department of Journalism include Business 368—Marketing, Business 371—Merchandising, Business 372—The Economics of Advertising, Art 453—Commercial Art, Psychology 361—Social Psychology, and Psychology 381—The Psychology of Advertising.

Through a suitable combination of courses, in addition to those required in journalism, a student may organize his studies in preparation for the teaching of journalism in high school, for magazine article free lancing, for publicity and public relations work, or, for publications management.

Many students are not sure of the field of journalism into which they wish to go. They are advised to elect, in addition to required work in journalism, the basic courses in each field of journalism.

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, two radio stations, 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 Thomas C. Wilson Advertising Agency, the States Advertising Agency, the Nevada Engraving Company, Radio Station KOH, Radio Station KWRN, 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 Hicks, 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 PRE-DENTAL 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:

<i>Freshman Year</i>			
<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
English 101 .....	3	English 102 .....	3
Chemistry 101 .....	4	Chemistry 101-122 .....	5
Botany 103 .....	3	Zoology 103 .....	4
Military and Physical Edu- cation .....	1-1½	Mathematics 102 .....	2
Mathematics 110 .....	3	Military and Physical Education .....	1-1½
Electives .....	..	Electives .....	..
	<hr style="width: 50px; margin: 0 auto;"/> 15½		<hr style="width: 50px; margin: 0 auto;"/> 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.

<i>Sophomore Year</i>			
<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
German 101 .....	5	German 102 .....	5
Chemistry 231 .....	3	Chemistry 232 .....	3
Zoology 200 .....	5	Military and Physical Education .....	1½
Military and Physical Education .....	1½	Electives .....	..
Electives .....	..		
	<hr style="width: 50px; margin: 0 auto;"/> 15½		<hr style="width: 50px; margin: 0 auto;"/> 15½

<i>Junior Year</i>			
<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
German 109 .....	3	German 110 .....	3
General Physics .....	4	General Physics .....	4
Chemistry 341 .....	4	Chemistry 342 .....	4
Political Science 301 .....	1	Zoology 364 .....	4
Electives .....	4	Political Science 302 .....	1
	<hr style="width: 50px; margin: 0 auto;"/> 16		<hr style="width: 50px; margin: 0 auto;"/> 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 adviser, Professor Lowrance.

### 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

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
English 101 .....	3	English 102 .....	3
Chemistry 101 .....	4	Chemistry 102-122 .....	5
Botany 103 .....	3	Zoology 103 .....	4
Physical Education 101 .....	1	Mathematics .....	2
Elective .....	4½	Physical Education 102 .....	1
		Elective .....	½
	<hr/>		<hr/>
	15½		15½

#### Sophomore Year

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
Chemistry 231 .....	3	Chemistry 242 .....	3
Zoology 211 .....	4	Zoology 322* .....	2
Psychology 201 .....	3	Botany 370 .....	3
Physical Education 201 .....	½	Sociology 102 .....	3
Elective .....	5	Physical Education 202 .....	½
		Elective .....	4
	<hr/>		<hr/>
	15½		15½

#### Junior Year

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
Bacteriology 351 .....	4	Zoology 368* .....	2
Physics 151 .....	4	Physics 152 .....	4
Political Science 301 .....	1	Zoology 346 .....	5
Elective (300 or above) .....	7	Political Science 302 .....	1
		Elective (300 or above) .....	6
	<hr/>		<hr/>
	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, has received a certificate or diploma from the laboratory where the training was taken, and has passed the national registry examination of the American Society of Clinical Pathologists. 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

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
Botany 103 .....	3	Zoology 103 .....	4
English 101 .....	3	English 102 .....	3
Chemistry 101 .....	4	Chemistry 102-242 .....	5
History 101 .....	3	Physical Education 102.....	1
Physical Education 101.....	1	Elective .....	2½
Elective .....	1½		
	<hr/>		<hr/>
	15½		15½

### Sophomore Year

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
Zoology 211 .....	4	Foreign Language .....	5
Foreign Language .....	5	Sociology 102 .....	3
Sociology 201 .....	3	Physical Education 202.....	½
Psychology 201 .....	3	Elective .....	7
Physical Education 201.....	½		
	<hr/>		<hr/>
	15½		15½

### Junior Year

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
Bacteriology 351 .....	4	Zoology 346 .....	5
English or Foreign Language....	3	Home Economics .....	3
Elective (Courses 300 or above) .....	8	English or Foreign Language..	3
Political Science 301.....	1	Elective (Courses 300 or above) .....	6
	<hr/>	Political Science 302.....	1
	16		<hr/>
			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.

		<i>1st</i>	<i>2d</i>
		<i>Sem.</i>	<i>Sem.</i>
<i>Freshman Year</i>			
Chemistry 101, 102.....	General Inorganic Chemistry.....	4	2
English 101-102.....	Composition and Rhetoric.....	3	3
Botany 103.....	General Botany .....	3	..
Zoology 103.....	General Zoology .....	..	4
Mathematics 101 or 110.....	Algebra and Trigonometry .....	2	3
Military and Physical Education.....		1½	1½
Electives.....		2	2
		<hr/>	<hr/>
		15½	15½
<i>Sophomore Year</i>			
		<i>1st</i>	<i>2d</i>
		<i>Sem.</i>	<i>Sem.</i>
Foreign Language.....	First Year .....	5	5
Zoology 209.....	Comparative Anatomy .....	5	..
Zoology 333.....	Fish and Reptiles.....	..	3
Botany 222.....	Taxonomy .....	..	4
Chemistry 242.....	Introductory Organic .....	..	3
Military and Physical Education.....		1½	1½
Electives.....		4	..
		<hr/>	<hr/>
		15½	16½
<i>Junior Year</i>			
		<i>1st</i>	<i>2d</i>
		<i>Sem.</i>	<i>Sem.</i>
Zoology 259.....	General Entomology .....	3	..
Zoology 337.....	Mammals .....	..	3
Botany 317.....	Agrostology .....	..	3
Botany 491.....	Special problems in seed identification .....	3	..
Botany 492.....	Special problems in wildlife food plants .....	..	3
Geology 101.....	Physical geology .....	3	..
Political Science 301-302.....	Constitutions of the U. S. and Nevada .....	1	1
Electives .....		6	6
		<hr/>	<hr/>
		16	16

		<i>Senior Year</i>	<i>1st Sem.</i>	<i>2d Sem.</i>
Zoology 335.....	Birds .....		..	3
Zoology 463.....	Game management .....		3	..
Zoology 491.....	Special problems in bird farm management .....		3	..
Zoology 492.....	Special problems in fish culture.....		..	3
Zoology 350.....	Genetics .....		..	2
Botany 475-476.....	Ecology .....		4	4
Electives .....			6	4
			<hr/>	<hr/>
			16	16

Suggested electives are: Animal Husbandry 358; Botany 355; Economics 201, 202; English 111, 112, 131, 132; Psychology 201.

### 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*

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
Chemistry 101 .....	4	Chemistry 102, 242.....	5
English 101 .....	3	English 102 .....	3
Foreign Languages .....	5	Foreign Languages .....	5
Military and Physical Educ..... $\frac{1}{2}$ -1 $\frac{1}{2}$		Military and Physical Educ..... $\frac{1}{2}$ -1 $\frac{1}{2}$	
Electives .....	..	Electives .....	..
		<hr/>	<hr/>
		15 $\frac{1}{2}$	15 $\frac{1}{2}$

#### *Sophomore Year*

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
Foreign Languages .....	3	Foreign Languages .....	3
Economics 201 .....	3	Economics 202 .....	3
Psychology 201 .....	3	Psychology 241 .....	3
Sociology 201 .....	3	Psychology 205 .....	2
Military and Physical Educ..... $\frac{1}{2}$ -1 $\frac{1}{2}$		Sociology 102 .....	3
Electives .....	..	Military and Physical Ed..... $\frac{1}{2}$ -1 $\frac{1}{2}$	
		Electives .....	..
		<hr/>	<hr/>
		15 $\frac{1}{2}$	15 $\frac{1}{2}$



## Junior Year

First Semester	Units	Second Semester	Units
Psychology 361 .....	3	Psychology 231 .....	2
Political Science 101.....	3	Political Science 102.....	3
Sociology 379 .....	2	Sociology 350 .....	2
Sociology 381 (or 383).....	2*	Sociology 384 (or 386).....	2*
Electives .....	6	Mathematics or Science.....	3
		Electives .....	4
	16		16

## Senior Year

First Semester	Units	Second Semester	Units
Psychology 441 .....	3	Psychology 401 .....	3
Political Science 431.....	2	Political Science 432.....	2
Political Science 301.....	1	Political Science 302.....	1
Sociology 383 (or 381).....	2*	Political Science 418.....	2
Sociology 371 .....	3	Sociology 386 (or 384).....	2*
Electives .....	5	Sociology 490 .....	3
		Electives .....	3
	16		16

The following electives are recommended: Econ. 364, History 101-102, English 111-112, Philosophy 107-108, 222, Math. 220, Home Ec. 250, Psychology 371-411.

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.

## COURSE OF STUDY LEADING TO THE DEGREE—BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

## Freshman Year

First Semester	Units	Second Semester	Units
Economics 107 .....	2	English 102 .....	3
English 101 .....	3	Foreign Language .....	5
Foreign Language .....	5	Mathematics or Science.....	3-5
Mathematics or Science.....	4-5	Military and Physical Educ.....	1-1½
Military and Physical Educ...½-1½		Electives .....	..
	15½		15½

\*Sociology 381 and 384 offered in odd numbered years. Sociology 383 and 386 offered in even numbered years.

## Sophomore Year

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
Economics 201 .....	3	Economics 202 .....	3
Business Administration 241....	3	Business Administration 244....	3
Business Administration 243....	3	Foreign Language .....	3
Foreign Language .....	3	Mathematics or Science.....	5-6
Mathematics or Science.....	2-3	Military and Physical Educ.....	1-1½
Military and Physical Educ...½-1½			
	15½		15½

## Junior Year

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
Business Administration 355....	3	Business Administration 356....	3
Economics 361 .....	3	Business Administration 368....	3
Mathematics or Science.....	3	Political Science 302.....	1
Political Science 301.....	1	Electives .....	9
Electives .....	6		
	16		16

## Senior Year

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
Economics 373 .....	3	Business Administration 374....	3
Business Administration 365....	3	Electives .....	13
Business Administration 247....	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 351 and Business Administration 353 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.

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## SCHOOL OF EDUCATION

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### 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 or for the major in commercial education, these 18 hours consist of the following courses: Psychology 221, and Education 190, preferably in the sophomore year; Education 310, and two approved hours of methods in high school subjects (courses listed under secondary education and numbered 330-349) preferably in the junior year; Education 471, four hours of 420, and 482, all in the senior year. One semester of practice teaching in the elementary school may be substituted for two hours of Education 420.

*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 221, Education 190, 310, six hours of 420, 448, 449, and 482.

For the agriculture certificate the students are required to take the following courses: Psychology 221, Education 190, 310, six hours of 420, 445, 446, 447, and 482.

*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: Psychology 221, Education 190, 310, 339, 340, four hours of 420, and 471.

## 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 221 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 111, 134, 186, 190, 120, and 121.

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 111 .....	2	Education 134 .....	3
English 101 .....	3	English 102 .....	3
Physical Education (Women)..	1	Physical Education (Women)..	1
Physical Education (Men).....	$\frac{1}{2}$	Physical Education (Men).....	$\frac{1}{2}$
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 190 .....	2	Education 186 .....	2
Physical Education .....	$\frac{1}{2}$	Physical Education .....	$\frac{1}{2}$
Military (Men) .....	1	Military (Men) .....	1
Political Science 301.....	1	Political Science 302.....	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 190 and political science 301-302.

## 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 Education 117, 134, 141, 190, and ten hours of 120, five hours of which will be in kindergarten teaching and five in a primary grade; the remaining ten hours may be selected from other courses listed under Kindergarten-Primary Education.

Music: 101-102 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: 161, 162, 261, and 262.

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 Certificate:

Blythe Bulmer, B.A., English.

Gladys Cafferata, B.A., English.

Kathleen Griffin, B.A., Commercial.

Hattie Mae Kilpatrick, B.A., Commercial.

Mildred Klaus, B.A., Commercial.

Nevada Pedrolli, B.A., Spanish.

L. C. Schank, B.S., Agriculture.

Beulah Singleton, B.A., History.

Anna Maud Stern, B.A., Commercial.

Velva Truelove, B.A., Commercial.

## For Elementary Certificate:

Harriet Abelman, B.A., Kindergarten.  
 Joseph Bashista, B.S., seventh grade.  
 Winnie Black, B.S., second grade.  
 Helen Bledowski, B.S., eighth grade.  
 Cherril Brown, B.A., eighth grade.  
 E'Lois Campbell, B.A., eighth grade.  
 Browning Churn, eighth grade.  
 Kathryn Clark, fourth grade.  
 Howard Cunningham, B.A., seventh grade.  
 Cecelia Daley, third grade.  
 Frances Dunn, B.A., seventh grade.  
 Helen M. Dunn, B.A., seventh grade.  
 Juanito Elcano, B.A., fifth grade.  
 Marie Frazier, B.A., second grade.  
 Inez Gillies, fifth grade.  
 Helen Hanley, fourth grade.  
 Mamie Hildebrand, sixth grade.  
 Virginia Kimerling, B.E., first grade.  
 Maris Maule, B.A., seventh grade.  
 Evelyn McClurkin, fifth grade.  
 Isabelle Moe, fifth grade.  
 Robert Paille, B.A., sixth grade.  
 Margaret Patrick, B.S., fifth grade.  
 Edith Peddicord, fifth grade.  
 Yvonne Rosasco, B.A., seventh grade.  
 Alyce Savage, B.A., fifth grade.  
 Doris Shaver, B.A., sixth grade.  
 Madeline Shoemaker, sixth grade.  
 Emma Smith, fourth grade.  
 Lucille E. Smith, first grade.  
 Olivia Treanor, fifth grade.  
 Betty Vaughn, B.A., first grade.  
 Baol J. Ward, M.A., eighth grade.  
 Vera Warren, B.S., eighth grade.  
 Dorothy Watson, third grade.  
 Emilie Yparraguire, fourth 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.

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# The College of Engineering

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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 144 semester units in each case.

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

##### Freshman Year—First Semester

	LAB.	LEC.
English 101.....Composition and Rhetoric.....	..	3
Chemistry 101.....General Inorganic Chemistry.....	2	2
Mathematics 151.....Mathematical Analysis.....	..	5
Mechanical Eng. 105.....Engineering Drawing and Descriptive Geometry.....	2	..
*Art 101.....Freehand Drawing.....	1	..
Mining 101.....Introductory Mining.....	..	1
Military 101.....Basic Course.....	1	..
Physical Education 101.....Developmental Exercises.....	½	..
		<b>17½</b>

##### Freshman Year—Second Semester

English 102.....Composition and Rhetoric.....	..	3
Chemistry 102.....Metals.....	..	2
Chemistry 124.....Qualitative.....	1	1
Mathematics 152.....Mathematical Analysis.....	..	5
M. E. 106.....Engineering Drawing and Descriptive Geometry.....	2	..
Geology 110.....Engineering Geology.....	..	3
Military 102.....Basic Course.....	1	..
Physical Education 102.....Developmental Exercises.....	½	..
		<b>18½</b>

##### Summer Work

Mining A.....	Practical Mine Work.....	Four Weeks
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\*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.

		LAB.	LEC.
<i>Sophomore Year—First Semester</i>			
Mathematics 241.....	Differential Calculus .....	..	3
Physics 203.....	Engineering Physics .....	..	4
Geology 211.....	Determinative Mineralogy .....	2	..
Chemistry 231.....	Quantitative Chemistry .....	2	1
Geology 102.....	Historical Geology .....	..	3
Military 201.....	Basic Course .....	..	1
Physical Education 201.....	Advanced Exercises .....	½	..

16½

		LAB.	LEC.
<i>Sophomore Year—Second Semester</i>			
Mathematics 242.....	Integral Calculus .....	..	3
Physics 204.....	General Physics for Engineers.....	..	4
Metallurgy 204.....	Engineering Metallurgy .....	..	2
Geology 212.....	Blowpipe Analysis .....	2	..
Geology 214.....	Descriptive Mineralogy .....	..	2
Military 202.....	Basic Course .....	..	1
Physical Education 202.....	Advanced Exercises .....	½	..
Chemistry 232.....	Quantitative Analytical Chemistry..	2	1

17½

		LAB.	LEC.
<i>Junior Year—First Semester</i>			
Mining 351.....	Excavation .....	..	3
Metallurgy 341.....	Assaying .....	3	1
Mathematics 341.....	Analytic Mechanics .....	..	3
Civil Engineering 241.....	Plane Surveying .....	1	2
Geology 351.....	Petrology .....	1	1
Elective .....	.....	..	3

18

		LAB.	LEC.
<i>Junior Year—Second Semester</i>			
Mining 352.....	Mine Plant .....	..	3
Metallurgy 366.....	Ore Dressing .....	..	2
Metallurgy 368.....	Ore Dressing .....	2	..
Geology 360.....	Economics Geology Nonmetallic.....	..	3
Civil Engineering 242.....	Plane Surveying .....	2	3
Geology 352 (or Metallurgy 356).....	Petrography (Metallography) .....	2	1

18

		LAB.	LEC.
<i>Senior Year—First Semester</i>			
Geology 461.....	Economic Geology of Metals.....	..	3
Mining 461.....	Mining Methods .....	..	3
Metallurgy 471.....	Hydro-Metallurgy .....	1	2
Metallurgy 461.....	Pyro-Metallurgy, nonferrous metals .....	..	3
Political Science 301.....	Constitution of U. S.....	..	1
Mining 479, Metallurgy 479, or Geology 479.....	.....	2	..
Civil Engineering 361.....	Hydraulics .....	..	3

18

Senior Year—Second Semester

	LAB.	LEC.
Mining 472..... Mine Administration ..		3
Mining 474..... Mineral Industry Economics ..		3
Electrical Engineering 375...Electricity in Mining.....		3
Political Science 302.....Constitution of Nevada.....		1
Mining 480, Metallurgy 480, or Geology 479.....	2	..
Civil Engineering 372.....Strength of Materials.....		3
Civil Engineering 374.....Metals Testing Laboratory.....	1	..
Elective .....		4

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MACKAY SCHOOL OF MINES  
METALLURGY COURSE

Freshman Year—First Semester

	LAB.	LEC.
English 101.....Composition and Rhetoric.....		3
Chemistry 101.....Metals .....		2
Mathematics 151.....Mathematical Analysis .....		5
M. E. 105.....Engineering Drawing and Descriptive Geometry .....	2	..
Mining 101.....Introduction to Mining.....		1
*Art 101.....Freehand Drawing .....	1	..
Military 101.....Basic Course .....	1	..
Physical Education 101.....Developmental Exercises .....	½	..

17½

Freshman Year—Second Semester

English 102.....Composition and Rhetoric.....		3
Chemistry 102.....Metals .....		2
Chemistry 124.....Qualitative .....	1	1
Mathematics 152.....Mathematical Analysis .....		5
M. E. 106.....Engineering Drawing and Descriptive Geometry .....	2	..
Geology 110.....Engineering Geology .....		3
Military 102.....Basic Course .....	1	..
Physical Education 102.....Developmental Exercises .....	½	..

18½

Summer Work

Mining A.....	Practical Metallurgical Work.....	Four Weeks
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Sophomore Year—First Semester

	LAB.	LEC.
Mathematics 241.....Differential Calculus .....		3
Physics 203.....Engineering Physics .....		4
Physics 205.....Physical Measurements .....	2	..
Geology 211.....Determinative Mineralogy .....	2	..
Chemistry 231.....Quantitative Chemistry .....	2	1
Military 201.....Basic Course .....		1
Physical Education 201.....Advanced Exercises .....	½	..
Elective .....		2

17½

<i>Sophomore Year—Second Semester</i>		LAB.	LEC.
Mathematics 242.....	Integral Calculus .....	..	3
Physics 204.....	General Physics for Engineers.....	..	4
Physics 206.....	Physical Measurements .....	1	..
Metallurgy 204.....	Engineering Metallurgy .....	..	2
Geology 212.....	Blowpipe Analysis .....	2	..
Geology 214.....	Descriptive Mineralogy .....	..	2
Chemistry 232.....	Quantitative Chemistry .....	2	1
Military 202.....	Basic Course .....	..	1
Physical Education 202.....	Advanced Exercises .....	½	..

18½

<i>Junior Year—First Semester</i>			
Metallurgy 358.....	Ferrous Metallurgy .....	..	2
Metallurgy 341.....	Fire Assaying .....	3	1
Mathematics 341.....	Analytic Mechanics .....	..	3
Civil Engineering 241.....	Plane Surveying .....	1	2
Political Science 301.....	Constitution of U. S.....	..	1
Elective .....	.....	..	3

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<i>Junior Year—Second Semester</i>			
Metallurgy 356.....	Metallography .....	2	1
Metallurgy 366.....	Ore Dressing .....	..	2
Metallurgy 368.....	Ore Dressing .....	2	..
Geology 360.....	Economics Geology Nonmetallic.....	..	3
Civil Engineering 242.....	Plane Surveying .....	2	3
Political Science 302.....	Constitution of Nevada.....	..	1
Elective.....	.....	..	2

18

<i>Senior Year—First Semester</i>			
Chemistry 451.....	Physical Chemistry .....	1	3
Metallurgy 471.....	Hydro-Metallurgy .....	1	2
Metallurgy 461.....	Pyro-Metallurgy .....	..	3
Civil Engineering 361.....	Hydraulics .....	..	3
Project in Metallurgy.....	.....	2	..
Elective.....	.....	..	3

18

<i>Senior Year—Second Semester</i>			
Chemistry 452.....	Physical Chemistry .....	1	3
Mining 474.....	Mineral Industry Economics.....	..	3
Electrical Engineering 375.....	Electricity in Mining.....	..	3
Civil Engineering 372.....	Strength of Materials.....	..	3
Civil Engineering 374.....	Metals Testing Laboratory.....	1	..
Metallurgy 472.....	Electro-Metallurgy .....	..	2
Metallurgy 476.....	Problems and Seminar.....	..	2
Project in Metallurgy.....	.....	2	..

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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)

Junior Year—First Semester

	LAB.	LEC.
Civil Engineering 241.....Plane Surveying .....	1	2
*Foreign Languages.....First Year .....	..	5
Geology 351.....Petrology .....	1	1
Geology 370.....Field Geology .....	1	..
Geology 382.....Structural Geology .....	..	3
Mining 461.....Mining Methods .....	..	3

17

Junior Year—Second Semester

Civil Engineering 242.....Plane Surveying .....	2	3
Geology 352.....Petrography .....	2	1
Geology 354.....Geologic Reports .....	..	2
Geology 360.....Economic Geology of Nonmetals.....	..	3
*Foreign Languages.....First Year .....	..	5

18

Summer Course

Geology 410.....Summer Field Geology.....	..	6
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Senior Year—First Semester

Political Science 301.....Constitution of U. S.....	..	1
*Foreign Languages.....Second Year .....	..	3
*English 111.....Public Speaking .....	..	2
Geology 353.....Stratigraphic Paleontology .....	1	2
Geology 461.....Economic Geology of Metals.....	..	3
Geology 479.....Geology Project .....	2	..
Geology 480.....Geophysical Methods .....	1	2

17

Senior Year—Second Semester

Political Science 302.....Constitution of Nevada.....	..	1
*Foreign Languages.....Second Year .....	..	3
*Geology 440.....Geomorphology .....	..	3
Geology 479.....Geology Project .....	2	..
*Geology 430.....Petroleum Geology .....	..	3
Geology 485.....Seminar .....	1	1
Elective.....	..	2

16

\*May be substituted for by permission.

## SCHOOL OF MECHANICAL ENGINEERING

*Freshman Year—First Semester*

		LAB.	LEC.
English 101.....	Composition and Rhetoric.....	..	3
Chemistry 101.....	General Inorganic Chemistry.....	2	2
Mathematics 151.....	Mathematical Analysis .....	..	5
M. E. 105.....	Engineering Drawing and Descriptive Geometry .....	2	..
*Political Science 101 <sup>1</sup> .....	American Government .....	..	3
or	or		
*History 105.....	U. S. History.....	..	3
Military 101.....	Basic Course .....	1	..
Physical Education 101.....	Developmental Exercises .....	$\frac{1}{2}$	..

18 $\frac{1}{2}$ *Freshman Year—Second Semester*

English 102.....	Composition and Rhetoric.....	..	3
Chemistry 102.....	Metals .....	..	2
Chemistry 124.....	Qualitative .....	1	1
Mathematics 152.....	Mathematical Analysis .....	..	5
M. E. 106.....	Engineering Drawing and Descriptive Geometry .....	2	..
*Political Science 102 <sup>1</sup> .....	American Government .....	..	3
or	or		
*History 106.....	U. S. History.....	..	3
Military 102.....	Basic Course .....	1	..
Physical Education 102.....	Developmental Exercises .....	$\frac{1}{2}$	..

18 $\frac{1}{2}$ *Sophomore Year—First Semester*

Physics 203.....	General Physics for Engineers.....	..	4
Physics 205.....	Physical Measurements .....	2	..
Mathematics 251.....	Engineering Calculus .....	..	4
Civil Engineering 241.....	Elementary Surveying .....	1	2
English 111.....	Public Speaking .....	..	2
*Political Science 105.....	Comparative Government .....	..	2
or	or		
*History 101.....	European Civilization .....	..	3
Military 201.....	Basic Course .....	1	..
Physical Education 201.....	Advanced Exercises .....	$\frac{1}{2}$	..

18 $\frac{1}{2}$  or 19 $\frac{1}{2}$ 

<sup>1</sup>Completion of Political Science 101 and 102 will satisfy the Political Science 301 and 302 requirement for graduation.

\*Courses marked with an asterisk may be substituted for only when approved in writing by the advisor.

NOTE—Either Political Science 105 and 106 or History 105 and 106 must be completed.



Sophomore Year—Second Semester

		LAB.	LEC.
Physics 204.....	General Physics for Engineers.....	..	4
Physics 206.....	Physical Measurements .....	2	..
Mathematics 252.....	Engineering Calculus .....	..	4
Metallurgy 206.....	Engineering Materials and Processes .....	..	2
Mechanic Arts 226.....	Engineering Materials and Processes Laboratory .....	1	..
*Political Science 106.....	Comparative Government .....	..	2
or	or		
*History 102.....	European Civilization .....	..	3
Military 202.....	Basic Course .....	1	..
Physical Education 202.....	Advanced Exercises .....	½	..

16½ or 17½

Junior Year—First Semester

Mathematics 341.....	Analytic Mechanics .....	..	3
Electrical Engineering 351.....	Direct Current Machinery.....	..	3
Electrical Engineering 353.....	Direct Current Machinery Laboratory .....	2	..
M. E. 351.....	Kinematics .....	2	1
M. E. 355.....	Thermodynamics .....	..	3
Mathematics 351.....	Differential Equations .....	..	2
Literature.....	To Be Chosen.....	..	2

18

Junior Year—Second Semester

Mathematics 242.....	Analytic Mechanics .....	..	2
Civil Engineering 376.....	Mechanics of Materials.....	1	3
Electrical Engineering 352.....	Alternating Current Machinery.....	..	3
Electrical Engineering 354.....	Alternating Current Machinery Laboratory .....	2	..
M. E. 356.....	Applied Thermodynamics .....	..	3
M. E. 364.....	Mechanical Engineering Laboratory .....	2	..
Literature.....	To Be Chosen.....	..	2

18

Senior Year—First Semester

M. E. 465.....	Mechanical Engineering Laboratory .....	2	..
M. E. 457.....	Machine Design .....	1	2
M. E. 471.....	Heat-Power Engineering .....	..	3
Civil Engineering 367.....	Elementary Fluid Mechanics.....	2	3
Political Science 301.....	Constitution of U. S.....	..	1
Business Adm. 241.....	Fundamentals of Business Organization .....	..	3
Economics 203.....	Economics for Engineers.....	..	3

19 or 20

\*Courses marked with an asterisk may be substituted for only when approved in writing by the advisor.

<i>Senior Year—Second Semester</i>		LAB.	LEC.
M. E. 458.....	Machine Design Problem.....	2	1
M. E. 472.....	Heat-Power Engineering .....	..	3
M. E. 477.....	Internal Combustion Engines.....	..	3
Political Science 302.....	Constitution of Nevada.....	..	1
4 to 9 additional credit hours to be chosen with approval of advisor to total 144.....		7 or 8	
		<hr/> 14 to 17	

## SCHOOL OF ELECTRICAL ENGINEERING

<i>Freshman Year—First Semester</i>		LAB.	LEC.
English 101 .....	Composition and Rhetoric.....	..	3
Chemistry 101.....	General Inorganic Chemistry.....	2	2
Mathematics 151 .....	Mathematical Analysis .....	..	5
M. E. 105.....	Engineering Drawing and Descriptive Geometry.....	2	..
Military 101.....	Basic Course .....	1	..
Physical Education 101.....	Developmental Exercises .....	$\frac{1}{2}$	..
*Elective .....	.....	..	2
		<hr/> 17 $\frac{1}{2}$	

<i>Freshman Year—Second Semester</i>			
English 102.....	Composition and Rhetoric.....	..	3
Chemistry 102.....	Metals .....	..	2
Chemistry 124.....	Qualitative .....	1	1
Mathematics 152.....	Mathematical Analysis .....	..	5
M. E. 106.....	Engineering Drawing and Descriptive Geometry .....	2	..
Military 102.....	Basic Course .....	1	..
Physical Education 102.....	Developmental Exercises .....	$\frac{1}{2}$	..
*Elective.....	Humanities .....	..	3
		<hr/> 18 $\frac{1}{2}$	

<i>Sophomore Year—First Semester</i>			
Physics 203.....	General Physics for Engineers.....	..	4
Physics 205.....	Physical Measurements .....	2	..
Mathematics 251.....	Calculus for Engineers.....	..	4
Civil Engineering 241.....	Surveying .....	1	2
English 111.....	Public Speaking .....	..	2
Military 201.....	Basic Course, second year.....	..	1
Physical Education 201.....	Advanced Exercises .....	$\frac{1}{2}$	..
*Elective.....	Humanities .....	..	2
		<hr/> 18 $\frac{1}{2}$	

<i>Sophomore Year—Second Semester</i>			
Physics 204.....	General Physics for Engineers.....	..	4
Physics 206.....	Physical Measurements .....	2	..
Mathematics 252.....	Calculus for Engineers.....	..	4
Metallurgy 206.....	Engineering Materials and Processes .....	..	2
Mechanic Arts 226.....	Engineering Materials and Processes Laboratory .....	1	..
Military 201.....	Basic Course, second year.....	..	1
Physical Education 202.....	Advanced Exercises .....	$\frac{1}{2}$	..
*Elective.....	Humanities .....	..	3
		<hr/> 17 $\frac{1}{2}$	

\*Electives selected under supervision of advisor.

COLLEGE OF ENGINEERING

Junior Year—First Semester

	LAB.	LEC.
Electrical Engineering 351..Direct Current Machinery.....	..	3
Electrical Engineering 353..Direct Current Machinery Lab.....	2	..
Electrical Engineering 355..Introduction to Electric Circuits....	..	2
Mathematics 341.....Mechanics .....	..	3
Business Adm. 241.....Business Organization .....	..	3
Mathematics 351.....Differential Equations .....	..	2
*Electives.....	..	3

18

Junior Year—Second Semester

Electrical Engineering 352..Alternating Current Machinery.....	..	3
Electrical Engineering 354..Alternating Current Machinery Laboratory .....	2	..
Electrical Engineering 356..Alternating Current Circuits .....	..	2
Electrical Engineering 368..Introduction to Electronics.....	1	2
Civil Engineering 372.....Strength of Materials.....	..	3
Mathematics 342.....Mechanics .....	..	2
*Electives.....	..	3

18

Senior Year—First Semester

Electrical Engineering 469..Industrial Electronics .....	1	1
Electrical Engineering 461..Advanced Alternating Current Machinery .....	..	3
Mechanical Eng. 457.....Machine Design .....	1	2
Political Science 301.....Constitution of United States.....	..	1
*Electives.....	..	3

Electronics Option

Electrical Engineering 481..Advanced Electronics .....	2	4
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18

Power Option

Electrical Engineering 463..Advanced Alternating Current Laboratory .....	3	..
Mechanical Eng. 353.....Fundamentals of Thermodynamics..	..	3

18

Senior Year—Second Semester

Electrical Engineering 462..Electrical Design .....	1	2
Electrical Engineering 488..Seminar .....	..	1
Political Science 302.....Constitution of Nevada.....	..	1
Civil Engineering 361.....Hydraulics .....	..	3
*Electives.....	..	2

Electronics Option

Electrical Engineering 482..Radio Communication and Microwaves .....	2	4
Physics 472.....Modern Physics .....	..	2

18

\*Electives selected under supervision of advisor.

		LAB.	LEC.
<i>Power Option</i>			
Electrical Engineering 464..Advanced Alternating Current Laboratory .....	3		
Electrical Engineering 466..Generation and Distribution of Power .....			3
Mechanical Eng. 364.....Mechanical Laboratory .....			2

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## SCHOOL OF CIVIL ENGINEERING

*Freshman Year—First Semester*

English 101.....Composition and Rhetoric.....			3
Chemistry 101.....General Inorganic Chemistry.....	2		2
Mathematics 151.....Mathematical Analysis .....			5
Mechanical Eng. 105.....Engineering Drawing and Descriptive Geometry .....	2		2
Economics 107.....Economic Geography .....			
Military 101.....Basic Course .....	1		
Physical Education 101.....Developmental Exercises .....	$\frac{1}{2}$		

17 $\frac{1}{2}$ *Freshman Year—Second Semester*

English 102.....Composition and Rhetoric.....			3
Chemistry 102.....Metals .....			2
Chemistry 124.....Qualitative .....	1		1
Mathematics 152.....Mathematical Analysis .....			5
Mechanical Eng. 106.....Engineering Drawing and Descriptive Geometry .....	2		
Geology 110.....Engineering Geology .....			3
Military 102.....Basic Course .....	1		
Physical Education 102.....Developmental Exercises .....	$\frac{1}{2}$		

18 $\frac{1}{2}$ *Sophomore Year—First Semester*

Mathematics 251.....Calculus .....			4
Physics 203 and 205.....General Physics for Engineers.....	2		4
English 111.....Public Speaking .....			2
Civil Engineering 241.....Plane Surveying .....	1		2
Civil Engineering 245.....Engineering Problems .....	1		1
Military 201.....Basic Course .....	1		
Physical Education 201.....Advanced Exercises .....	$\frac{1}{2}$		

18 $\frac{1}{2}$ *Sophomore Year—Second Semester*

Mathematics 252.....Calculus .....			4
Physics 204 and 206.....General Physics for Engineers.....	2		4
Civil Engineering 242.....Plane Surveying .....	2		3
Civil Engineering 246.....Construction Materials .....			2
Military 202.....Basic Course .....	1		
Physical Education 202.....Advanced Exercises .....	$\frac{1}{2}$		

18 $\frac{1}{2}$

*Junior Year—First Semester*

		LAB.	LEC.
Mathematics 341.....	Analytic Mechanics .....	..	3
Civil Engineering 363.....	Route Surveying .....	2	2
Civil Engineering 367.....	Elementary Fluid Mechanics.....	2	3
Civil Engineering 369.....	Nonmetallic Testing Laboratory.....	1	..
Political Science 301.....	Constitution of U. S.....	..	1
Economics 203.....	Engineering Economics .....	..	3

17

*Junior Year—Second Semester*

Mathematics 342.....	Analytic Mechanics .....	..	2
Civil Engineering 364.....	Hydrology .....	..	3
Civil Engineering 366.....	Roads and Pavements .....	..	3
Civil Engineering 376.....	Mechanics of Materials.....	1	3
Civil Engineering 374.....	Metals Testing Laboratory.....	1	..
Civil Engineering 378.....	Framed Structures .....	2	2
Political Science 302.....	Constitution of Nevada.....	..	1

18

*Senior Year—First Semester*

Civil Engineering 481.....	Framed Structures .....	2	2
Civil Engineering 485.....	Mechanics of Reinforced Concrete .....	1	3
Civil Engineering 487.....	Highway Engineering .....	..	3
Civil Engineering 489.....	Sanitary Engineering .....	..	3
Civil Engineering 491.....	Contracts and Specifications.....	..	2
Elective.....	.....	..	2

18

*Senior Year—Second Semester*

Civil Engineering 484.....	Structural Design .....	3	1
Civil Engineering 486.....	Reinforced Concrete Design.....	2	1
Civil Engineering 488.....	Engineering Economy .....	..	2
Civil Engineering 490.....	Sanitary Engineering .....	..	3
Civil Engineering 492.....	Foundations .....	..	2
Civil Engineering 494.....	Irrigation Engineering .....	..	3
Elective.....	.....	..	1

18

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# The College of Agriculture

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1. THE SCHOOL OF AGRICULTURE.
2. THE SCHOOL OF HOME ECONOMICS.

## AIM

The aim of the College of Agriculture is to give such training in scientific and vocational agriculture and home economics as will furnish a well-rounded education and fit students for professional positions.

## EQUIPMENT

**AGRICULTURE BUILDING AND UNIVERSITY FARMS**—For descriptions see Buildings, Index.

**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, dairy manufacturing, and the marketing of milk.

**FARM MECHANICS SHOP**—The shop for Farm Mechanics work is located in a Quonset hut on the north end of the campus. It is well equipped, with forges and other equipment for blacksmithing, tools and equipment for sheetmetal work, soldering, plumbing, cold metal work, building construction, farm machinery repair and gas engine and tractor work.

**GREENHOUSE**—A greenhouse is available to students for laboratory work in courses in botany, horticulture, agronomy, and soils. A large room is devoted to experimental work in plant physiology, plant diseases, and plant propagation, 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, animal production, plant production, and agricultural education 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.

### CURRICULA IN AGRICULTURE

		<i>1st</i>	<i>2d</i>
		<i>Sem.</i>	<i>Sem.</i>
<i>Uniform Freshman Year</i>			
Military 101-102.....	Basic Course, First Year.....	1	1
Physical Ed. 101-102.....	Developmental Exercises.....	$\frac{1}{2}$	$\frac{1}{2}$
English 101-102.....	Composition and Rhetoric.....	3	3
Chemistry 101-102.....	General Inorganic Chemistry.....	4	2
Mathematics 101 or Chemistry 124.....	.....	3	2
Zoology 101.....	Survey of Zoology.....	3	..
Botany 103.....	General Botany.....	..	3
Animal Husbandry 101.....	Breeds of Livestock.....	3	..
Dairy Husbandry 102.....	Elements of Dairy Husbandry.....	..	3
Horticulture 102.....	Elements of Horticulture.....	..	2
Orientation 103.....	Survey of Agriculture.....	1	..
		15 $\frac{1}{2}$	16 $\frac{1}{2}$

## GENERAL AGRICULTURE MAJOR

		<i>1st</i> <i>Sem.</i>	<i>2d</i> <i>Sem.</i>
<i>Sophomore Year</i>			
Military 201-202.....	Second Year Elementary Military.....	1	1
Physical Educ. 201-202.....	Advanced Exercises .....	$\frac{1}{2}$	$\frac{1}{2}$
Agr. Economics 101-102.....	Principles of Economics.....	3	3
Animal Husbandry 203.....	Livestock Judging .....	3	..
Agronomy 201.....	Field Crops .....	3	..
Agronomy 202.....	Forage Crops .....	..	3
Farm Mechanics 211.....	Forging .....	2	..
Farm Mechanics 220.....	Farm Utilities .....	..	2
Agronomy 216.....	Soils .....	..	3
English 111.....	Public Speaking .....	2	..
Chemistry 242.....	Introductory Organic .....	..	3
Elective.....	Recommend Economic Geography.....	2	..
		<hr/> 16 $\frac{1}{2}$	<hr/> 15 $\frac{1}{2}$
<i>Junior Year</i>			
Animal Husbandry 330.....	Feeds and Feeding.....	..	3
Soils 317.....	Soil Fertility .....	3	..
Horticulture 356.....	Vegetable Production .....	..	3
Agricultural Electives.....		9	7
Electives.....		3	4
		<hr/> 17	<hr/> 17
<i>Senior Year</i>			
Political Science 301-302.....	Constitution of U. S. and Nevada.....	1	1
Agricultural Electives.....		9	9
Electives.....		7	7
(Recommended, Journalism 370)		<hr/> 17	<hr/> 17

## AGRICULTURAL ECONOMICS MAJOR

*Uniform Freshman Year*

(See Page 37)

		<i>1st</i> <i>Sem.</i>	<i>2d</i> <i>Sem.</i>
<i>Sophomore Year</i>			
Military 201-202.....	Basic Course .....	1	1
Physical Educ. 201-202.....	Advanced Exercises .....	$\frac{1}{2}$	$\frac{1}{2}$
Agr. Economics 201-202.....	Principles of Economics with Application to Agriculture.....	3	3
Agronomy 201-202.....	Field Crops and Forage Crops.....	3	3
Agronomy 216.....	Soils .....	..	3
Animal Husbandry 203.....	Livestock Judging.....	3	..
English 111-112.....	Public Speaking .....	2	2
Electives .....		4	4
		<hr/> 16 $\frac{1}{2}$	<hr/> 16 $\frac{1}{2}$



Junior Year

		1st Sem.	2d Sem.
Agr. Economics 357.....	Marketing Agricultural Products.....	3	..
Agr. Economics 355.....	Farm Finance .....	2	..
Agr. Economics 352.....	Agricultural Economic Policy .....	..	3
Agr. Economics 356.....	Land Economics .....	..	2
Sociology 350.....	Rural Sociology .....	..	2
Economics 361.....	Statistical Methods .....	3	..
Agr. Economics 245.....	Farm Accounting .....	3	..
Animal Husbandry 330.....	Feeds and Feeding .....	..	3
Electives .....	.....	6	7
		<hr/>	<hr/>
		17	17

Senior Year

Political Science 301-302.....	Constitution of U. S. and Nevada.....	1	1
Agr. Economics 465.....	Agricultural Prices .....	3	..
Agr. Economics 476.....	Farm Management .....	..	3
Agr. Economics 464.....	Cooperative Organizations .....	..	2
Economics 353.....	Money and Banking.....	3	..
Agronomy 353.....	Irrigation and Drainage.....	2	..
Farm Mechanics 354.....	Irrigation Structures and Agricultural Surveying .....	..	2
Electives .....	.....	8	8
		<hr/>	<hr/>
		17	16

Recommended electives for Agricultural Economics Major—

- Farm Mechanics 211 and 220.
- Animal Husbandry 358 or 466.
- Agronomy 316, 359, and 360.
- Mathematics 101-102-110.
- Economics 107, 110, 358, 362, 364, 373.
- Business 241, 247, 371.
- Geology 101 or 110.
- Psychology 201, 205.
- Journalism 370.

AGRICULTURAL EDUCATION

Freshman

		1st Sem.	2d Sem.
Military 101-102.....	Basic .....	1	1
Physical Ed. 101-102.....	Development Exercises .....	$\frac{1}{2}$	$\frac{1}{2}$
English 101-102.....	Composition and Rhetoric .....	3	3
Chemistry 101-102.....	General Inorganic .....	4	2
Zoology 101.....	Survey of Zoology.....	3	..
Botany 103.....	General Botany .....	..	3
Animal Husbandry 101.....	Breeds of Livestock.....	3	..
Dairy Husbandry 102.....	Elements of Dairy Husbandry.....	..	3
Horticulture 102.....	Elements of Horticulture.....	..	2
Orientation 103.....	Survey of Agriculture.....	1	..
Mathematics 101 .....	.....	..	2
		<hr/>	<hr/>
		15 $\frac{1}{2}$	16 $\frac{1}{2}$

		1st Sem.	2d Sem.
<i>Sophomore</i>			
Military 201-202.....	Basic Course .....	1	1
Physical Education 201-202.....	Advanced Exercises .....	$\frac{1}{2}$	$\frac{1}{2}$
Animal Husbandry 203.....	Livestock Judging .....	3	..
Agronomy 216.....	Soils .....	..	3
Agronomy 201.....	Field Crops .....	3	..
Agronomy 202.....	Forage Crops .....	..	3
Education 190.....	School Law .....	2	..
Poultry 101.....	Farm Poultry Management .....	3	..
Farm Mechanics 220.....	General Mechanics .....	..	2
Agr. Economics 101-102.....	Principles of Economics with Application to Agriculture.....	3	3
Chemistry 242.....	Introductory Organic .....	..	3
Electives .....	.....	2	2
		17 $\frac{1}{2}$	17 $\frac{1}{2}$

*Junior*

Animal Husbandry 330.....	Feeds and Feeding.....	..	3
Dairy Husbandry 352.....	Milk Production .....	..	3
Agr. Economics 245.....	Farm Accounting .....	3	..
Farm Mechanics 341-332.....	Farm Machinery, Farm Structures.....	2	2
Agronomy 353.....	Irrigation .....	2	..
Psychology 221 .....	Educational .....	..	3
Education 310.....	Problems in Secondary Education.....	2	..
Farm Mechanics 212.....	Welding .....	..	2
Animal Husbandry 301.....	Anatomy and Physiology of Farm Animals .....	3	..
Political Science 301-302.....	Constitution of United States and Nevada .....	1	1
Electives .....	.....	4	3
		17	17

*Senior*

		1	2	3
		Six Weeks		
Agronomy 359.....	Range Management .....	3	..	..
Agronomy 317.....	Soil Fertility .....	3	..	..
Agronomy 401.....	Crop Standards .....	2	..	..
Farm Mechanics 485.....	Methods of Farm Shop.....	2	..	..
Farm Mechanics 453.....	Gas Engines and Tractors.....	2	..	..
Education 446.....	Problems in Agricul- tural Education .....	..	..	2
Education 447.....	Methods of Teaching.....	..	3	..
Education 420.....	Practice Teaching .....	..	..	6
Education 482.....	Noninstructional Responsibility of High School Teachers.....	..	1	..
Electives .....	.....	5	2	..
		17	15	

## SUGGESTED ELECTIVES

*Sophomore*

		1st Sem.	2d Sem.
English 111.....	Public Speaking .....	2	..
Sociology 350.....	Rural Sociology .....	..	2

Junior

		<i>1st</i> <i>Sem.</i>	<i>2d</i> <i>Sem.</i>
Agronomy 346.....	Weed Control .....		3
Journalism 370.....	Agricultural and Home Economics..	2	..
Animal Husbandry 458.....	Range Livestock Management.....	2	..
Horticulture 356.....	Vegetable Growing .....		3
Farm Mechanics 211.....	Forging .....	2	..
Mathematics 102.....	Plane Trigonometry .....	2	..

Senior

Dairy Husbandry 462.....	Special Problems .....		2
Agr. Economics 467.....	Agricultural Prices .....	3	..
Agr. Economics 357.....	Marketing Agricultural Products....	3	..
Agr. Economics 355.....	Farm Finance .....	2	..
Animal Husbandry 455.....	Advanced Feeding .....	3	..
Horticulture 201.....	Ornamental Horticulture .....	2	..
Civil Engineering 241.....	Plane Surveying .....	3	..
Education 145.....	Visual Aids .....	3	..
Journalism 370.....	Agricultural and Home Economics..	2	..

PLANT PRODUCTION MAJOR  
AGRONOMY—CROPS OPTION

Uniform Freshman Year  
(See Page 175)

		15½	16½
		<i>1st</i> <i>Sem.</i>	<i>2d</i> <i>Sem.</i>
<i>Sophomore Year</i>			
Military 201-202.....	Basic Course .....	1	1
Physical Edu. 201-202.....	Advanced Exercises .....	½	½
Agr. Economics 201.....	Principles of Economics with Application to Agriculture.....	3	..
Chemistry 242.....	Introductory Organic .....		3
Agronomy 201.....	Field Crops .....	3	..
Agronomy 202.....	Forage Crops .....		3
Farm Mechanics 211.....	Forging .....	2	-
Agronomy 216.....	Soils .....		3
English 111.....	Public Speaking .....	2	..
Botany 222.....	Taxonomy .....		4
Electives .....		5	2
		<hr/>	<hr/>
		16½	16½

Junior Year

Farm Mechanics 220.....	General Mechanics .....		2
Agronomy 317.....	Soil Fertility .....	3	..
Agronomy 359-360.....	Principles of Range and Pasture Management .....	3	3
Agronomy 346.....	Weeds and Weed Control.....		3
Agronomy 355.....	Crop Ecology .....	3	..
Agronomy 367.....	Literature of Field Crops, or 460.....	2	..
Botany 355.....	Plant Physiology .....	4	..
Zoology 350.....	Genetics .....		2
Electives .....		2	7
		<hr/>	<hr/>
		17	17

		1st Sem.	2d Sem.
<i>Senior Year</i>			
Agronomy 353.....	Irrigation and Drainage.....	2	..
Farm Mechanics 354.....	Irrigation Structures .....	..	2
Agronomy 456.....	Crop Improvement .....	..	3
Political Science 301-302.....	Constitution of United States and Nevada .....	1	1
Botany 364.....	Plant Pathology .....	4	..
Zoology 359.....	Entomology .....	3	..
Horticulture 356.....	Vegetable Crops .....	..	3
Agr. Economics 476.....	Farm Management .....	..	3
Electives .....		7	4
		17	16

*Crops Option—Suggested Electives*

		<i>Credits</i>	
Geology 110.....	Engineering Geology .....	3	
Physics 153-154.....	General Physics .....	3	+3
Geography 109.....	Climatology .....	3	
Horticulture 353.....	Fruit Growing .....	3	
Farm Mechanics 332.....	Farm Machinery and Equipment.....	2	
Agr. Economics 245.....	Farm Accounting .....	3	
Agr. Economics 356.....	Land Economics .....	2	
Animal Husbandry 203.....	Livestock Judging .....	3	
Animal Husbandry 330.....	Feeds and Feeding.....	3	
Agronomy 457.....	Experimental Methods in Agronomy Research .....	3	
Dairy Husbandry 352.....	Milk Production .....	3	
Botany 494.....	Seminar .....	1	-2
Agronomy 316.....	Soil Conservation .....	3	
Farm Mechanics 353.....	Gas Engines and Tractors.....	2	
Farm Mechanics 335.....	Advanced Mechanics .....	2	
Farm Mechanics 312.....	Welding .....	2	
Agronomy 401.....	Crop Standards .....	2	
Journalism 370.....	Agricultural Journalism .....	3	

## RANGE AND PASTURE MANAGEMENT

*Uniform Freshman Year*

(See Page 175)

		15½	16½
<i>Sophomore Year</i>			
Military 201-202.....	Basic Course .....	1	1
Physical Edu. 201-202.....	Advanced Exercises .....	½	½
Agr. Economics 201.....	Principles of Economics with Applications to Agriculture.....	3	..
Chemistry 242.....	Introductory Organic .....	..	3
Mathematics 102.....	Plane Trigonometry .....	3	..
Agronomy 202.....	Forage Crops .....	..	3
Botany 222.....	Taxonomy .....	..	4
Farm Mechanics 211.....	Forging .....	2	..
Agronomy 216.....	Soils .....	..	3
Animal Husbandry 203.....	Livestock Judging .....	3	..
English 111.....	Public Speaking .....	2	..
Electives .....		2	2
		16½	16½

Junior Year

		1st Sem.	2d Sem.
Agronomy 316.....	Soil Conservation .....	--	3
Agronomy 359-360.....	Principles of Range and Pasture Management .....	3	3
Agronomy 346.....	Weeds and Weed Control .....	--	3
Agronomy 464.....	Range Field Trip .....	--	1
Animal Husbandry 330.....	Feeds and Feeding .....	--	3
Agronomy 353.....	Irrigation and Drainage.....	2	--
Botany 355.....	Plant Physiology .....	4	--
Civil Engineering 241.....	Surveying .....	3	--
Electives .....		5	4
		<hr/>	<hr/>
		17	17

Senior Year

Farm Mechanics 354.....	Irrigation Structures .....	--	2
Botany 475.....	Plant Ecology .....	4	--
Botany 354.....	Agrostology .....	--	3
Agr. Economics 245.....	Farm Accounting .....	3	--
Zoology 359.....	Entomology .....	3	--
Agronomy 469.....	Range Literature .....	2	--
Agronomy 468.....	Advanced Range Management.....	--	3
Animal Husbandry 458.....	Range Livestock Management.....	--	2
Political Science 301-302.....	Constitution of United States and Nevada .....	1	1
Electives .....		4	5
		<hr/>	<hr/>
		17	16

Range and Pasture Option—Suggested Electives

		Credits
Agronomy 317.....	Soil Fertility .....	3
Farm Mechanics 332.....	Farm Machinery and Equipment.....	2
Agr. Economics 356.....	Land Economics .....	2
Geology 110.....	Engineering Geology .....	3
Physics 151-152 and 153-154.....	General Physics .....	3 +3
Zoology 350.....	Genetics .....	2 or 3
Agr. Economics 476.....	Farm Management .....	3
Animal Husbandry 301.....	Anatomy and Physiology of Farm Animals .....	3
Animal Husbandry 302.....	Diseases of Farm Animals and Poultry .....	2
Dairy Husbandry 352.....	Milk Production .....	3
Botany 364.....	Plant Pathology .....	4
Farm Mechanics 220.....	General Mechanics .....	2
Botany 476.....	Plant Ecology .....	4
Agronomy 201.....	Field Crops .....	3
Journalism 370.....	Agricultural Journalism .....	3
Mathematics 101.....	Intermediate Algebra .....	2
Mathematics 102.....	Plane Trigonometry .....	3

## AGRONOMY—SOILS OPTION

Uniform Freshman Year (See Page 175)

With Chemistry 122 or 124 required in the second semester.

		15½	16½
		<i>1st</i>	<i>2d</i>
		<i>Sem.</i>	<i>Sem.</i>
<i>Sophomore Year</i>			
Military 201-202.....	Basic Course .....	1	1
Physical Edu. 201-202.....	Advanced Exercises .....	½	½
Agr. Economics 201-202.....	Principles of Agricultural Economics .....	3	3
Farm Mechanics 211.....	Forging .....	2	..
Agronomy 201.....	Field Crops .....	3	..
Agronomy 202.....	Forage Crops .....	..	3
Agronomy 216.....	Soils .....	..	3
English 111.....	Public Speaking .....	2	..
Chemistry 231.....	Quantitative Analysis .....	3	..
Chemistry 232 or 242.....	Quantitative Analysis or Introductory Organic .....	..	3
Electives .....	.....	2	3
		<hr/>	<hr/>
		16½	16½
<i>Junior Year</i>			
Botany 355.....	Plant Physiology .....	4	..
Agronomy 317.....	Soil Fertility .....	3	..
Agronomy 315.....	Soil Genesis .....	3	..
Farm Mechanics 220.....	General Mechanics .....	..	2
Agronomy 316.....	Soil Conservation .....	..	3
Physics 151-152, 153-154.....	General Physics .....	4	4
Geology 110.....	Engineering Geology .....	..	3
Electives .....	.....	3	5
		<hr/>	<hr/>
		17	17
<i>Senior Year</i>			
Botany 364.....	Plant Pathology .....	4	..
Botany 351.....	General Bacteriology .....	4	..
Political Science 301-302.....	Constitution of United States and Nevada .....	1	1
Agronomy 353.....	Irrigation and Drainage.....	2	..
Farm Mechanics 356.....	Irrigation Structures .....	..	2
Agronomy 471a.....	Soil Seminar .....	..	1
Agronomy 318.....	Soil Analysis .....	..	3
Agr. Economics 476.....	Farm Management .....	..	3
Farm Mechanics 332.....	Farm Machinery and Equipment.....	..	2
Electives .....	.....	6	4
		<hr/>	<hr/>
		17	16

Suggested Electives—

For students more interested in Technical Soils:		Credits
Chemistry 232.....	Quantitative Analysis.....	3
Chemistry 341-342.....	Organic Chemistry in place of 242.....	8
Mathematics 101.....	Intermediate Algebra.....	2
Mathematics 110.....	College Algebra.....	3
Mathematics 102.....	Plane Trigonometry.....	2
Mathematics 140.....	Analytical Geometry.....	3
Agronomy 415.....	Soil Physics.....	3
Civil Engineering 241.....	Surveying.....	3

For students more interested in General Soils:		
Farm Mechanics 353.....	Advanced Agricultural Mechanics.....	2
Botany 222.....	Taxonomy.....	4
Agronomy 355.....	Crop Ecology.....	3
Agronomy 359-360.....	Range and Pasture Management.....	6
Agronomy 346.....	Weeds and Weed Control.....	3
Agronomy 457.....	Experimental Methods in Agronomic Research.....	3
Geography 109.....	Climatology.....	3
Agr. Economics 356.....	Land Economics.....	2
Horticulture 356.....	Vegetable growing.....	3
Zoology 359.....	Entomology.....	3
Animal Husbandry 203.....	Stock Judging.....	3
Animal Husbandry 330.....	Feeds and Feeding.....	3
Dairy Husbandry 352.....	Milk Production.....	3
Farm Mechanics 212.....	Welding.....	2
Farm Mechanics 353.....	Gas Engines and Tractors.....	2
Civil Engineering 241.....	Surveying.....	3
Journalism 370.....	Agricultural Journalism.....	3

HORTICULTURE OPTION

Uniform Freshman Year

(See Page 175)

Sophomore Year

		1st Sem.	2d Sem.
Military 202-202.....	Second Year Elementary Military....	1	1
Physical Edu. 201-202.....	Advanced Exercises.....	½	½
Agr. Economics 101-102.....	Principles of Agr. Economics.....	3	3
Horticulture 201.....	Ornamental Horticulture.....	2	..
Horticulture 204.....	Plant Propagation.....	..	2
Botany 221.....	Plant Morphology and Anatomy.....	3	..
Agronomy 216.....	Soils.....	..	3
English 111.....	Public Speaking.....	2	..
Chemistry 242.....	Introductory Organic.....	..	3
Farm Mechanics 211.....	Forging.....	2	..
Farm Mechanics 220.....	Farm Utilities.....	..	2
Electives.....		3	2
		16½	16½

		<i>Junior Year</i>	<i>1st Sem.</i>	<i>2d Sem.</i>
Horticulture 353.....	Fruit Growing.....		3	..
Horticulture 356.....	Vegetable Growing.....		..	3
Botany 361.....	Plant Diseases.....		4	..
Farm Mechanics 332.....	Farm Machinery.....		..	2
Zoology 359.....	Insects.....		3	..
Zoology 350.....	Genetics.....		..	2
Agronomy 317.....	Soil Fertility.....		3	..
Geology 110.....	Engineering Geology.....		..	3
Agr. Economics 355.....	Rural Finance.....		2	..
Agr. Economics 352.....	Agricultural Economic Policy.....		..	3
Electives.....			2	4
			17	17

		<i>Senior Year</i>		
Political Science 301.....	Constitution of United States and Nevada.....		1	1
Botany 355.....	Plant Physiology.....		4	..
Agronomy 453.....	Irrigation.....		2	..
Farm Mechanics 356.....	Irrigation Structures.....		..	2
Horticulture 354.....	Pest and Disease Control.....		..	2
Farm Mechanics 353.....	Gas Engines and Tractors.....		2	..
Horticulture 491-492.....	Special Problems in Horticulture.....		3	3
Electives.....			5	9
			17	17

*Recommended Courses*

Journalism 370.....	Agricultural Journalism.....		..	3
Agronomy 316.....	Soil Conservation.....		..	3
Agronomy 201-202.....	Field and Forage Crops.....		3	3
Agronomy 346.....	Weeds and Weed Control.....		..	3
Farm Mechanics 435.....	Advanced Agricultural Mechanics.....		2	..
Farm Mechanics 341.....	Farm Structures.....		2	..
Agr. Economics 245.....	Farm Accounting.....		3	..
Agr. Economics 357.....	Marketing of Agri. Products.....		3	..
Agr. Economics 476.....	Farm Management.....		..	3



ANIMAL PRODUCTION MAJOR

Uniform Freshman Year

(See Page 175)

		15½	16½
<i>Sophomore Year</i>		<i>1st Sem.</i>	<i>2d Sem.</i>
Military 201-202.....	Basic Course.....	1	1
Physical Edu. 201-202.....	Advanced Exercises.....	½	½
Agr. Economics 101-102.....	Principles of Economics with Application to Agriculture.....	3	3
Animal Husbandry 203.....	Livestock Judging.....	3	..
Agronomy 101-102.....	Field Crops—Forage Crops.....	3	3
Chemistry 242.....	Introductory Organic.....	..	3
Farm Mechanics 211.....	Forging.....	2	..
Farm Mechanics 220.....	General Mechanics.....	..	2
Horticulture 204.....	Plant Propagation.....	..	2
Poultry Husbandry 101.....	Farm Poultry Management.....	3	..
Agronomy 216.....	Soils.....	..	3
English 111.....	Public Speaking.....	2	..
		<hr/>	<hr/>
		17½	17½
<i>Junior Year</i>			
English 112.....	Public Speaking.....	..	2
Horticulture 356.....	Vegetable Production.....	..	3
Agronomy 359.....	Principles of Range and Pasture Management.....	3	..
Animal Husbandry 358.....	Range Livestock Management.....	2	..
Animal Husbandry 330.....	Feeds and Feeding.....	..	3
Animal Husbandry 356.....	Advanced Livestock Judging.....	3	..
Animal Husbandry 363-364.....	Animal Husbandry Literature.....	2	2
Farm Mechanics 341.....	Farm Structure.....	2	..
Dairy Husbandry 352.....	Milk Production.....	..	3
Electives.....		5	4
Recommended:			
Farm Mechanics 353-341			
Animal Husbandry 301-302			
		<hr/>	<hr/>
		17	17
<i>Senior Year</i>			
Political Science 301-302.....	Constitution of United States and Nevada.....	1	1
Animal Husbandry 455.....	Advanced Feeding.....	3	..
Animal Husbandry 466.....	Livestock Management.....	..	3
Farm Mechanics 332.....	Farm Machinery and Equipment.....	..	3
Farm Mechanics 212.....	Welding.....	..	2
Farm Mechanics 212.....	Farm Management.....	..	3
Agr. Economics 476.....	Farm Management.....	3	..
Agr. Economics 357.....	Marketing Agricultural Products.....	3	3
Agr. Economics 245.....	Farm Accounting.....	3	..
Electives.....		6	..
		<hr/>	<hr/>
		16	15

## 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.

These are days of challenging responsibilities, of great opportunities, to be better equipped to take ones place in the home and in the community.

Three areas of concentration are offered in order to meet individual needs: teaching, foods and nutrition, and general. The degree of Bachelor of Science in Home Economics is conferred upon satisfactory completion of 126 semester units.

HOME ECONOMICS TEACHING MAJOR

		<i>1st</i>	<i>2d</i>
		<i>Sem.</i>	<i>Sem.</i>
<i>Freshman Year</i>			
English 101-102.....	Composition and Rhetoric.....	3	3
Chemistry 101-102.....	General Inorganic Chemistry.....	4	2
Home Economics 103.....	Orientation .....	2	..
Home Economics 131.....	Food for Families		
or			
Home Economics 115.....	Clothing .....	3	..
Home Economics 132.....	Foods for Families		
or			
Home Economics 116.....	Textiles .....	..	3
Music 203 or 204.....	Music Appreciation.....	..	2
Physical Education 161-162.....	Freshman Practice.....	1	1
Art 101-102.....		2	..
Economics 218.....	Family Economics.....	..	3
Electives.....		..	1
		<hr/>	<hr/>
		15	15
<i>Sophomore Year</i>			
Physics 119.....	Physics of the Home.....	4	..
Home Economics 115.....	Clothing		
or			
Home Economics 131.....	Food for Families.....	3	..
Home Economics 116.....	Textiles		
or			
Home Economics 132.....	Foods .....	..	3
Home Economics 233.....	Nutrition and Health.....	3	..
Home Economics 367.....	Clothing the Family.....	..	3
Education 190.....	School Law.....	2	..
Journalism 370.....	Agricultural Journalism.....	..	3
English 111.....	Public Speaking.....	2	..
Psychology 221.....		..	3
Art.....	Appreciation or Crafts.....	2	..
Physical Education 261-262.....	Sophomore Practice.....	½	½
Electives.....		..	3
		<hr/>	<hr/>
		16½	16½
<i>Junior Year</i>			
Education 310.....	Problems in Secondary Education.....	2	..
Home Economics 475.....	Child Development.....	3	..
Home Economics 366.....	Advanced Clothing.....	..	3
Home Economics 253.....	Care of Family Health.....	3	..
Home Economics 476.....	Family Living.....	..	3
Home Economics 255.....	Meals for Families.....	..	4
Home Economics 487.....	Home Decoration.....	3	..
Home Economics 486.....	Managing Homes.....	..	3
Political Science 301.....	Constitution of United States.....	1	..
Sociology 380.....	The Family.....	..	3
Electives.....		5	2
		<hr/>	<hr/>
		17	18

		1st Sem.	2d Sem.
<i>Senior Year</i>			
Home Economics 499.....	Demonstration .....	3	3
Education 489.....	Methods in Teaching Homemaking.....	2	..
Home Economics 488.....	Household Equipment.....	..	3
Education 488.....	Problems in Homemaking Edu.....	..	..
Botany 351.....	General Bacteriology.....	4	..
Education 475-476.....	Supervised Teaching in High School.....	..	6
Political Science 302.....	Constitution of Nevada.....	1	..
Education 482.....	Noninstructional Responsibility of High School Teacher.....	..	2
Elective.....		5	..
		15	14

Recommended:  
Horticulture 201

### FOODS AND NUTRITION MAJOR

		1st Sem.	2d Sem.
<i>Freshman Year</i>			
English 101-102.....	Composition and Rhetoric.....	3	3
Chemistry 101-102.....	General Inorganic.....	4	2
Home Economics 131-132.....	Foods .....	3	3
Home Economics 103.....	Orientation .....	2	..
Chemistry 242.....	Introductory Organic.....	..	3
Sociology 102.....		..	3
Physical Education 161-162.....		1	1
Electives.....		2	1
		15	16
<i>Sophomore Year</i>			
Physics 119.....		4	..
Home Economics 116.....	Textiles .....	..	3
Psychology 201.....	General .....	3	..
Psychology 241.....		..	3
Philosophy 221.....		..	3
Economics 218.....		..	3
Agricultural Economics 201.....		3	..
Physical Education 261-262.....		1	1
Electives.....		5	4
		15½	16½

### *Junior Year*

Chemistry 271.....	Physiological .....	5	..
Home Economics 334.....	Nutrition .....	..	3
Home Economics 499.....	Demonstration .....	3	..
Home Economics 493.....	Experimental Foods.....	2	..
English 315.....		..	2
Home Economics 255.....	Meal Planning.....	..	4
Zoology 346.....	Physiology .....	..	5
Electives.....		5	2
		15	16

<i>Senior Year</i>		<i>1st Sem.</i>	<i>2d Sem.</i>
Home Economics 491.....		3	..
Home Economics 475-476.....		3	3
Home Economics 436.....	Nutrition .....	..	3
Political Science 301-302.....	Constitution United States and Nevada.....	1	1
Biology 351.....	Bacteriology .....	4	..
Home Economics 498.....		..	3
Home Economics 496.....		..	3
Home Economics 402.....	Seminar .....	..	3
Electives.....		5	..
		<hr/>	<hr/>
		16	16

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## GRADUATE STUDY

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### 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.

Every department reserves the right to determine what candidates it will accept for graduate work.

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.

It should be emphasized, however, that, although there are these certain formal requirements expressed in a specified number of hours, the student should not think of graduate work as primarily the completion of a number of required courses. These courses are intended to give the student a comprehensive understanding of his whole major field and of some segment of his minor field. This understanding will be checked in the final oral examination.

4. *The Thesis.* Graduate work is intended to prepare the student in search of truth as yet undiscovered. The master's degree at the University of Nevada is designed to lay the foundation for further graduate study and research. This objective of graduate study is sought in the thesis requirement.

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. *Credits for the Thesis.* When the candidate has been recommended by the Graduate Committee and approved by the Faculty for the master's degree, six credits will be recorded on his official scholarship record for the work completed on the thesis.

6. *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. In the examination the student should be able to demonstrate a comprehensive understanding of a broad field, and a somewhat more detailed understanding of a more limited field. The examination may cover also the contents of the thesis, and facts, principles, or theories related to or suggested by the thesis.

## 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 COURSES

Graduate courses consist of those numbered 500 and above, and of such courses numbered 300 to 500 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.

## FEEES

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.

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\*Graduate students must be certain that the course carries graduate credit.

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: a representative of the major department, a representative of the minor department, a member of the Graduate Committee, some member to represent the faculty at large, and the professor directing the thesis.

Whenever the decision of the examining committee is not unanimously favorable on either the examination or the thesis, it shall be the responsibility of the Graduate Committee to give consideration to the merits of the case and to make final determination.

### 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.
10. Veterans must carry a minimum number of 9 hours of graduate work to be eligible for full veterans' benefits. Veterans actually carrying on their thesis preparation while in residence may register for as many hours of thesis credit, to a maximum total of six for all semesters, as the chairman of the major department may approve; it must be understood that such thesis hours can not be included in the 24 hours of required graduate

course work, and that final credit for such registered hours will not be officially recorded until the candidate has been approved by the Faculty for the master's degree.

## 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.

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# Courses of Instruction

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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

- |   |                                 |
|---|---------------------------------|
| Agricultural Economics                            | Electrical Engineering          |
| Agronomy  | English Language and Literature |
| Crops   | Literature and Composition      |
| Soils   | Speech                          |
| Farm Mechanics                                    | Farm Mechanics (See Agronomy)   |
| Animal Husbandry                                  | Foreign Languages               |
| Dairy Husbandry                                   | French                          |
| Poultry Husbandry                                 | German                          |
| Art   | Italian                         |
| Astronomy (See Physics 107)                       | Latin                           |
| Athletics (See Physical Education)                | Portuguese                      |
| Biology   | Spanish                         |
| Botany  | Geography                       |
| Zoology   | Geology                         |
| Business (See Economics, Business, and Sociology) | German (See Foreign Languages)  |
| Chemistry   | History and Political Science   |
| Civil Engineering                                 | Home Economics                  |
| Crops (See Agronomy)                              | Horticulture                    |
| Dairy Husbandry (See Animal Husbandry)            | Italian (See Foreign Languages) |
| Economics, Business, and Sociology                | Journalism                      |
| Education   | Latin (See Foreign Languages)   |
| Kindergarten—Primary                              | Library Science                 |
| General Elementary                                | Mathematics and Mechanics       |
| Secondary   | Mechanical Engineering          |
| Educational Psychology                            | Mechanic Arts                   |
| Vocational Agriculture                            | Metallurgy                      |
|   | Military Science and Tactics    |
|   | Mineralogy (See Geology)        |
|   | Mining                          |

Music	Poultry Husbandry (See Animal Husbandry)
Philosophy	Psychology
Physical Education	Spanish (See Foreign Languages)
Men	Sociology (See Economics, Business, and Sociology)
Women	Soils (See Agronomy)
Physics	Speech (See English)
Political Science (See History and Political Science)	Zoology (See Biology)
Portuguese (See Foreign Languages)	

### COURSE NUMBERS

The numbers prefixed to courses ordinarily denote the classes of students for whom the work is primarily intended. The following rules apply:

1. The capital letters, A, B, C, etc., designate noncredit courses.
2. The numbers 101-299 designate lower-division courses. The numbers 101-199 are used for courses *primarily* for freshmen. Usually beginning courses in all subjects are designated 101, 102, etc. The numbers 201-299 are used for courses *primarily* for sophomores.
3. The numbers 301-499 designate upper-division courses.
4. The numbers 501-599 designate courses *primarily* for graduate students, but to which juniors or seniors of superior scholastic standing may be admitted upon approval of the instructor and department chairman concerned.
5. For courses extending beyond one semester, an odd number designates the first part of the course.
6. When the same course may be repeated for credit, successive terms of the course may be designated by the small letters *a, b, c, etc.*, following the course number.
7. Numbers joined by a hyphen (101-102, 315-316, etc.), indicate that the course extends throughout the year.

NOTE—Numbers in parentheses are designations used before September, 1948.

## AGRICULTURAL ECONOMICS

PROFESSOR WITTWER (Chairman of Department), PROFESSOR TITUS.

201 (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.*

202 (2). PRINCIPLES OF ECONOMICS WITH APPLICATIONS TO AGRICULTURE. A continuation of 201.

*Second semester. Three credits. Wittwer.*

245 (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.*

352 (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 201 and 202. Second semester. Three credits. Wittwer.*

355 (55). **AGRICULTURAL 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.*

356 (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 201 and 202. Second semester. Two credits. Wittwer.*

357 (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.*

464 (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 to cooperative associations. The organization, financing and management of different types of cooperative marketing and purchasing associations.

*Junior year. Second semester. Two credits. Wittwer.*

465 (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.*

471 (71). **CURRENT ECONOMIC PROBLEMS OF AGRICULTURE.** Business cycles and trends, foreign trade, taxation, farm labor problems, and other topics of special interest will be studied in their relation to agriculture.

*Prerequisite: Agricultural Economics 201 and 202 or consent of instructor. First semester. Two credits. Wittwer.*

476 (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; and management of fields; crops, and manures.

*Prerequisite:* Senior standing. *Second semester. Three credits.* Wittwer.

484 (84). RESEARCH AND EXTENSION ORGANIZATION AND METHODS. A study of extension and research organization and methods, with emphasis on economics and marketing problems. 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.

598-599 (199-200). THESIS COURSE IN AGRICULTURAL ECONOMICS.

*Either semester. Credit to be arranged.* Wittwer.

## AGRONOMY

Professor TITUS (Chairman of Department); Associate Professors ROBERTSON, DUNN.

### Crops

201 (5). FIELD CROPS. A study of cereal, root, tuber, fiber, and stimulant crops; their classification, distribution, improvement, culture, harvesting, storage, and marketing. Identification of crop plants and seeds.

*Prerequisite:* Botany 103. *First semester. Two lectures; one laboratory period. Three credits. Fee \$2.* Robertson.

202 (2). FORAGE CROPS. The establishment and utilization of annual and perennial forage crops; the conservation of native and tame meadows and pastures, with special emphasis on alfalfa and wild hay. Laboratory study of the botanical characteristics of forage plants.

*Prerequisite:* Botany 103. *Second semester. Two lectures; one laboratory period. Three credits. Fee \$2.* Robertson.

346 (46). WEEDS AND WEED CONTROL. Recognition of noxious and common competitive and poisonous weeds, their biological and economic effects on crops and livestock. Practice in methods of control on University farm.

*Prerequisites:* Chemistry 242, Agronomy 202. Botany 222 or 355. *Second semester. Two lectures; one laboratory period. Three credits. Fee \$5.* Robertson.

355 (55). CROP ECOLOGY. Adaptation and environment of crop plants. A study of these aspects of the social, and ecological environments which influence the production and determine the distribution of field crops.



*Prerequisites:* Botany 355, or concurrent, Agronomy 201 or 202 and 216. *First semester.* Given in alternate years. *Three lectures. Three credits.* Robertson.

359, 360 (60, 67). PRINCIPLES OF RANGE AND PASTURE MANAGEMENT. A basic course in the management of pastures and ranges with emphasis on native forage plants. Also the development and scope of the grazing industry, field recognition of important range plants, indicators of range and pasture condition, utilization standards.

*Prerequisite:* Agronomy 216, Botany 222 or 355. *Two lectures; one laboratory period.* Four or five field trips each semester. *Three credits each semester.* Fee \$5. Robertson.

367. CEREAL CROP LITERATURE. Five hours reading of selected original papers, classic and current. One hour weekly for discussion and reports.

*First semester.* No lectures. Meeting time arranged. Given in alternate years. *Two credits.* Robertson.

401. CROP STANDARDS. Standards of excellence for field crops. Crop inspection. Crop display. Practice in crop judging and grading.

*Prerequisites:* Agronomy 201 and 202. *First semester.* Given in alternate years. *One lecture; one laboratory period. Two credits.* Fee \$3. Robertson.

456. CROP IMPROVEMENT. Application of genetics to the problems of crop improvement. Heredity and variation in crop plants. Principles and results of selection and hybridization in the improvement of crops. Demonstrations.

*Prerequisites:* Junior standing. Zoology 350. *Second semester.* *Three lectures. Three credits.* Given in alternate years. Dunn.

464. RANGE AND PASTURE FIELD TRIP. A one-week excursion through Nevada to study range and pasture problems and practices. Only transportation furnished. June 6-12, following junior year.

*Prerequisites:* Agronomy 359 and 360. *One credit.* Fee \$3. Robertson.

468. ADVANCED RANGE MANAGEMENT. Administration and management of range land, range surveying and management planning, technique of range research.

*Prerequisites:* Botany 222 and 355, Zoology 337, Agronomy 359 and 360. *Second semester.* *Two lectures; one laboratory period. Three credits.* Fee \$5. Robertson.

469. PASTURE AND FORAGE CROP LITERATURE. Five hours reading of selected original papers, classic and current. One hour weekly for discussion and reports.

*First semester.* No lectures. Meeting time arranged. Given in alternate years. *Two credits.* Robertson.

513a (200). THESIS COURSE IN AGRONOMY.

*Either semester. Credit to be arranged.* Robertson.

## Soils

216 (7). SOILS. Nature and properties of soils. Soil and plant relations. Soil colloids, soil reaction and alkali; soil organisms and organic matter; soil moisture. Origin, development and classification of soils.

*Prerequisites:* Chemistry 102. *Second semester. Two lectures, one laboratory period. Three credits. Fee \$3. Dunn.*

315 (61). SOIL GENESIS, CLASSIFICATION AND SURVEY. The formation and classification of soils. Classification of soils on the basis of capability or efficient use. The distribution, chemical and physical properties and uses of the major soil groups. Soil survey.

*Prerequisites:* Junior standing. *First semester. Two lectures; one laboratory period. Three credits. Given in alternate years. Fee \$3. Dunn.*

316 (66). SOIL CONSERVATION. Soil as a natural resource and the soil erosion problem. A study of the nature of soil erosion and of factors influencing soil erosion and water loss. Methods and farm practices for soil and water conservation. The program and work of the Soil Conservation Service and other organizations which aid in soil conservation. Soil capability, land use, and farm plans. Field trips.

*Prerequisites:* Junior standing. *Second semester. Two lectures; one laboratory period. Three credits. Fee \$3. Dunn.*

317 (62). SOIL FERTILITY. Requirements for the production of field crops. Concepts of soil fertility and productivity. A study of the various plant nutrients as applied to soils. Manures, green manures, crop residues and commercial fertilizers. Maintenance of soil fertility. Laboratory methods in soil fertility.

*Prerequisites:* Junior standing. *First semester. Two lectures; one laboratory period. Three credits. Fee \$3. Dunn.*

318 (61). SOIL ANALYSIS. Laboratory methods in soil analysis. Total analysis of a soil; base exchange capacity and exchangeable bases; soil reaction and soluble salts. Tests for available nutrients.

*Prerequisites:* Junior standing. Chemistry 231. *Second semester. Two lectures; one laboratory period. Three credits. Given in alternate years. Fee \$3. Dunn.*

353 (54). IRRIGATION AND DRAINAGE. Principles underlying irrigation and drainage in regard to soil and plant relationships. Nature and movement of water in soils. Water requirements and the relation of soil moisture to the growth of crops. Principles involved in the reclamation of alkali soils.

*Prerequisites:* Junior standing. *First semester. Two lectures. Two credits. Dunn.*

415. SOIL PHYSICS. Characteristics of soils and soil colloids. Soil, air, moisture, temperature and structure. The effects of

mulches, tillage, fertilizers and other chemicals, and various cropping practices upon physical properties of soils.

*Prerequisites:* Junior standing. *First semester. Two lectures; one laboratory period.* Given in alternate years. Three credits. Fee \$3. Dunn.

417. **ADVANCED SOIL CONSERVATION.** A detailed study of the application of various practices and methods of farming, for soil and water conservation and for permanent agriculture.

*Prerequisites:* Agronomy 316 and 317 or 360. *First semester. Three lectures. Three credits.* Dunn.

457. **EXPERIMENTAL METHODS IN AGRONOMIC RESEARCH.** Principles and methods of field experimentation. Interpretation of results. Application of statistical methods.

*Prerequisites:* Junior standing. Mathematics 220 or consent of instructor. *First semester. Three lectures. Three credits.* Dunn.

471a. **SOILS SEMINAR.** Presentation and discussion of articles taken from the literature in soils research.

*Prerequisites:* Junior Standing. *Either semester. One credit.* Dunn.

473a. **SPECIAL PROBLEMS IN SOILS.**

*Either semester. Credit to be arranged.* Dunn.

521a. **RESEARCH IN SOILS.**

*Either semester. Credit to be arranged.* Dunn.

523a. **THESIS COURSE IN SOILS.**

*Either semester. Credit to be arranged.* Dunn.

### *Farm Mechanics*

211 (11). **FORGING.** Instruction and laboratory practice in the heating, bending, shaping, and welding of mild steel. Forging and tempering of tool steel; general forging.

*First semester. Two credits. Fee \$5.* Titus.

220 (20). **GENERAL MECHANICS.** Tool sharpening and fitting, saw filing, ropework, blocks and tackle, belts, pulleys, pipe fitting, soldering, sheetmetal work, threading, taps and dies, abrasives.

*Second semester. Two laboratory periods. Two credits. Fee \$5.* Titus.

312. **WELDING.** Instruction and practice in acetylene and arc welding as related to farm and ranch; with particular application to the common metals, iron, steel, cast iron, aluminum, etc. Practice in brazing, low temperature welding, and hard facing.

*Prerequisite:* Farm Mechanics 211. *Second semester. One lecture, one laboratory. Two credits. Fee \$7.50.* Titus.

332 (32). **FARM MACHINERY AND EQUIPMENT.** A study of the construction, operation, care, and repair of farm machinery and equipment.

*Second semester. One lecture, one laboratory. Two credits. Fee \$5.* Titus.

335 (35). **ADVANCED AGRICULTURAL MECHANICS.** A continuation course in general mechanics covering pumps and their operation, domestic water supply, sewage, refrigeration, electrical equipment and appliances on the farm and in the home.

*Prerequisite:* Farm Mechanics 220. *First semester. One lecture, one laboratory. Two credits. Fee \$5. Titus.*

341 (41). **FARM STRUCTURES.** Building materials and their use, concrete masonry, farming construction, elementary drafting, blueprint reading, cost estimating, lighting, heating, ventilation, painting.

*First semester. One lecture, one laboratory. Two credits. Fee \$5. Titus.*

353 (53). **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 \$5. Titus.*

356 (54). **IRRIGATION STRUCTURES.** A course designed to acquaint the student with the mechanics of getting irrigation water onto the land. Measurement of water, sources of water supply, preparation of land, methods of irrigation, irrigation structures, water law, drainage.

*Prerequisite:* Agronomy 353. *Second semester. One lecture, one laboratory. Two credits. Fee \$5. Titus.*

485 (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

Professors WILSON (Chairman of Department), SCOTT; Mr. VAWTER.

101 (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. Wilson.*

203 (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 101. *First semester. Lectures, two hours; laboratory, two periods. Four credits. Fee \$10. Wilson.*

253 (53). LIVESTOCK REGISTRATION. The details of registering purebred 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.

*Prerequisites:* Animal Husbandry 101 and 203. *First semester. One credit.* Wilson.

301. ANATOMY AND PHYSIOLOGY OF FARM ANIMALS. A lecture course designed for students majoring in animal husbandry, dairy science or range management. Dealing with the anatomical structures and physiology of farm animals.

*Prerequisite:* Animal Husbandry 330. *First semester. Three credits.* Vawter.

302. DISEASES OF FARM ANIMALS AND POULTRY. A lecture course dealing with the infections, contagious and nutritional diseases, and parasitisms common to this region or of world-wide importance with methods of control and livestock sanitary regulations.

*Prerequisite:* Animal Husbandry 301. *Second semester. Two credits.* Vawter.

330 (30). LIVESTOCK FEEDING. The principles underlying and problems connected with the feeding of range and ranch animals.

*Prerequisites:* Animal Husbandry 101 and 203. *Second semester. Lectures, three hours. Three credits.* Wilson.

352 (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 103. *Second semester. Lectures, three hours. Three credits.* Wilson.

356 (56). ADVANCED STOCK JUDGING. Comparative scoring and judging. The judging of animals in classes, as at fairs and stock shows.

*Prerequisite:* Animal Husbandry 203. *First semester. Three credits.* Fee \$5. Wilson.

358 (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.

*Prerequisites:* Animal Husbandry 101, 203, 330; Botany 222. *Second semester. Three credits.* Wilson.

363-364 (63-64). ANIMAL HUSBANDRY LITERATURE. 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. Graduate credit given with consent of instructor. Wilson.

455 (55). ADVANCED LIVESTOCK FEEDING. Continuation of animal husbandry 330.

*Prerequisite:* Animal Husbandry 330. *First semester. Lectures, three hours. Three credits.* Wilson.

459 (59). PROFESSIONAL JUDGING.

*First semester. Laboratory, one period. One credit.* Given in alternate years. Fee \$5. Wilson.

461-462 (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.

*Prerequisites:* Animal Husbandry 101, 203, 330, 352, 358, 455. This course may be taken with Course 358. *Both semesters. Four to six credits.* Fee \$3. Wilson.

466 (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.

*Prerequisites:* Animal Husbandry 101, 203, 330. *Second semester. Three credits.* Wilson.

### Dairy Husbandry

102 (1). ELEMENTS OF DAIRY HUSBANDRY. 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. Scott.

103. ORIENTATION IN AGRICULTURE. A course designed to acquaint the student with the history, functions, and services of the different divisions of the College of Agriculture, with the different State and Federal agencies serving agriculture in this

State, and with the various fields of instruction in the College of Agriculture.

*Freshman year. First semester. One credit. Agricultural Staff.*

352 (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 102. First semester. Lectures, two hours; laboratory, one period. Three credits. Fee \$5. Scott.*

354 (54). DAIRY MANUFACTURING. 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 102. 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.) Scott.*

355 (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 102 and Zoology 103. First semester. Lecture one hour. Laboratory, one period. Two credits. Fee \$5. Scott.*

457 (57). ADVANCED MILK PRODUCTION. Use of dairy herd books; special feeding for higher records; interpretation of official tests.

*Prerequisite: Dairying 102. First semester. Lectures, two hours. Two credits. Scott.*

461-462 (61-62). SEMINAR. 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 102 and 352 or 355. Either semester. Two to six credits. Fee \$3. Scott.*

### *Poultry Husbandry*

101 (1). 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.

*First semester. Two lectures, one laboratory. Three credits. Fee \$5. Scott.*

108 (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.

*Second semester. Two credits. Fee \$2. Scott.*

## ART

Assistant Professor SHEPPARD, Mrs. JOSLIN

Requirements for a minor in Art: Art 101 and 102 (4 credits), or 101 or 102 and Art 105 (4 credits), Art 103 or Art 115 (2 credits), and 12 additional credits in the department at least 6 of which must be in courses numbered 300 or above.

A total laboratory fee of \$10 per course will be charged to all visitors.

101-102 (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 several art media.

*Two credits each semester. Fee \$3. Joslin.*

103 (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.

*Two credits. Fee \$4. Joslin.*

105 (5). DESIGN. Problems in using natural and historic motifs in both two and three dimensional design. Laboratory practice in the creative use of design, color, theory, and their application to crafts, architecture, and industry.

*Two credits. Fee \$3. Sheppard.*

107 (1 E). FREEHAND DRAWING. *Designed for Engineers.*

*First semester only. One credit. Fee \$3. Sheppard.*

115 (15). ART APPRECIATION. Lecture and slides; course to illustrate the place of art in social and cultural life, past and present. Planned to give an intelligent appreciation of the visual arts by logical analysis and criticism of painting, sculpture, and architecture.

*Either semester. Two credits. Fee \$3. Sheppard.*

121 (21). FREEHAND DRAWING. Evening Class. Sketching from models and still life.

*Either semester. One credit. Fee \$3. Sheppard.*



251-252 (51-52). WATERCOLOR PAINTING. The technique and handling of watercolor in still life and landscape.

*Three credits each semester.* Fee \$3. This course may be repeated for credit as Art 351-352. Joslin.

253-254 (53-54). ADVANCED FREEHAND DRAWING. Drawing from models and still life in several media, charcoal, conti, chalk, etc. A preparation for work in portrait and life classes. Also rapid figure sketching in different media.

*Three credits each semester.* Fee \$3. This course may be repeated for credit as Art 353-354. Joslin.

257-258 (57-58). OIL PAINTING. The technique and handling of oil colors in still life, portrait, figure, and landscape.

*Three credits each semester.* Fee \$3. This course may be repeated for credit as Art 357-358. Sheppard.

261 (61). HISTORY OF ANCIENT AND CLASSICAL ART. Lecture and slides. The study of the related arts—painting, sculpture, and architecture from prehistoric man through Egypt, Babylon, Assyria, Crete, Greek and Roman periods.

*Three credits.* Fee \$3. Staff.

355-356 (55-56). COMMERCIAL ART. Lecture and laboratory. Practical modern methods of reproduction used in commercial art. Poster, illustration, bill board, and magazine advertisements. Problems in color and black and white, in various media: wash, pen and ink, show card, air brush, etc. Class is handled as much like an advertising agency as possible to give students actual working problems.

*Prerequisites:* Art 101-102-251-252. *Three credits each semester.* Fee \$3. Sheppard.

359-360 (59-60). ART STRUCTURE AND PICTORIAL COMPOSITION. Lecture and laboratory course in creative structure and graphic expression. An analytical approach to composition created through movement, color, techniques, theories, and methods.

*Two credits each semester.* Fee \$3. To be arranged. Staff.

362 (62). HISTORY OF EUROPEAN ART. Lecture and slides. The study of the related arts, painting, sculpture, and architecture of Europe from the Renaissance to the Moderns.

*Three credits.* Fee \$3. Staff.

363-364 (63-64). CLAY MODELING. An exploratory course in three dimensional form. Portrait, figure, and animals from life. Problems in the composition and design of form. Casting methods. To be arranged.

*Three credits each semester.* Fee \$5. Sheppard.

## BIOLOGY

Professor LEHENBAUER; Associate Professors BILLINGS, LOWRANCE (Chairman of Department); Assistant Professors RICHARDSON, FISHER, LARIVERS.

The department of biology includes the following divisions: botany 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 300 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 300 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.

### Botany

Requirements for a minor in botany: Botany 103 (3 credits), Botany 203 (4 credits), Botany 222 (4 credits), Botany 231 (3 credits), and 4 additional credits in the division of botany in courses numbered 300 or above.

Requirements for a major in botany: Botany 101 (3 credits), Botany 203 (4 credits), Botany 222 (4 credits), Botany 231 (3 credits), and 12 additional credits in the division of Botany in courses numbered 300 or above.

A year of chemistry is recommended for majors or minors in the division of botany.

Students planning to take a preforestry course should consult with the Chairman of the Department of Biology.

103 (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. Billings and Lehenbauer.*

203 (26). CRYPTOGAMIC BOTANY. The nonflowering 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. Lehenbauer.*

222 (22). TAXONOMY. A systematic and comparative study of the principal families of flowering plants represented in the local flora and the identification of plants by means of manuals.

*Prerequisite: Botany 103. Second semester. Two lectures; two laboratory periods. Four credits. Fee \$1. Billings.*

231 (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. Lehenbauer.*

315 (53). DENDROLOGY. The intensive study of the taxonomy, silvics, and practical identification of the important North American forest trees.

*Prerequisite: Botany 222. Second semester. One lecture; two laboratory periods. Three credits. Fee \$2. Alternates with Botany 317. Billings.*

317 (54). RANGE AGROSTOLOGY. The study of grasses, and practice in identification. Particular emphasis is given to range grasses.

*Prerequisite:* Botany 222. *Second semester. One lecture; two laboratory periods. Three credits. Fee \$2. Alternates with Botany 315. Billings.*

351 (Bacteriology 51). GENERAL BACTERIOLOGY. A course of lectures and laboratory exercises on the morphology and life processes of the bacteria, with some reference to allied organisms. Microorganisms to soil fertility, dairy products, water purity, sewage, and the production of disease will be considered.

*Prerequisite:* Zoology 103 or Botany 203. *First semester. Lectures, two hours; laboratory, two periods. Four credits. Fee \$5. Lowrance.*

355 (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 103 and 1 year of chemistry. *First semester. Three lectures; one laboratory period. Four credits. Fee \$4. Billings.*

364 (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 103 and preferably Botany 222. *First semester. Two lectures; two laboratory periods. Four credits. Fee \$4. Lehenbauer.*

370 (70). MICROTECHNIQUE. The preparation of materials and permanent slides of plants and animal tissues for microscopic study.

*Prerequisite:* 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.*

375 (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 231. *Second semester. One lecture; two laboratory periods. Three credits. Fee \$2. Lehenbauer.*

475-476 (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 is recognizing overgrazing, soil conditions, and forest sites.

*Prerequisite:* Botany 222. *Both semesters. Four credits each semester. Three lectures; one laboratory period or field trip. Fee \$4 each semester. Billings.*

491-492 (91-92). BOTANICAL PROBLEMS. Special problems in some field of botany. Assigned readings and reports.

*Prerequisite:* The equivalent of two years of botany. *One to three credits each semester.* Student is limited to a total of eight credits in these in Bontay 491-92. Lehenbauer and Billings.

495-496 (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. *One meeting per week. One or two credits each semester.* Lehenbauer and Billings.

549-550 (199-200). THESIS COURSE FOR GRADUATES.

### Zoology

Requirements for a minor in zoology: Zoology 101 or 103, Zoology 209 or 211, Zoology 350, and 8 credits in zoology courses above 300.

Requirements for a major in zoology: Zoology 103, Zoology 209, Zoology 350, and 15 credits in other zoology courses above 300.

Additional courses advised: Physics 151-152 (or admission credit), general chemistry, qualitative and quantitative analysis and organic chemistry; German 101-102 and 103-104.

101 (1). SURVEY OF ZOOLOGY. 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. Richardson.*

Students who have taken Zoology 101 may not take Zoology 103 except by special permission of the instructor and then for one credit only.

103 (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. Richardson.*

209 (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 103. *First semester. Lectures, three hours; laboratory, two periods. Five credits. Fee \$6. Richardson.*

211 (11). HUMAN ANATOMY. A course designed for pre-nursing 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 101 or equivalent. *First semester. Three lecture and two laboratory periods. Four credits. Fee \$6. Lowrance.*

259 (59). **ELEMENTARY ENTOMOLOGY.** An introduction to the principles of entomology: Life histories, morphology, physiology and classification of insects and a brief introduction to insect control. Each student will collect and identify insect specimens and will prepare field data.

*Prerequisite:* Zoology 101 or 103 or equivalent. *First semester. Two lectures; one laboratory. Three credits. Fee \$4.*

322 (22). **PARASITOLOGY.** Introductory study of the relation of animals to the causation and transmission of disease.

*Second semester. One lecture; one laboratory. Two credits. Fee \$3.* This course will be offered in alternate years only. Lowrance.

333 (60). **FISH AND REPTILES.** A course especially designed for field workers, teachers, and naturalists. It includes a study of the classification, variety, habits, and economic importance of fish and reptiles. Regular field trips are taken for the careful identification and observation of local forms.

*Prerequisite:* Zoology 101 or 103. *Second semester. Lecture, two hours; laboratory, one period. Three credits. Fee \$2. Alternates with Zoology 337. Richardson.*

335 (60). **BIRDS.** A course especially designed for field workers, teachers, and naturalists. Plan of study similar to Zoology 333.

*Prerequisite:* Zoology 101 or 103. *Second semester. Lecture, two hours; laboratory, one period. Three credits. Fee \$2. Richardson.*

337 (62). **MAMMALS.** A study especially of Nevada big game, fur bearers, and predatory mammals. Plan of study similar to Zoology 333.

*Prerequisites:* Zoology 101 or 103. *Second semester. Lecture, two hours; laboratory, one period. Three credits. Fee \$2. Richardson.*

346 (58). **PHYSIOLOGY.** Principles of animal physiology, with special reference to the human being. Zoology 101 or 103 and Chemistry 101 and 102 or 242 should precede this course.

*Second semester. Lecture, three hours; laboratory, two periods. Five credits. Fee \$5. Lowrance.*

350 (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.*

352 (52). **GENETICS LABORATORY.** A laboratory course designed to accompany Zoology 350.

*Prerequisite or Parallel:* Zoology 350. *One credit. Fee \$3. Lowrance.*

355 (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.* Richardson.

364 (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 103 and 209, or 346. *Second semester. Lectures, three hours; laboratory, two periods. Four credits. Fee \$3.* Lowrance.

368 (68). **HISTOLOGY AND ORGANOLOGY.** Study of elementary tissues, and the study of the development and structure of vertebrate organs.

*Three lectures. Two credits.* Lowrance.

463 (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 333, 335, 337, and Botany 222. *Second semester. Lecture, two hours; laboratory, one period. Three credits.* Alternates with Zoology 259. Fee \$2. Richardson.

491-492 (91-92). **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.

*Credits to be arranged.* Student is limited to a total of eight credits in these in Zoology 491-92. Fee determined by type of work. Lowrance and Richardson.

549-550 (199). **THESIS COURSE FOR GRADUATES.**

## BUSINESS

(See Economics, Business, and Sociology.)

## CHEMISTRY

Professors SEARS (Chairman of Department), MOOSE, DEMING; Associate Professor WILLIAMS; Mr. MORRIS, Mr. DRUMM, Mr. RAVVE, Miss CAMPBELL.

Requirements for a minor in chemistry: Chemistry 101 (4 credits), 102 (2 credits), 122 (3 credits), 231-232 (6 credits), and 5 additional credits in the department in courses numbered 300 or above.

Requirements for a major in chemistry: Chemistry 101 (4 credits), 102 (2 credits), 122 (3 credits), 231-232 (6 credits), 341-342 (8 credits), 487-488 (1 credit), and 4 additional credits in the department in courses numbered 300 or above.

Requirements for the degree Bachelor of Science in Chemistry: See outline for Course of Study, page 197.

101 (1). GENERAL INORGANIC CHEMISTRY. A lecture and laboratory course dealing with the fundamental principles of chemistry and the properties and uses of the common nonmetallic elements.

*First semester. One lecture, two recitations, two two-hour laboratory periods. Four credits. Fee \$8. Staff.*

102 (2). GENERAL CHEMISTRY OF THE METALS. A lecture course dealing with the properties and uses of the common metals.

*Prerequisite: Chemistry 101. Second semester. Two lectures. Two credits. Staff.*

122 (6). QUALITATIVE ANALYSIS. A lecture and laboratory course dealing with the principles and techniques of the semi-micro method of systematic qualitative analysis.

*Prerequisite: Must be taken concurrently with or following Chemistry 102. Second semester. One lecture and two laboratory periods. Three credits. Fee \$8. Staff.*

124 (6A). QUALITATIVE ANALYSIS. A lecture and laboratory course dealing with the principles and techniques of the macro method of systematic qualitative analysis.

*Prerequisite: Must be taken concurrently with or following Chemistry 102. Second semester. One lecture and one laboratory period. Two credits. Fee \$4. Staff.*

231-232 (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 placed on calculations needed for quantitative determinations.

*Prerequisite: Chemistry 122 or 124. One lecture and two laboratory periods. Three credits each semester. Fee \$8. Williams.*

242 (4). INTRODUCTORY ORGANIC CHEMISTRY. A lecture and laboratory course designed to acquaint students with some of the fundamental principles of carbon chemistry.

*Prerequisite: Must be taken concurrently with or following Chemistry 102. Second semester. Two lectures and one laboratory period. Three credits. Fee \$4. Morris.*

271 (25). PHYSIOLOGICAL CHEMISTRY. A lecture and laboratory course dealing primarily with the compounds of carbon that are essential to physiological processes.

*Prerequisite: Chemistry 242. First semester. Three lectures and two laboratory periods. Five credits. Fee \$8. Morris.*

312 (72). ADVANCED INORGANIC CHEMISTRY. A lecture and laboratory course dealing with some of the more difficult chemical reactions and laboratory techniques in the preparation of inorganic substances.

*Prerequisite: Chemistry 333. Second semester. One lecture and two laboratory periods. Three credits. Graduate credit given with consent of instructor. Fee \$8. Sears.*

333 (71). **ADVANCED ANALYTICAL CHEMISTRY.** A lecture and laboratory course designed to give the students a knowledge of some of the more difficult methods of analysis and a familiarity with instrumentation.

*Prerequisite:* Chemistry 232. *First semester. One lecture and two laboratory periods. Three credits. Fee \$8. Sears.*

341-342 (51-52). **ORGANIC CHEMISTRY.** A lecture and laboratory sequence dealing with the fundamental principles of the chemistry of carbon and carbon compounds.

*Prerequisite:* Chemistry 232. *Two lectures and two laboratory periods. Four credits each semester. Fee \$8. Morris.*

352 (80). **INTRODUCTION TO PHYSICAL CHEMISTRY.** A lecture course designed to illustrate the applications of physical methods to chemical problems. This course is designed for engineering and premedical students who desire an introductory course and chemistry students who feel that they need more preparation for Chemistry 451-452.

*Prerequisite:* Chemistry 232. *Second semester. Two lectures. Two credits. Deming.*

362. **INDUSTRIAL CHEMICAL TECHNOLOGY.** A lecture and recitation course dealing with industrial processes. A cross section of manufacturing processes, flow charts, energy and material balances.

*Prerequisite:* Chemistry 341. *Second semester. Two lectures. Two credits. Moose.*

391 (64). **SPECIAL PROBLEMS.** A laboratory course designed to give the student training in a special field not covered in regularly scheduled courses. To be arranged by consultation with the chairman of the department.

*Prerequisite:* Chemistry 232. *Either semester. Two laboratory periods. Two credits. Moose and Staff.*

415 (75). **THE PERIODIC LAW.** A lecture and seminar course dealing with a critical study of the periodic law and the more important periodic tables. Use is made of recent developments in atomic structure to correlate the properties of the elements.

*Prerequisite:* Three years of college chemistry. *First semester. Three lectures. Three credits. Graduate credit given with consent of instructor. Sears.*

443 (53). **QUALITATIVE ORGANIC ANALYSIS.** A study of the methods available for the detection and identification of organic compounds.

*Prerequisite:* Chemistry 342. *First semester. Two lectures and two laboratory periods. Four credits. Graduate credit given with consent of the instructor. Fee \$8. Moose.*

451-452 (83-84). **PHYSICAL CHEMISTRY.** A lecture and laboratory course based on the application of the laws of physics and the methods of calculus to chemical problems.



*Prerequisites:* Chemistry 232; Physics 152 or 204; Mathematics 232 or 242 or 252. *Three lectures and one laboratory period. Four credits each semester.* Graduate credit given with consent of instructor. Students who have taken Physics 205-206 may omit the laboratory work. Fee \$4. Deming.

461 (94). THE CHEMICAL TECHNOLOGY OF UNIT OPERATIONS. A lecture and recitation course dealing with the application of chemical and physical fundamentals to unit processes. Materials handling, fluid flow, and heat transfer included.

*Prerequisites:* Chemistry 362. *First semester. Three lectures. Three credits.* Moose.

482 (92): HISTORY OF CHEMISTRY. A lecture course on the development of the science of chemistry.

*Prerequisite:* Three years of college chemistry. *Second semester. Two lectures. Two credits.* Graduate credit given with consent of instructor. Deming.

487-488 (95-96). CURRENT CHEMICAL LITERATURE. A seminar course designed to help the student become familiar with the various sources of chemical information and afford him practice in summarizing such information for discussion.

*Prerequisite:* Two years of college chemistry. *One-half credit each semester.* May be repeated for maximum of two credits. Graduate credit given with consent of instructor. Staff.

497-498 (99-100). THESIS COURSE FOR UNDERGRADUATES. A laboratory and library course based on a special topic chosen from inorganic, analytical, organic or physical chemistry. To be arranged by consultation with the instructors.

*Prerequisite:* Three years of college chemistry. *Two credits each semester.* Fee \$8. Moose and Staff.

514 (74). CHEMISTRY OF THE RARER METALS. A laboratory course designed to show the relationship between the rarer and the common elements in a systematic qualitative analysis.

*Prerequisite:* Graduate standing. *Second semester. Two laboratory periods. Two credits.* (Open to qualified seniors with the consent of the instructor.) Fee \$8. Sears.

544 (54). ADVANCED ORGANIC CHEMISTRY. A lecture course of advanced topics in organic chemistry. Modern theories on structure and reaction mechanisms. Special assignments.

*Prerequisite:* Chemistry 342. *Second semester. Two lectures. Two credits.* (Open to seniors with consent of instructor.) Moose.

546 (56). ADVANCED ORGANIC CHEMISTRY. A laboratory course designed to give the student training in the methods of quantitative organic analysis. Textbook and methods taken from recent literature are employed.

*Prerequisite:* Chemistry 443. *Second semester. Two laboratory periods.* Fee \$8. (Open to seniors with consent of the instructor.) Morris.

553 (85). **ELECTROCHEMISTRY.** A lecture and laboratory course based upon the theory and use of electrochemical cells.

*Prerequisite:* Chemistry 452. *First semester. One lecture and two laboratory periods. Three credits. Fee \$8. Deming.*

554 (86). **THE PHASE RULE.** A lecture and laboratory course based upon the theory and application of Gibb's Phase Rule.

*Prerequisite:* Chemistry 452. *Second semester. One lecture and two laboratory periods. Three credits. Fee \$8. Deming.*

555-556 (101-102). **ADVANCED PHYSICAL CHEMISTRY.** A lecture course dealing with the thermodynamical functions and their partial derivatives.

*Prerequisite:* Chemistry 452. *Two lectures. Two credits. Deming.*

599 (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.

*Prerequisite:* Four years of chemistry and graduation from an approved college. *Either semester. Maximum of six credits. Fee \$4 per credit hour, according to work. Moose and Staff.*

## CIVIL ENGINEERING

Professors BLODGETT (Chairman of Department), BIXBY; Assistant Professor POOLMAN; Mr. ARNOLD.

241 (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 152. *Two classroom periods and one field period. Three credits. Laboratory fee \$3.*

242 (42). **PLANE SURVEYING.** A continuation of Civil Engineering 241 leading to a detailed study of topographical surveying methods, field astronomy, and other problems usually encountered in civil engineering practice.

*Prerequisite:* Civil Engineering 241. *Three classroom periods and two field or drawing room periods. Five credits. Laboratory fee \$5.*

245 (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 152. *One classroom period and one drawing room period. Two credits.*

246 (46). **CONSTRUCTION MATERIALS.** A detailed study of the source, manufacture, and use of the materials ordinarily used in construction and machines.

*Prerequisite:* Sophomore standing in engineering. *Two classroom periods. Two credits.*

361 (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 367.

*Prerequisite:* Mathematics 252. *Three classroom periods. Three credits.*

363 (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 242. *Two classroom periods and two field or drawing room periods. Four credits. Laboratory fee \$5.*

364 (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.*

366 (66). ROADS AND PAVEMENTS. 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 242. *Three classroom periods. Three credits.*

367 (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 252. *Three classroom periods and two laboratory or computation periods. Five credits. Laboratory fee \$5.*

369 (69). NONMETALLIC TESTING LABORATORY. A laboratory course affording a study of the physical properties of the non-metallic materials used in construction, including soils, hydraulic cements, concrete, stone, brick, tile, timber, and bituminous materials.

*Prerequisite:* Mathematics 252. *One laboratory period. One credit. Laboratory fee \$4.*

372 (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 341. *Civil Engineering students enroll in Civil Engineering 376. Three classroom periods. Three credits.*

374 (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 376.

*Prerequisites:* Mathematics 341. *One laboratory period. One credit. Laboratory fee \$4.*

376 (76). MECHANICS OF MATERIALS. A more extensive course than Civil Engineering 372.

*Prerequisite:* Mathematics 341. *Three classroom periods and one laboratory or computation period. Four credits.*

378 (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 341. *Two classroom periods and two drawing room periods. Four credits.*

481 (81). FRAMED STRUCTURES. A continuation of Civil Engineering 378 and an extension to include deflections of simple frames, the analysis of statically indeterminate trusses, and elementary structural design.

*Prerequisite:* Civil Engineering 378. *Two classroom periods and two drawing room periods. Four credits.*

484 (84). STRUCTURAL DESIGN. Comprehensive and total problems in the structural design of typical engineering structures.

*Prerequisite:* Civil Engineering 481. *One classroom period and three drawing room periods. Four credits.*

485 (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 376. *Three classroom periods. Three credits.*

486 (86). REINFORCED CONCRETE DESIGN. A continuation of Civil Engineering 485 with emphasis upon the total design of typical engineering structures wherein the use of reinforced concrete predominates.

*Prerequisite:* Civil Engineering 485. *One classroom period and two drawing room periods. Three credits.*

487 (87). HIGHWAY ENGINEERING. A continued and more detailed study of topics introduced in Civil Engineering 366, with supplementary information abstracted from current Road Builders publications and periodicals.

*Prerequisite:* Civil Engineering 363, 366. *Three classroom periods. Three credits.*

488 (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 engineering. *Two classroom periods. Two credits.*

489 (89). SANITARY ENGINEERING. The collection, treatment, and distribution of potable water supplies. The Public Health aspects are contemplated.

*Prerequisite:* Civil Engineering 364, 367. *Three classroom periods. Three credits.*

490 (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 489. *Three classroom periods. Three credits.*

491 (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.*

492 (92). FOUNDATIONS. A study of the principles and practices of the design and construction of foundations for engineering structures.

*Prerequisite:* Civil Engineering 378, 485. *Two classroom periods. Two credits.*

494 (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 364, 367, 481, 485. *Three classroom periods. Three credits.*

510 (110). HYDRAULICS OF OPEN CHANNELS. Elective. An advanced study of the flow of water through open channels.

*Prerequisite:* Civil Engineering 367. *Two classroom periods. Two credits.*

511 (111). HYDRAULIC MACHINERY. Elective. The theory, construction, operation, and characteristics of hydraulic turbines, pumps, and other hydraulic machinery.

*Prerequisite:* Civil Engineering 367. *Two classroom periods. Two credits.*

514 (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 367. *Credits to be arranged.*

520 (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 484, 486. *Three credits.*

521 (121). **ADVANCED STRUCTURAL DESIGN.** Elective. A continuation of Civil Engineering 520 affording the superior student an opportunity for specialized study in the field of structural design and stress analysis.

*Prerequisite:* Civil Engineering 520. *Credits to be arranged.*

524-525 (124-125). **SPECIAL ENGINEERING PROBLEMS.** Elective. This course makes catalogue 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.

599 (200). **GRADUATE RESEARCH OR THESIS.** This course makes catalogue 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. BRITTAN, Miss POE, Mr. SKINNER, Mr. BAGLEY, Mr. SCHWARTZ, Mr. WILSON.

Requirements for the degree Bachelor of Science in Business Administration: See course of study outlined on page 197.

Requirements for a minor in Economics: Economics 201-202 (6 credits); 12 additional credits in economics or business courses, not less than 6 of which shall be in courses numbered 300 or above.

Requirements for a major in Economics: Economics 201-202 (6 credits), Economics 357 (3 credits), 492 (3 credits); Business Administration 243-244 (6 credits), and 9 additional credits in economics or business courses, which shall be in courses numbered 300 or above.

Requirements for a minor in Sociology: Economics 201-202 (6 credits), Sociology 201 (3 credits), and 9 additional credits in Sociology, not less than 6 of which shall be in courses numbered 300 or above.

Requirements for a major in Sociology: Economics 201-202 (6 credits), Sociology 201 (3 credits), Sociology 371 and 490 (6 credits), and 12 additional credits which shall be in sociology courses numbered 300 or above.

The following courses are recommended but not required for minors and majors in Economics: Philosophy 107-108, Psychology 201, 361, 382, 391, Mathematics 210-220, French and German.

Requirements for a major in Commercial Education (for students qualifying for the high school teacher's certificate in commercial subjects), Economics 201-202 (6 credits), Business Administration 243-244 (6 credits), Business Administration 247 (3 credits), Business Administration 351, Business Administration 353 (2 credits), and at least seven additional credits selected from the following: Economics 353, 358, and Business Administration 355-356, 368.

## Economics

107 (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. Staff.*

110 (10). ECONOMIC HISTORY OF THE UNITED STATES. Introductory historical treatment of the economic development of America.

*Second semester. Two credits. Open to freshmen. Staff.*

201 (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. Staff.*

202 (2). PRINCIPLES OF ECONOMICS. A continuation of economics 201.

*Either semester. Three credits. Staff.*

203 (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. Inwood.*

218 (18). CONSUMER ECONOMICS. A study of the consumer from the standpoint of family buying and financial management, marketing and income distribution.

*Second semester. Three credits. Inwood.*

351 (51). PUBLIC FINANCE. Public expenditures and sources of public revenue.

*Prerequisite: Economics 201-202. First semester. Three credits. Brittan.*

353 (53). MONEY AND BANKING.

*Prerequisite: Economics 201-202. First semester. Three credits. Plumley.*

354 (54). PUBLIC UTILITIES. The development, organization, characteristics and legal status of public service enterprises.

*Prerequisite: Economics 201-202. Second semester. Three credits. Brittan.*

356 (56). INSURANCE.

*Prerequisite: Economics 201-202, Business 241. Second semester. Two credits. (Offered in even-numbered years.) Plumley.*

357 (92). ADVANCED ECONOMIC THEORY.

*Prerequisite: Economics 201-202. First semester. Three credits. Brittan.*

358 (58). INTERNATIONAL TRADE. Theory of international trade. Tariffs and tariff history.

*Prerequisite: Economics 201-202. Second semester. Two credits. Inwood.*

361 (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. Plumley.*

362 (62). TRANSPORTATION. The growth and development of transportation in the United States with emphasis on bases of rate structures and regulation.

*Prerequisite: Economics 201-202, Business 241. Second semester. Two credits. (Offered in odd-numbered years.) Plumley.*

363 (63). ECONOMIC HISTORY OF EUROPE. The economic background of national and international development during ancient, medieval and modern times.

*First semester. Two credits. Inwood.*

364 (64). LABOR ECONOMICS. A study of the wage earner, his compensation and problems of insecurity together with industrial and governmental solutions.

*Prerequisite: Economics 201-202. Second semester. Three credits. Plumley.*

373 (73). BUSINESS CYCLES.

*Prerequisite: Economics 201-202. First semester. Three credits. Plumley.*

492 (91). HISTORY OF ECONOMIC THEORY.

*Prerequisite: Economics 201-202. Second semester. Three credits. Brittan.*

### *Business*

111-112 (11-12). STENOGRAPHY. Gregg Shorthand. Students must also take Business 221-222, unless they have had equivalent training. Students who have had one year of high school shorthand may not take this course for credit.

*Two credits each semester.*

215-216 (15-16). ADVANCED STENOGRAPHY. Speed and accuracy development in Gregg Shorthand. Study of stenographic duties and techniques essential for business employment.

*Prerequisite: Business 111-112, or one year of high school shorthand. Two credits each semester.*

221-222 (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 221 for credit. Credit allowed only upon attainment of prescribed production requirements.

*Two credits each semester. Fee \$5 per semester.*

241 (41). FUNDAMENTALS OF BUSINESS ORGANIZATION. An introductory survey of problems and methods of business administration.

*Prerequisite: Sophomore standing. Either semester. Three credits. Inwood.*



243-244 (43-44). **ELEMENTARY ACCOUNTING.** Accounting theory and practice. Problems and practice sets.

*Prerequisite:* Sophomore standing. *Two lectures and one laboratory period per week. Three credits each semester.* Chadwick.

247 (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.* Skinner.

351 (51). **ADMINISTRATION OF BUSINESS.** Various types of business organization and the handling of administrative problems arising therein.

*For commercial education majors only. Either semester. Three credits.* Inwood.

353 (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.* Inwood. (Offered in even-numbered years.)

355-356 (55-56). **ADVANCED ACCOUNTING.** Advanced theory of accounts and its application. Selected problems and readings.

*Prerequisite:* Business 243-244. *Three credits each semester.* Chadwick.

363 (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.* Inwood. (Offered in odd-numbered years.)

365 (65). **ADMINISTRATION OF FINANCE.** Principles and problems of financing business enterprises.

*Prerequisite:* Business 241. *First semester. Three credits.* Plumley.

366 (66). **INDUSTRIAL MANAGEMENT.** Internal organization and control of different forms of business enterprise.

*Prerequisite:* Business 241. *Second semester. Three credits.* Inwood.

367 (67). **PERSONNEL MANAGEMENT.** Selection, placement, and efficiency of personnel. Employer-employee relationships.

*Prerequisite:* Business 241. *First semester. Two credits.* Brittan.

368 (68). **MARKETING.** A study of distribution methods and costs together with advertising and sales promotion methods.

*Prerequisite:* Economics 201-202. *Second semester. Three credits.* Inwood.

370 (70). **INVESTMENTS.** Selection, appraisal, and shifting of capital investments.

*Prerequisite:* Business 241. *Second semester. Two credits.* Plumley.

371 (71). **MERCHANDISING.** Operation of retail stores treating specifically store organization, lay-out, and principles of salesmanship and customer service.

*First semester. Two credits.*

372 (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 381 recommended.)

*Second semester. Two credits.*

374 (74). **ADVANCED BUSINESS LAW.** An advanced course in business law for those who are specializing in a preparation for business.

*Prerequisite:* Business 247. *Second semester. Three credits. Skinner.*

385-386 (85). **COST ACCOUNTING.** A comprehensive study of all elements of manufacturing cost accounting.

*Prerequisite:* Business 243-244. *Three credits each semester. Palmer.*

388 (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 243-244. *Second semester. Two credits. Palmer.*

492 (92). **AUDITING.** The principles and practice of auditing. Practice problems.

*Prerequisite:* Business 243-244. *Second semester. Three credits. Palmer.*

### *Sociology*

102 (2). **SOCIAL PROBLEMS.** The major problems of modern social life and their remedies.

*Second semester. Three credits. Brittan.*

201 (1). **PRINCIPLES OF SOCIOLOGY.** The fundamentals of social processes and evolution.

*Prerequisite:* Sophomore standing. *First semester. Three credits. Webster.*

350 (50). **RURAL SOCIOLOGY.** Rural life and problems with special reference to Nevada conditions.

*Second semester. Two credits. Webster.*

357 (57). **CULTURAL ANTHROPOLOGY.** Primitive cultures as a basis for modern social organization.

*First semester. Two credits. Webster.*

370 (70). SOCIAL CONTROL. The social processes providing control of behavior.

*Second semester. Three credits. Webster.*

371 (71). SOCIAL ORGANIZATION. The structure, forms, functions and development of major social groups and institutions.

*First semester. Three credits. Webster.*

379 (79). RACE PROBLEMS. The social significance of race and racial minorities.

*First semester. Two credits. Webster.*

380 (80). THE FAMILY. Forms and functions of the family as a social institution. Emphasis on present trends.

*Second semester. Two credits. Webster.*

381 (81). POVERTY AND DEPENDENCY. Causes of economic inefficiency. Methods used in relief.

*Prerequisite: Economics 201-202. First semester. Two credits. (Offered in odd-numbered years.) Webster.*

383 (83). POPULATION. The social and economic significance of numbers and quality of population. Migration.

*First semester. Two credits. (Offered in even-numbered years.) Webster.*

384 (84). SOCIAL SECURITY. Theory and development of modern provisions for economic security. Emphasis upon old age and unemployment in the United States.

*Prerequisite: Economics 201-202. Second semester. Two credits. (Offered in odd-numbered years.) Webster.*

386 (86). METHODS IN SOCIAL WORK. Principles and methods in applied sociology.

*Prerequisite: Sociology 102 and 201. Second semester. Two credits. Bagley.*

490 (90). ADVANCED SOCIAL THEORY. Emphasis upon modern schools of social thought.

*Prerequisite: Sociology 201. Second semester. Three credits. Webster.*

## EDUCATION

Professors TRANER (Chairman of Department), BROWN; Associate Professor RUEBSAM; Assistant Professor PUFFINBARGER (on leave); Mr. DOWLER, Miss HUBER, Mr. JENSEN, 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 300 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 300 or above.

### *Kindergarten-Primary Education*

117 (17). KINDERGARTEN-PRIMARY EDUCATION. Kindergarten-primary education as a unified experience, emphasizing the history, theory and curriculum.

*First semester. Three credits. Ruebsam.*

120 (28-29). SUPERVISED TEACHING IN KINDERGARTEN-PRIMARY GRADES. Opportunity for teaching open to freshmen and sophomores desiring to qualify for the elementary teaching certificate.

*Prerequisite:* Students enrolled must have had or be taking Education 134. *Either semester. Five credits. Ruebsam.*

125 (25A). OBSERVATION OF TEACHING. Observation and discussion of specific classroom work in the kindergarten-primary grades.

*First semester. One credit. Ruebsam.*

134 (34). THE TEACHING OF LANGUAGE ARTS IN THE PRIMARY GRADES. Includes beginning reading, activities, seat work, picture studies, stories, dramatization.

*Second semester. Three credits. Ruebsam.*

141 (41). CONSTRUCTIVE ACTIVITIES FOR KINDERGARTEN-PRIMARY GRADES. A consideration of the materials by means of which the child organizes and expresses his ideas.

*First semester. Two credits. (Given in alternate years beginning in 1947.) Fee \$3. Ruebsam.*

314 (54). AUXILIARY SUBJECTS IN THE KINDERGARTEN-PRIMARY CURRICULUM. The contribution of arts and crafts, music, games and rhythms, to the education of the kindergarten and primary child.

*Second semester. Two credits. (Given in alternate years beginning in 1948.) Ruebsam.*

315 (55). CONTENT MATERIAL IN KINDERGARTEN-PRIMARY GRADES. Study of objectives, methods, and desirable experiences in the fields of arithmetic and social science.

*Second semester. Two or three credits. (Given in alternate years beginning in 1947.) Ruebsam.*

320 (28-29). SUPERVISED TEACHING IN KINDERGARTEN-PRIMARY GRADES. Opportunity for teaching open to juniors and seniors desiring to qualify for the elementary teaching certificate.

*Prerequisite:* Students enrolled must have had or be taking Education 134. *Either semester. Five credits. Ruebsam.*

332 (19). LITERATURE IN THE KINDERGARTEN-PRIMARY GRADES. Children's stories and poetry as a background to literature, with

practical guidance in selection and teaching; dramatizations, and simple puppetry.

*Second semester. Two credits. Ruebsam.*

363 (53). EARLY GROWTH AND DEVELOPMENT OF THE SCHOOL CHILD. The factors affecting the physical, motor, intellectual, social, and emotional development of the child through the primary grades. Primarily for teachers in service.

*First semester. Two credits. (Given in alternate years beginning in 1948.) Ruebsam.*

#### *General Elementary*

111 (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.*

121 (43). SUPERVISED TEACHING IN THE INTERMEDIATE GRADES. Opportunity for teaching, open to freshmen and sophomores desiring to qualify for the elementary teaching certificate.

*Prerequisite:* Students enrolled must have had or be taking methods courses. *Either semester. Five credits.*

130 (30). TEACHING OF THE SOCIAL STUDIES. Emphasis upon such topics as directed study, the problem-discussion method, the unit and project method, and source material.

*Second semester. Two credits. Brown.*

131 (31). THE TEACHING OF ARITHMETIC. Emphasis on diagnostic and remedial treatment of pupil difficulties; content, pupil readiness to learn arithmetic, and the principal objectives of arithmetic.

*First semester. Two credits. Brown.*

133 (3-4). 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 \$4. Joslin.*

135 (35). THE TEACHING OF LANGUAGE. A study of the principles, materials, and methods involved in the teaching of the language subjects in the intermediate and upper grades.

*Second semester. Two credits. Traner.*

136 (36). THE TEACHING OF READING. The improvement of reading ability in the intermediate and grammar grades, the diagnosis of reading difficulties and remedial procedures, and the developing of interest in broad reading for comprehension and pleasure.

*First semester. Two credits.*

137 (37). THE TEACHING OF GEOGRAPHY. Modern trends in geography in the elementary school, the selection and organization of subject matter with specific reference to the State-adopted texts.

*First semester. Two credits.*

145 (45-45A). AUDIO-VISUAL AIDS IN ELEMENTARY SCHOOLS. The purpose of this course is to consider the various uses of audio-visual aids available for elementary schools. Study and evaluation of material and equipment. Selection of material for grade levels.

*First semester. Three credits. Jensen.*

149 (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. Music materials, rote 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. Tate.*

181-182 (49-49A). GUIDANCE AND PUPIL ADJUSTMENT IN THE ELEMENTARY SCHOOL. A study of the fundamental principles and methods of guidance. Emphasis on basic growth concepts, case history, tests, interviews, and questionnaires to discover the mental, physical, social, and emotional needs of elementary school children.

*Each semester. Three credits. Jensen.*

186 (46). NONINSTRUCTIONAL PROBLEMS OF THE CLASSROOM TEACHER. Extra-class responsibilities and requirements of the elementary teacher such as reports, records, daily program, types of school furniture, equipment and supplies, school lunches, and community relations.

*Second semester. Two credits.*

190 (24). STATE SCHOOL ORGANIZATION AND SCHOOL LAW. The principles of State school organization and school law as revealed by a study of the school code of the State; meets all certification requirements for school law.

*Either semester. Two credits. Brown.*

321 (43-44). SUPERVISED TEACHING IN THE INTERMEDIATE GRADES. Opportunity for teaching, open to juniors and seniors desiring to qualify for the elementary teaching certificate.

*Prerequisite:* Students enrolled must have had or be taking methods courses. *Either semester. Five credits.*

323 (73-74). SUPERVISED TEACHING IN SEVENTH AND EIGHTH GRADES. This course provides opportunity for teaching specific

subjects in the seventh and eighth grades. Credits apply to elementary certificates.

*Either semester. Four credits. Brown.*

357 (57). HISTORY OF ELEMENTARY EDUCATION. The evolution of elementary school practice and theory from the time of the early Greeks and Romans to the present.

*First semester. Two credits. (Given in alternate years beginning in 1947.) Brown.*

388 (68). EDUCATION TESTS AND MEASUREMENTS. The most serviceable tests and scales for measuring the elementary subjects; the course will involve giving and scoring of the tests.

*First semester. Two credits. (Given in alternate years beginning in 1948.) Fee \$1.50. Brown.*

### *Secondary Education*

310 (60). PROBLEMS OF SECONDARY 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.

*First semester. Two credits. Traner.*

311 (95). SUPERVISION AND INSTRUCTION IN JUNIOR HIGH SCHOOL GRADES. A study of adolescents; the adjustment of materials and methods to the individual child that maximum growth may ensue.

*Second semester. Two credits. (Given in alternate years beginning in 1948.) Brown.*

317 (93). SCHOOL AND COMMUNITY RELATIONS. The interrelations and cooperation of the school, the family, and the community in the educational development of the child.

*Second semester. Two credits.*

330 (66E). TEACHING OF HIGH SCHOOL SOCIAL STUDIES. Treatment of subject matter and materials of high school social studies with particular reference to history and American government.

*Second semester. Two credits. Brown.*

331 (66C). TEACHING OF HIGH SCHOOL MATHEMATICS. Selection and organization of subject matter and procedures in teaching.

*First semester. Two credits. (Given in alternate years beginning in 1948.) Wood.*

335 (66b). TEACHING HIGH SCHOOL ENGLISH. Acceptable material and methods in oral and written composition and in literature.

*First semester. Two credits.*

338 (66d). TEACHING OF HIGH SCHOOL SCIENCE. A study of

the most suitable subject matter for the various sciences and of methods of teaching.

*Second semester. Two credits.*

339 (66f). 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. *First semester.* (Given in alternate years beginning in 1947). *Two credits.* Klaus.

340 (66g). THE TEACHING OF BOOKKEEPING, GENERAL BUSINESS TRAINING, AND ALLIED SUBJECTS. The curriculum, methods of teaching, objectives, standards, grading, etc., in the teaching of bookkeeping, general clerical practice, consumer education, etc.

*First semester. Two credits.* (Given in alternate years beginning in 1948.) Klaus.

341 (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 each week. Two credits.* Scranton.

344 (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.

*Either semester. Three credits.*

345 (45). AUDIO-VISUAL AIDS IN SECONDARY SCHOOLS. A study of the function of audio-visual aids in education, showing advantages, limitations, and practical uses of various types of audio-visual aids. Critical appraisal of films, slides, film strips, and transcriptions, operation of equipment and selection of material.

*Second semester. Three credits.* Jensen.

347 (64b). 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.

*Prerequisite:* Physical Education 164. (Identical with Physical Education 364 for Women.) *Two lectures. Two credits.*

348 (Journalism 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.

*Two credits.* (Alternate years.) Mergen.

349 (65). HIGH SCHOOL MUSIC. Practical consideration of problems involved in various phases of high school music. Assembly singing, conduction, choral groups, instrumental groups, etc. Applicant must be a junior or senior with a minor in music or its equivalent. Active participation in band, orchestra, or chorus required.

*Second semester.* (Same as Music 349.) *Two credits.* Tate.

354-355 (94 a-b). COMPARATIVE EDUCATION. A comparative study of national ideologies, philosophies, and systems of education in North and South America, Europe, and Japan.

*Two credits.* *Each semester.* Jensen.

358 (58). HISTORY OF SECONDARY EDUCATION. A study of educational trends from the time of the early Greeks and Romans to the present.

*Second semester.* (Given in alternate years beginning in 1947.) *Two credits.* Brown.

381-382 (61-61B). GUIDANCE AND COUNSELING IN SECONDARY SCHOOLS. A study of the history and meaning of guidance and counseling, clinical and group guidance, principles, procedures, and techniques in counseling, and the place of the high school teacher in the guidance program. This course will also include a study of problems in vocational guidance, interests and aptitudes, placement, and the cumulative record.

*Each semester.* *Three credits.* Jensen.

420 (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 have had or be taking methods courses.

*Either semester.* *Two to six credits.* Brown, Dowler.

421. SUPERVISED TEACHING FOR TEACHERS-IN-SERVICE. Preparation of lesson plans, observation and evaluation of teacher's presentation, readings and discussion on curriculum and method.

*Either semester.* *Three credits.* Staff.

445 (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.

446 (86). PROBLEMS IN AGRICULTURAL EDUCATION. 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.*

447 (87). METHODS IN TEACHING VOCATIONAL AGRICULTURE. 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.

*Second semester. Three credits. Dowler.*

448 (88). PROBLEMS IN HOME MAKING EDUCATION. Curricula, methods of teaching, and making home contacts. 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.*

449 (89). METHODS IN TEACHING HOME MAKING. Analysis of objectives, content, and experience 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.

*Second semester. Three credits. Huber.*

471 (71). GENERAL METHODS OF HIGH SCHOOL INSTRUCTION. 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. To be taken in the senior year.

*First semester. Three credits. Brown.*

482 (82). NONINSTRUCTIONAL RESPONSIBILITIES OF THE HIGH SCHOOL TEACHER. Growth and advancement in the profession, ethical responsibilities, satisfactory administration and professional relations.

*For seniors only. Second semester. Two credits. Trauer.*

*Educational Psychology*

266 (6). **ELEMENTARY EDUCATIONAL PSYCHOLOGY.** A consideration of the applications of psychology to educational problems. Identical with Psychology 221.

*Prerequisite:* Psychology 201. *Second semester. Three credits.* Irwin.

363 (53). **EARLY GROWTH AND DEVELOPMENT OF THE SCHOOL CHILD.** The factors affecting the physical, motor, intellectual, social, and emotional development of the child through the primary grades of school. Primarily for teachers in service.

*First semester.* (Given in alternate years beginning in 1948). *Two credits.* Ruebsam.

365 (70). **THE EDUCATION OF SUPERIOR CHILDREN.** 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.

367 (67). **PSYCHOLOGY OF THE ELEMENTARY SCHOOL SUBJECTS.** The scientific experiments and investigations relating to learning and teaching of the elementary branches; psychological problems of immediate concern to the teacher in the classroom.

*Second semester. Two credits.* Puffinbarger.

368 (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.

369 (69). **THE EDUCATION OF RETARDED CHILDREN.** 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 of such children.

*First semester. Two credits.* Puffinbarger.

*Graduate Courses*

501 (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.

502 (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, original research, and a written report of the study.

Intended primarily for candidates for the Master's degree. *Two credits.* Members of the Staff.

## ELECTRICAL ENGINEERING

Professors S. G. PALMER, SANFORD (Chairman of Department), Mr. EARL, and Mr. FAIR.

231-232-233-234 (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.

323 (23-24). ELEMENTS OF ELECTRICAL ENGINEERING. An elementary course in electric circuits, machinery, electronics, and measurements. Includes lectures and demonstrations. Designed primarily for students not taking electrical engineering, the course will be adapted to needs of the students.

*Both semesters. Two credits.*

351 (51). DIRECT CURRENT MACHINERY. A course for electrical and mechanical engineering students on the theory, characteristics, construction, and operation of direct current machines and circuits.

*Prerequisites:* Physics 204, mathematics 252. *First semester. Three credits.*

352 (52). ALTERNATING CURRENT MACHINERY. A continuation of Electrical Engineering 351 covering a similar study of alternating current machines and circuits.

*Prerequisite:* Electrical Engineering 351. *Second semester. Three credits.*

353 (53). DIRECT CURRENT MACHINERY LABORATORY. This course is normally accompanied or preceded by Electrical Engineering 351 and has same prerequisites.

*First semester. Two credits. Fee \$5.*

354 (54). ALTERNATING CURRENT MACHINERY LABORATORY. This course is normally accompanied or preceded by Electrical Engineering 352.

*Second semester. Two credits. Fee \$5.*

355 (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 204. *First semester. Two credits.*

356 (56). ALTERNATING CURRENT CIRCUITS. A continuation of Electrical Engineering 355, 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 355, Mathematics 351. *Second semester. Two credits.*

367 (67). ELECTRICAL ILLUMINATION. A study of the principles and practice of electrical illumination.

*Prerequisite:* College physics. *First semester. Two credits.*

368 (57). INTRODUCTION TO ELECTRONICS. Theory and application of vacuum and gas-filled tubes and circuits.

*Prerequisite:* Physics 204. *Second semester. Lectures and laboratory. Three credits. Fee \$5.*

375 (75). ELECTRICITY IN MINING. The study of the theory and application of electrical equipment commonly used in mining and associated fields.

*Second semester. Lectures and laboratory. Three credits. Fee \$5.*

391-392-393-394. 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.

*One or two credits. A fee of \$5 per credit may be required.*

461 (61). ADVANCED ALTERNATING CURRENT MACHINERY. A continuation of Electrical Engineering 352.

*Prerequisite:* Electrical Engineering 352. *First semester. Three credits.*

462 (62). ELECTRICAL DESIGN. Study of the fundamental principles underlying the design of electrical equipment. Lectures and computations.

*Prerequisite:* Electrical Engineering 461. *Second semester. Three credits.*

463 (63). ADVANCED ALTERNATING CURRENT LABORATORY. A continuation of Electrical Engineering 353 and 354, normally accompanied by Electrical Engineering 461.

*First semester. Three credits. Fee \$5.*

464 (64). ADVANCED ALTERNATING CURRENT LABORATORY. A continuation of Electrical Engineering 463.

*Second semester. Three credits. Fee \$5.*

466 (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. A discussion of symmetrical components and stability is included.

*Prerequisite:* Electrical Engineering 461. *Second semester. Three credits.*

469 (58). INDUSTRIAL ELECTRONICS. A study of the principles of electronics as applied to such industrial processes as

rectification, weldings, high-frequency heating, X-rays, and control.

*Prerequisites:* Electrical Engineering 355, Electrical Engineering 368. *Second semester. Lectures and laboratory. Two credits. Fee \$5.*

481 (81-83). **ADVANCED ELECTRONICS.** The theory and application of electron tubes and circuits used as amplifiers, oscillators, modulators, and detectors. A discussion of telephone and telegraph communication, microphones, loudspeakers, and public address systems is included.

*Prerequisites:* Electrical Engineering 356 and Electrical Engineering 368. *First semester. Lectures and laboratory. Six credits. Fee \$5.*

482 (82-84). **RADIO COMMUNICATION AND MICROWAVES.** The principles of radio communication and other high frequency systems including a complete analysis of the generation, transmission, reception, detection, and measurement of high frequencies and microwaves. A discussion of radar and television is included.

*Prerequisite:* Electrical Engineering 481. *Second semester. Lectures and laboratory. Six credits. Fee \$5.*

487-488. **SEMINAR.** Discussion of technical articles appearing in current periodicals.

*One credit.*

495-496. **THESIS.** The subject and its scope must have the approval of the instructor.

*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 Professor GORRELL (Chairman of Department); Mrs. BROWN, Mr. BUTTERWORTH (on leave), Mr. EDWARDS, Mr. HALL, Mrs. HUME, Mrs. MAYA MILLER, Mr. MILTON MILLER, Miss PRICE, Mr. SEMENZA, Mrs. SPENCER, Mrs. SULLIVAN, Miss SWAN, Mr. VINOCOUR, Mrs. WILKIE, Mrs. WINSTON.

### *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 five approved options; many students are able to fill the requirements for more than one option. In general, upper-division courses suitable for fulfilling major requirements have numbers from 401 to 499. For a major, the requirements in these options are as follows:

1. **LIBERAL ARTS**—English 101-102 (6 credits), English 281 and 291 (6 credits), English 465, English 451, English 493 (9 credits), and at least two courses selected from the following: English 441, English 475, English 481, English 471, English 461, English 485 (6 credits). If so many as four courses are elected from this last group, the requirement of English 493 may be waived.

2. HIGH SCHOOL TEACHING—English 101-102 (6 credits), English 281 and 291 (6 credits), English 441, English 465, English 451, and English 493 (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 387. Students who have difficulty with grammar should elect English 385.

3. SPEECH—English 101-102 (6 credits), English 111-112 (4 credits), English 441 and English 465 (6 credits), and 11 credits in speech selected with the consent of the department from courses numbered 300 or above.

4. LITERARY WRITING—English 101-102 (6 credits), English 281 and 291 (6 credits), English 465, 337, 485, 451 (12 credits), and English 305-306, 405-406 (2-8 credits). The student should note that admission to this option presumes admission to English 305-306, with the prerequisites for that course.

5. PRE-LEGAL STUDY—English 101-102 (6 credits), English 111-112 or English 217-218 (4 credits), English 201 (2 credits), English 281 (3 credits), and 13 credits in courses numbered above 300, of which at least 6 credits should be selected from English 315-316, English 317-318, English 415-416, and English 419-420, and 6 credits should be selected from English 441, English 465, English 337, and English 485.

For a minor in English the requirements are as follows: For options 1 and 2, English 101-102 (6 credits), English 281 and 291 (6 credits), and two courses numbered above 300 and designated as acceptable for a major (6 credits); for option 3, English 101-102, English 111-112 (4 credits), and 8 credits chosen from courses numbered above 300 and approved as appropriate for the individual's interest; for option 4, English 101-102 (6 credits), English 281 and 291 (6 credits), and 6 credits in courses numbered above 300, including English 305-306; for option 5, English 101-102 (6 credits), English 111 or 217 (2 credits), English 281 (3 credits), and 7 credits in courses numbered above 300 and approved by the department.

NOTE—When circumstances warrant, the student may be allowed to substitute for English 111-112 other courses in speech of equal credit numbered above 300. When the first semester of a course in literature numbered above 300 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.*

101-102 (1-2). COMPOSITION AND RHETORIC. The study of English as a means of self-expression, with special attention to the writing of exposition.

*Three credits each semester. Staff.*

NOTE—At the recommendation of the department, students may be allowed to substitute for either English 101 or 102, or both, certain prescribed courses within the department numbered to 300, 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 102 will be required to register for English 102 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 chairman of the department thinks advisable.

131-132 (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.

*Two credits each semester. Staff.*

135. INTRODUCTION TO SCIENTIFIC LITERATURE. Reading and study of writing on scientific subject from ancient times to the present.

*Three credits. Staff.*

141. INTRODUCTION TO THE SHORT STORY. A study of significant short stories and of the short story as a form of literature.

*Two credits. Staff.*

145. THE MODERN AMERICAN NOVEL. A study of the American novel with stress on contemporary writers.

*Two credits. Staff.*

171-172 (40-40A). SHAKESPEARE FOR PLEASURE. Shakespeare's principal plays read for their social interest and their literary excellence. Not intended for majors in English.

*Two credits each semester. Staff.*

201-202 (3-4). ADVANCED COMPOSITION. Extensive practice in various types of writing based upon the reading and discussion of contemporary prose.

*Two credits each semester. Staff.*

231-232 (33-34). GREAT BOOKS. Masterpieces from many ages and from all the great literatures read in English for recreation and for general culture.

*Three credits each semester. Staff.*

247-248 (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.

*Three credits each semester. Staff.*

253-254 (23-24). THE DRAMA OF TODAY. The reading of a variety of modern plays as an introduction to drama.

*Two credits each semester. Staff.*

261. INTRODUCTION TO POETRY. A study of selected poems for the purpose of increasing ability to understand, appreciate, and evaluate poetry.

*Three credits. Staff.*



267. INTRODUCTION TO THE ESSAY. A study of important English and American essayists and of the essay as a form of literature.

*Two credits.* Staff.

281 (44). INTRODUCTION TO LANGUAGE. A study of the nature of language with a sketch of the growth of the American language.

*Three credits.* Laird.

291 (45). INTRODUCTION TO LITERARY STUDY. A critical examination of creative writing and a survey of basic methods of literary study.

*Three credits.* Gorrell and Hume.

NOTE—English 281 and 291 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.

305-306, 405-406 (59-60). ADVANCED TRAINING IN CREATIVE WRITING. The course is conducted as a writer's workshop. Required for the major in creative writing.

*Prerequisite:* The submission of a sample of superior creative work.  
*Two credits each semester.* Staff.

337 (77). THE BIBLE AS LITERATURE. The study of representative literary types found in the Old and New Testaments.

*One semester. Three credits.* Eldridge and Edwards.

345-346 (68-69). THE ENGLISH NOVEL. A study of the development of the novel in England from the eighteenth century to the present.

*Three credits each semester.* Hume and Gorrell.

355-356 (72-73). MODERN DRAMA. Representative English and American dramatists, since 1890.

*Two credits each semester.* Gorrell.

385 (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.

441-442 (70-71). AMERICAN LITERATURE. The development of American literature from the beginning to the present.

*Three credits each semester.* Eldridge and Hume.

451-452 (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.

*Three credits each semester.* Laird.

461-462 (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.

*Three credits each semester.* Gorrell.

465-466 (75-76). SHAKESPEARE. The reading of Shakespeare's plays and a closer interpretation of his more characteristic dramas.

*Three credits each semester.* Gorrell.

469 (78). MILTON. A study of the representative writings of John Milton.

*One semester. Three credits.* Hume and Gorrell.

471-472 (87-88). THE AGE OF REASON. Studies in the leading writers from Dryden to Burke, with attention to continental influences.

*Three credits each semester.* Hume.

475-476. (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.

*Three credits each semester.* Laird.

481-482 (80-80A). THE VICTORIAN AGE. The social and artistic movement of the nineteenth century as exemplified in English poetry and prose.

*Three credits each semester.* Laird.

485-486 (91-92). MODERN LITERATURE. A serious study of modern writing with the emphasis upon contemporary American and British literature, but with attention to significant literary movements throughout the world.

*Three credits each semester.* Eldridge and Hume.

493 (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 may be required of seniors majoring in the department. (See requirements for majors in English.)

*One semester. Three credits.* Laird and Staff.

496-497, 498-499 (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.

501-502 (101-102). SEMINAR.

Open only to graduate students. Hours to be arranged with individual students. *One to three credits each semester.* Staff.

591-592 (200). THESIS COURSE.

Open only to candidates for a master's degree. Staff.

## Speech

111-112 (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.

*Two credits each semester. Staff.*

217-218 (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 expressions of thoughtful opinions on current topics are stressed.

*Two credits each semester. Staff.*

221-222 (21-22). INTERPRETATION. The oral interpretation of the forms of literature with special attention directed to diction.

*Two credits each semester. Staff.*

311-312 (61-62). ADVANCED SPEECH COMPOSITION. Study for effective speech composition, based upon application of rhetorical and psychological principles. Open to limited number of students with consent of instructor.

*Two credits each semester. Staff.*

315-316 (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 111-112 or 217-218. Two credits each semester.*

317-318 (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 217-218. The course may be repeated for credit. Maximum of eight credits may be earned. Two credits each semester.*

321-322 (53-54). ADVANCED INTERPRETATION. A study of advanced techniques of oral expression to develop imagination, reading skill, and platform deportment in all its phases. Practice will include radio presentations of dramatic materials.

*Prerequisite: English 221-222, or the consent of the instructor. Two credits each semester.*

327-328. RADIO. Practice and discussion of radio speaking and production.

*Prerequisite: English 111-112 or other elementary work in speech. Two credits each semester.*

413. (83). PARLIAMENTARY LAW AND PRACTICE. Study and practice of the parliamentary rules and procedure governing deliberative assemblies.

*Two credits.*

415-416 (63-64). ORATORY AND SOCIETY. 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.

*Prerequisite:* English 111-112 or 217-218. *Two credits each semester.*

417 (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.*

419-420 (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.*

421-422 (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.

*Three credits each semester.* This course may be repeated for credit as 421A, 421B, etc.

## FOREIGN LANGUAGES

Professors CHAPPELLE (Chairman of Department), MURGOTTEN; Associate Professors GOTTARDI, MELZ; Assistant Professors KLINE (on leave), DANDINI; Mr. MARSH, Miss ANCHO, Mrs. MEREDITH, Mr. MILLER, Mrs. BROWN.

Requirements for a minor in French, German, Italian, Latin, and Spanish: With no admission units, courses 101-102 (10 credits), 103-104 (6 credits),\* and 2 additional credits in courses numbered 300 or above; with 2 admission units, courses 103-104 (6 credits), and 6 additional credits in courses numbered 300 or above; with 4 admission units, 6 credits in courses numbered 300 or above.

Requirements for a major in French, German, Italian, Latin, and Spanish: With no admission units, courses 101-102 (10 credits), 103-104 (6 credits),\* and 10 additional credits in courses numbered 300 or above; with 2 admission units, courses 103-104 (6 credits), and 14 additional credits in courses numbered 300 or above; with 4 admission credits, 16 credits in courses numbered 300 or above.

Students intending later to teach foreign languages are urged not to

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\*German 109-110 may be offered in lieu of German 103-104.

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 chairman of the department.

Courses numbered above 300 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 300 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 chairman of the department, a given course numbered above 300 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 359-A).

For all foreign-languages courses numbered "104" the prerequisite is three years of high school work or courses 101, 102, and 103 in the same language.

### Foreign Languages

501 (200). FOREIGN LANGUAGE THESIS COURSE. Open only to candidates for the master's degree.

*Six credits.*

#### French

101 (1). FIRST YEAR FRENCH. Drill in the essentials of grammar. Elementary composition and conversation.

*First semester. Five credits. Staff.*

102 (2). FIRST YEAR FRENCH (Continued). Grammar, composition and conversation. Translation of simple prose texts.

*Prerequisite: French 101 or one year of high school French. Second semester. Five credits. Staff.*

103-104 (3-4). SECOND YEAR FRENCH. Readings from modern French prose writers. A review of grammar. Conversation and composition.

*Prerequisite: French 101-102 or two years of high school French. Three credits each semester. Gottardi and Marsh.*

351-352 (51-52). THE FRENCH NOVEL. Rapid reading of masterpieces of French fiction: Balzac, Sand, Mérimée, Zola, Daudet, etc.

*Prerequisite: French 103-104. Two credits each semester.*

353-354 (53-54). FRENCH POETRY. A study of the French lyric poets from Villon to contemporary writers.

*Prerequisite: French 103-104. Two credits each semester. Murgotten.*

355-356 (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 103-104. Two credits each semester. Chappelle.*

357-358 (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 103-104. Two credits each semester. Chappelle.*

359-360 (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 103-104. *Two credits each semester.*

369-370 (69-70). **FRENCH CLASSIC DRAMA.** The development of the drama in France with special study of the works of Corneille, Racine, and Molière.

*Prerequisite:* French 103-104. *Two credits each semester.* Murgotten.

371 (71). **CONTEMPORARY FRENCH DRAMA.** A study of French plays of the twentieth century.

*Prerequisite:* French 103-104. *First semester. Two credits.* Murgotten.

372 (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 103-104. *Second semester. Two credits.* Murgotten.

373-374 (73-74). **ADVANCED FRENCH COMPOSITION AND CONVERSATION.** Includes a study of French epistolary style. This course should be taken simultaneously with the second year of junior-senior reading courses in French.

*Prerequisite:* French 103-104. *Two credits each semester.*

381-382 (81-82). **THE EIGHTEENTH CENTURY IN FRENCH LITERATURE.** A study of the works of Montesquieu, Voltaire, Rousseau, etc.

*Prerequisite:* French 103-104. *Two credits each semester.* Chappelle.

389-390 (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 103-104. *Two credits each semester.* Gottardi.

### German

101 (1). **FIRST YEAR GERMAN.** A systematic study of grammar, elementary composition and conversation.

*First semester. Five credits.* Staff.

102 (2). **FIRST YEAR GERMAN (Continued).** Grammar and composition. Reading of easy prose and poetry.

*Prerequisite:* German 101 or one year of high school German. *Second semester. Five credits.* Staff.

103-104 (3-4). **INTERMEDIATE GERMAN.** Grammar review. Reading of German short stories, with exercises in conversation and composition.

*Prerequisite:* German 101-102., or two years of high school German. *Three credits each semester.* Chappelle and Melz.

109-110 (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 101-102, or two years of high school German. *Three credits each semester.* Chappelle and Melz.

351-352 (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 103-104. *Two credits each semester.* Melz.

355-356 (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 103-104. *Two credits each semester.* Melz.

357-358 (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 103-104. *Two credits each semester.* Chappelle.

359-360 (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 103-104 or 109-110. *Two credits each semester.* Chappelle.

369-370 (69-70). GERMAN CLASSICS. Reading and technical study of representative works of Lessing, Schiller, and Goethe.

*Prerequisite:* German 103-104. *Both semesters. Two credits each semester.* Chappelle.

371-372 (71-72). NINETEENTH CENTURY GERMAN DRAMA. A study of the German drama from Romanticism to Naturalism: Kleist, Grillparzer, Hebbel, Hauptmann, Schnitzler, etc.

*Prerequisite:* German 103-104 or the equivalent. *Two credits each semester.* Melz.

379-380 (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 103-104 or 109-110. *Two credits each semester.*

### Italian

101 (1). FIRST-YEAR ITALIAN. Elementary grammar, composition, and conversation. Reading of modern Italian prose.

*First semester. Five credits.* Meredith.

102 (2). FIRST-YEAR ITALIAN (Continued). Grammar, composition, and conversation. Translation of modern Italian prose and poetry.

*Prerequisite:* Italian 101 or one year of high school Italian. *Second semester. Five credits. Meredith.*

103-104 (3-4). INTERMEDIATE ITALIAN. Grammar review. Reading of prose and poetry. Exercises in conversation and composition.

*Prerequisite:* Italian 101-102, or two years of high school Italian. *Three credits each semester. Gottardi.*

351-352 (51-52). THE ITALIAN NOVEL. Rapid reading of masterpieces of modern Italian fiction: Manzoni, Fogazzaro, Verga, etc.

*Prerequisite:* Italian 103-104. *Two credits each semester. Gottardi.*

353-354 (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.

*Prerequisite:* Italian 103-104. *Two credits each semester. Gottardi.*

355-356 (55-56). INTERMEDIATE COMPOSITION.

*Prerequisite:* Italian 103-104. *Two credits each semester. Gottardi.*

### Latin

101 (1). FIRST-YEAR LATIN. Drill in the essentials of Latin grammar. Word study and composition. Roman life and customs.

*First semester. Five credits. Murgotten.*

102 (2). FIRST-YEAR LATIN (Continued). Translation of easy Latin prose. Composition. Roman antiquities.

*Prerequisite:* Latin 101 or one year of high school Latin. *Second semester. Five credits. Murgotten.*

103 (3). CICERO. Orations. Study of Roman law and government.

*Prerequisite:* Latin 102 or two years of high school Latin. *First semester. Three credits. Murgotten.*

104 (4). VERGIL. First six books of the Æneid. Study of classic myths.

*Prerequisite:* Latin 103 or three years of high school Latin. *Second semester. Three credits. Murgotten.*

351-352 (51-52). ADVANCED LATIN. Selected readings of Latin prose. History of Latin literature. Composition.

*Prerequisite:* Latin 104 or four years of high school Latin. *Two credits each semester.*

353-354 (53-54). LATIN LYRIC POETRY. Horace and Catullus.

*Prerequisite:* Latin 104 or four years of high school Latin. *Two credits each semester.*



## Portuguese

361-362 (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 103-104 in any romance language or Latin or the equivalent. *Three credits each semester.* Gottardi.

371-372 (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 361-362 or the equivalent. *Two credits each semester.* Chappelle.

## Spanish

101 (1). FIRST-YEAR SPANISH. Drill in the essentials of grammar. Elementary composition and conversation.

*First semester. Five credits.* Dandini, Ancho.

102 (2). FIRST-YEAR SPANISH (Continued). Grammar, composition and conversation. Translation of simple prose and poetry.

*Prerequisite:* Spanish 101 or one year of high school Spanish. *Second semester. Five credits.* Dandini, Ancho.

103-104 (3-4). SECOND-YEAR SPANISH. Readings from modern Spanish writers. A review of grammar. Conversation and composition.

*Prerequisite:* Spanish 101-102 or two years of high school Spanish. *Three credits each semester.* Chappelle, Dandini, Gottardi, Mrs. Brown, Staff.

351-352 (51-52). THE MODERN SPANISH NOVEL. Rapid reading of masterpieces of Spanish fiction: Galdós; Valdés; Ibáñez; etc.

*Prerequisite:* Spanish 103-104. *Two credits each semester.* Melz.

353 (53). SPANISH PROSE WRITERS OF THE TWENTIETH CENTURY. Readings dealing primarily with the "ensayistas," etc.

*Prerequisite:* Spanish 103-104. *First semester. Two credits.*

355-356 (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 103-104. *Two credits each semester.* Dandini.

357-358 (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 103-104. *Two credits each semester.* Gottardi.

367-368 (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. *Two credits each semester.*

369-370 (69-70). MODERN SPANISH DRAMA. A study of Spanish dramatic literature from the golden age to the twentieth century.

*Prerequisite:* Spanish 103-104. *Two credits each semester.* Dandini.

371-372 (71-72). SPANISH-AMERICAN LITERATURE. Prose and poetry.

*Prerequisite:* Spanish 103-104. *Two credits each semester.* Melz.

379-380 (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 103-104. *Two credits each semester.* Melz.

381-382 (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. *Two credits each semester.*

## GEOGRAPHY

Assistant Professor THOMPSON.

101 (15). SURVEY OF WORLD GEOGRAPHY. A study of the natural environment and human use regions of the world and their interrelationships with emphasis on map work and place location.

*Either semester. Three credits.* Thompson.

103 (3). PHYSICAL GEOGRAPHY. A survey of climatic phenomena, land forms, vegetation, soils, and natural resources with special reference to the significance of these factors on man's activities. Satisfies natural science requirements.

*First semester. Three credits.* Thompson.

109 (9). CLIMATOLOGY. An outline of climatic elements, and a study of world climates with emphasis on their geographic significance. Satisfies natural science requirements.

*Second semester. Three credits.* Thompson.

359 (35). GEOGRAPHY OF NORTH AMERICA. A regional analysis of the interrelationships of the physical setting, agriculture, transportation and marketing, mineral industries, and manufacturing. Special emphasis on the United States.

*Prerequisite:* Geography 101, 103, or by permission. *First semester. Three credits.* Thompson.

455 (55). GEOGRAPHY OF ASIA. An analysis of the natural

resources, agriculture, industry, and potential of the Asiatic Countries with special emphasis on China and the Soviet Union. The Soviet Union is dealt with here in its entirety even though it is not wholly on the Asiatic Continent.

*Prerequisites:* Geography 101, 103, or by permission. *Second semester. Three credits.* Thompson.

## GEOLOGY

Professor GIANELLA (Chairman of Department); Associate Professor WHEELER, Assistant Professors CREE, THOMPSON, JACOBBER.

Requirements for a minor in geology: Geology 101 (or 110), 102, 211, 212 (10 credits), and 8 additional credits in the department, at least 6 of which must be in courses numbered above 300.

Requirements for a major in geology: Geology 101 (or 110), 102, 212, and 214 (12 credits), and 15 additional credits in the department, at least 12 of which must be in courses numbered above 300.

101 (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.* Staff.

102 (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 101 or 110. *Either semester. Three credits.* Wheeler, Jacobber.

110 (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.* Staff.

211 (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 101, 102 and 242, or the equivalent. *First semester. Two credits.* Fee \$2. Cree, Jacobber.

212 (12). BLOWPIPE ANALYSIS. The determination of minerals by blowpipe analysis.

*Prerequisite:* Chemistry 101, 102, and 242, or the equivalent, and Geology 211. *Second semester. Two credits.* Fee \$3. Cree, Jacobber.

214 (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 211. *Second semester. Two credits.* Gianella, Cree, Jacober.

325 (55-56). ADVANCED MINERALOGY. Advanced study of either blowpipe analysis, crystallography, or the determination of minerals by other optical properties.

*Prerequisites:* Geology 211, 212, and 214. *Either semester. One or two credits.* Fee \$2. Gianella, Cree, Jacober.

351 (51). PETROLOGY. Laboratory study of rocks and rock-forming minerals in hand specimens. Lectures on the character, origin, and classification of rocks.

*Prerequisite:* Physics 151-152 or 203-204, Geology 101 or 110, 102, 211, and 212. *First semester. Two credits.* Fee \$2. Gianella, Cree.

352 (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 351. *Second semester. Three credits.* Fee \$2. Gianella, Cree.

353 (53). STRATIGRAPHIC PALEONTOLOGY. A study of invertebrate fossils, and the application of paleontologic methods to stratigraphy.

*Prerequisite:* Geology 101 or 110, and 102 (Zoology 103 recommended). *First semester. Three credits.* Wheeler.

354 (54). GEOLOGIC REPORTS. Study and practice in the preparation, illustration, and oral presentation of geologic reports.

*Prerequisite:* Geology 351. *Second semester. Two credits.* Staff.

360 (60). ECONOMIC GEOLOGY OF THE NONMETALS. Geology of ground water and the occurrence, distribution, origin, and economic value of other nonmetals.

*Prerequisite:* Geology 101 or 110, 211, 212 and 214. *Second semester. Three credits.* Wheeler.

370 (70). FIELD GEOLOGY. Instruction in field methods and investigation of geologic features of several areas. Transportation is provided by the S. Frank Hunt Foundation.

*Prerequisite:* Geology 211, 212, 214. *Both semesters. One credit.* Staff.

382 (82). STRUCTURAL GEOLOGY. A study of the deformation of the earth's crust.

*Prerequisite:* Junior standing. *First semester. Three credits.* Jacober.

410 (71). SUMMER FIELD GEOLOGY. (S. F. Hunt Geologic Foundation Field Course). A six-weeks field study beginning about June 10 in a previously unmapped Nevada mining district

selected for its variety of petrologic, stratigraphic, and structural problems, its mineralization, and availability of aerial photographs or other suitable base maps. On the basis of detailed stratigraphic studies, map units will be selected and accurately plotted on a large-scale base by plane table methods. Individual field party manuscript maps will be assembled into a finished geologic map. Geologic cross-sections and mine maps will also be prepared.

*Prerequisites:* Senior standing and/or approval of Chairman, Department of Geology. (Prospective registrants must be approved prior to May 1 and registration will probably precede the opening date of summer school.) *Six credits.* Fee (including registration): \$75. In addition, \$90 to cover cost of board will be assessed in advance, any unexpended portion of which will be refunded upon conclusion of course. Wheeler and Cree.

NOTE—Geology 410 may be substituted for Civil Engineering 258 (summer surveying).

430 (84). PETROLEUM GEOLOGY. Principles of the occurrence and accumulation of petroleum.

*Prerequisite:* Geology 351. *Second semester. Three credits.* Cree.

440 (58). GEOMORPHOLOGY. Development and interpretation of the relief features of the earth.

*Prerequisite:* Geology 101 or 110, Geography 103. *Second semester. Three credits.* Jacober.

461 (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 211, 212, 214, and 351 (Geology 352 recommended). *First semester. Three credits.* Gianella.

479 (79, 80, 81). GEOLOGY PROJECT. Original investigation of a geologic problem.

*Prerequisite:* Geology 351, 352, and 360, or equivalent training. *Either semester. Two credits.* May be repeated for credit as 479 A, B, etc. Staff.

480 (83). GEOPHYSICAL METHODS. Principles of geophysics and their geologic application.

*Prerequisites:* Geology 351 and 382, Mathematics 151-152, and Physics 203-204. *First semester. Three credits.* Jacober.

485 (85). SEMINAR. Library work and reports on topics of geologic interest.

*Either semester. One credit.* May be for credit as 485A, B, etc. Staff.

579 (179, 180). ADVANCED GEOLOGIC INVESTIGATION.

Credits and fee to be arranged according to work undertaken. *Either semester.* Staff.

599 (199, 200). THESIS.

*Either semester. Six to ten credits.* Fee to be arranged according to work undertaken. Staff.

## GERMAN

(See Foreign Languages)

## HISTORY AND POLITICAL SCIENCE

Professor HICKS (Chairman of Department); Associate Professors SMITH, HUTCHESON, AUCHAMPAUGH; Assistant Professor ULPH.

Requirements for a minor in History: History 101-102 (6 credits), History 105-106 (6 credits), and 6 additional credits in History.

Requirements for a major in History: History 101-102 (6 credits), History 105-106 (6 credits), and 15 additional credits in History.

Requirements for a minor in Political Science: Political Science 101-102 (6 credits), Political Science 105-106 (4 credits), and 8 additional credits in Political Science.

Requirements for a major in Political Science: Political Science 101-102 (6 credits), Political Science 105-106 (4 credits), and 17 additional credits in Political Science.

History 341-342, 395, 403-404, 405, 408, and 451-452 may be used to satisfy requirements in either History or Political Science.

Political Science 416 and 427 may be used to satisfy requirements in either Political Science or History.

Political Science 101-102, taken together, satisfy the legal requirements for Political Science 301-302; but students who do not take both 101 and 102 must take both 301 and 302, in order to graduate. Students desiring a better comprehension of the Constitution of the United States and Nevada than can be obtained in 301 and 302, and students desirous of conforming to legal requirements in certain other States, should take 101 and 102.

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 300 are for juniors and seniors.

Political Science 301 and 302 may not be used to satisfy requirements for a major or minor in Political Science.

*History*

101-102 (1-2). UNITED STATES. Colonial times to the present: Social, political and diplomatic.

*Three credits each semester.* Open to freshmen and sophomores. Hicks, Hutcheson, Auchampaugh.

105-106 (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.

Open to freshmen and sophomores. *Three credits each semester.* Ulph, Hutcheson, Auchampaugh.

303 (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.* Auchampaugh.

305 (85). UNITED STATES, 1776-1865. The Revolution; constitution-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. Auchampaugh.*

306 (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. Auchampaugh.*

312 (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. Auchampaugh.*

314 (58). WESTERN NORTH AMERICA. The Far West; The Rocky Mountains and West Coast States; activities of the Spanish, Russians, British, and Americans on the Pacific Coast.

*Second semester. Three credits. Hutcheson.*

331-332 (65-66). NEVADA HISTORY. First-half ends at Statehood and early Comstock, about 1866.

One hour lecture weekly, added credit for extra reading reports. *One, two, or three credits each semester. Hutcheson.*

341-342 (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.

*Three credits each semester. Auchampaugh.*

371-372 (71-72). ANCIENT CIVILIZATION. Origins of Western civilization in the Near East, Greece, and Rome: art, culture, society, and politics.

*Two credits each semester. Hutcheson.*

376 (76). MEDIEVAL HISTORY, 400-1500. Civilization of medieval Europe: culture, the Church, and law. Background of modern nations.

*Second semester. Three credits.*

393-394 (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.

*Two credits each semester. Hutcheson.*

395 (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. Hutcheson.*

403-404 (77A-78A). IMPERIALISM AND WORLD PEACE. A study of European colonial expansion and the problem of maintaining peace.

*Two credits each semester. Ulph.*

405 (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. Ulph.*

408 (70). EUROPE SINCE 1914. A detailed analysis of a turbulent era.

*Second semester. Three credits. Ulph.*

411-412 (79-80). THE FRENCH REVOLUTION AND NAPOLEON. An intensive study of the great epoch extending from 1789 to 1815.

*Two credits each semester. Ulph.*

421-422 (83-84). HISTORY OF RUSSIA. Foundations of the Russian state and society. The imperial and revolutionary eras.

*Three credits each semester. Ulph.*

431-432 (97-98). MODERN GERMANY AND AUSTRIA. The problem and achievement of unification; Germany as a world factor.

*Three credits each semester. Auchampaugh.*

441-442 (59-60). LATIN AMERICA. History of Spanish and Portuguese America from the age of discovery to the present: domestic and international.

*Two credits each semester. Hicks.*

451-452 (81-82). THE FAR EAST. Domestic and international relations of China and Japan from the earliest times to the present.

*Two credits each semester. Hicks.*

498-499 (99-100). UNDERGRADUATE SEMINAR.

*Credits arranged. Staff.*

501-502 (99-100). GRADUATE SEMINAR.

*Credits arranged. Staff.*

591-592 (199-200). GRADUATE THESIS.

*Either semester. Credits arranged. Staff.*

### *Political Science*

101-102 (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.

Open to freshmen and sophomores. *Three credits each semester. Smith, Auchampaugh.*



105-106 (5-6). COMPARATIVE GOVERNMENT. A study of the frameworks, functions and motivating ideals of various representative democratic and totalitarian governments.

Open to freshmen and sophomores. *Two credits each semester.* Smith, Hutcheson.

301-302 (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.

*One credit each semester.* Hicks, Smith, Auchampaugh, Ulph.

357 (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.* Smith.

369 (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.* Smith.

404 (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.* Smith.

416 (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.* Smith.

418 (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.* Smith.

427 (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.* Smith

431-432 (83-84). PRINCIPLES OF PUBLIC ADMINISTRATION. Principles and problems of public administration; the budget; forms of administrative action; types of control; administrative law.

*Two credits each semester.* Smith.

498-499 (99-100). UNDERGRADUATE SEMINAR.  
*Credits arranged. Staff.*

501-502 (99-100). GRADUATE SEMINAR.  
*Credits arranged. Staff.*

599 (199-200). GRADUATE THESIS.  
*Either semester. Credits arranged. Smith.*

## HOME ECONOMICS

Professor SWIFT (Chairman of Department); Associate Professor POPE; Assistant Professor MARSH; Miss CARROLL.

The following curricula are offered in the Department of Home Economics:

1. Teaching and Extension work.
2. Foods and Nutrition.

This major gives preliminary training for hospital dietitians and institutional managers. Graduates of this course are eligible for a 12-month internship in an accredited hospital or institution. This is a requirement of The American Dietetics Association.

3. General Major.

New requirements for the general major in home economics are available in the office of the Department.

A minor in Home Economics constitutes 18 hours taken from the following: Open to men and women:

### *Freshmen*

Foods, 131-132  
Clothing, 115-116-117  
Orientation, 103

### *Sophomore*

Nutrition and Health, 233  
Care of Family Health, 253  
Food and Nutrition, 250  
Art and Science of Meal Service, 255

### *Junior*

Cookery for Men, 357  
Tailoring, 366  
Nutrition, 334  
Family Clothing Problem, 367  
Costume, 368

### *Senior*

Home Decoration, 487  
Home Management, 486  
Child Development, 475-476  
Household Equipment, 488  
Experimental Foods, 494

103 (3). ORIENTATION. A discussion of opportunities in the field of Home Economics as a basis for the choice of major. Also application of standards of social conduct to daily living.

*First semester. Two lectures. Two credits. Swift.*

115 (15). CLOTHING. A study of the college girl's budget, good grooming, clothing selection and construction of garments made by hand and machine.

*First semester. One lecture. Two laboratories. Three credits. Fee \$4. Pope.*

116 (16). TEXTILES FOR THE FAMILY. A study of construction of fabrics and fiber content, their selection, care, and use. New textiles and new finishes. Field trips.

*Second semester. Two lectures. One laboratory. Three credits. Fee \$4. Pope.*

118 (18). **COSTUME DESIGN AND CONSTRUCTION.** Application of color, line, and the principles of art in the selection of clothing for the individual. Fitting and simple pattern design.

*Second semester. One lecture. Two laboratories. Three credits.*  
Fee \$4. Pope.

131 (31). **FOOD FOR THE FAMILY.** A study of food including the principles of selection, preparation, care and use of foods for maintaining the nutrition of the individual and his family. Preparation of family meals with emphasis on breakfasts and lunches.

*First semester. One lecture. Two laboratories. Three credits.*  
Fee \$8. Staff.

132 (32). **FOOD FOR THE FAMILY.** A study of food, including the daily food patterns, standards for selection, care, cost, and preparation of family meals, with emphasis on dinners.

*Second semester. One lecture. Two laboratories. Three credits.*  
Fee \$8. Staff.

133. **NUTRITION FOR THE COLLEGE STUDENT.** Relation of food to physical fitness.

*First semester. Three lectures. Three credits.* Marsh.

250 (50). **FOOD AND NUTRITION.** Designed for the Prenurse. This course deals with food preparation, service and applied nutrition.

*Second semester. Alternate years. Two lectures. One laboratory. Three credits.* Fee \$5. Marsh.

253 (53). **CARE OF FAMILY HEALTH.** A study of State and Community Agencies building good-health programs and care of health in the home.

*First semester. Two lectures. One laboratory. Three credits.* Fee \$2. Marsh.

255 (55). **THE ART AND SCIENCE OF MEAL SERVICE.** Student actually purchases, prepares and serves family meals at various cost levels. All types of service are experienced.

*Prerequisite: 131-132 or equivalent. One lecture. Three laboratories. Four credits.* Fee \$8. Swift.

334 (34). **NUTRITION.** Designed for majors in nutrition and any other student who meets the prerequisites of organic chemistry and physiology.

*Offered in alternate years with 346. Three lectures. Three credits.*  
Marsh.

357 (57). **COOKERY FOR MEN.** A service course for men who desire to learn short cuts of cookery on the grill, in the camp, or on the range.

*First semester. One lecture. Two laboratories. Three credits.* Fee \$8. Marsh.

366 (66). **TAILORING AND ADVANCED CLOTHING.** A study of

tailoring techniques, construction of coats, suits, and dresses. Advanced problems in construction.

*Second semester. One lecture. Two workshops. Three credits. Fee \$4. Pope.*

367 (67). THE FAMILY CLOTHING PROBLEMS. Study of wardrobe needs of the family and problems relating to purchase, care and construction of the family clothing. To buy or sew: remodeling.

*First semester. One lecture. Two workshops. Three credits. Fee \$4. Pope.*

368 (68). COSTUMING. Application of color and design to creative costuming. Helpful to physical education majors, the elementary grade teacher.

*Second semester. Two lectures. Two credits. Given alternate years. Offered 1950. Pope.*

402. HOME ECONOMICS SEMINAR.

*Hours and credits to be arranged. Staff.*

436 (34). DIET IN DISEASE. A study of the adaptation of diet in disease in which nutrition is a primary concern. Continued application of material in 334. For nutrition major and any other who wishes to broaden his knowledge of nutrition.

*Second semester. Offered alternate year with 334. Two lectures. One laboratory. Three credits.*

475 (75). CHILD DEVELOPMENT. Preconceptional care, pregnancy, and childbirth; the factors which contribute to the physical and mental health of the mother, and the well-being of the family group. Growth and development of the child during the prenatal period and early infancy. Observations of children are arranged.

*Prerequisite: Junior or senior standing, or consent of the instructor. First semester. Three lectures. Three credits. Carroll.*

476 (76). CHILD DEVELOPMENT. Growth and behavior characteristics of the preschool child, with principles for guidance. The home environment, and the relationships within the family, as significant factors in the child's development during the important foundational years.

*Second semester. Three lectures. Three credits. Carroll.*

483-485 (83-84). SPECIAL PROBLEMS IN FOODS. Field work for seniors or graduates.

*Hours to be arranged. Three credits. Swift.*

486 (86). HOME MANAGEMENT. This gives men and women an opportunity to study family goals and choices, the wise use of time, skills, and kitchen arrangement; the limitations and uses of family income; the scientific attitude for the present and future security.

*Second semester. Three lectures. Three credits. Marsh.*

487 (87). HOME DECORATION. A study of house plans, suitable furnishings, with appreciation of art principles. Cost and care of furnishings and accessories. Field trips.

*First semester. One lecture. Two laboratories. Three credits. Fee \$3. Pope.*

488 (88). HOUSEHOLD EQUIPMENT. Selection of household equipment. Points of construction, operation, cost, care and repair.

*Offered 1950. Second semester. One lecture. One laboratory. Two credits. Fee \$2. Pope.*

491. EDUCATION FOR FOODS AND NUTRITION MAJORS. This course meets the requirements of the American Dietetic Association.

*Given alternate years. First semester. Three lectures. Three credits. Swift.*

494 (94). EXPERIMENTAL COOKERY. Development of experimental methods; application to investigations in cookery. Preparation for independent investigation.

*Prerequisites: Home Economics 131-132. Second semester. One lecture. One laboratory. Two credits. Fee \$15. Swift.*

495 (95). SPECIAL PROBLEMS IN CLOTHING. Field work for seniors or graduates.

*Second semester. Hours to be arranged. Three credits. Pope.*

496 (96). QUANTITY COOKERY. Meal planning, food production, purchasing and service for large groups.

*Prerequisites: Home Economics 131-132. Offered 1950. Second semester. One lecture. Two laboratories. Three credits. Fee \$4. Marsh.*

498 (98). INSTITUTION ORGANIZATION AND MANAGEMENT. A study for equipment, furnishings, floor plans, cost control, personnel, labor, and sanitation laws governing institutions.

*Offered 1950. Second semester. Three lectures. Three credits. Marsh.*

499 (99). DEMONSTRATION. Principles and techniques for commercial and classroom demonstrations. Audiences—campus and community.

*First semester. One lecture. Two laboratories. (Given in alternate years.) Three credits. Fee \$12. Swift.*

## HORTICULTURE

Professor LEHENBAUER, Chairman of Department.

102. ELEMENTS OF HORTICULTURE. A survey course of the field of horticulture; fruit growing, vegetable gardening, floriculture, and ornamental gardening.

*No prerequisites. Second semester. Two credits. Lehenbauer.*

201 (1). ORNAMENTAL HORTICULTURE. The identification of and the fundamental principles involved in the culture of trees,

shrubs, herbaceous perennials, and annuals, with application to the beautifying of the home grounds.

*No prerequisites. First semester. Two credits.* Lehenbauer.

204. PLANT PROPAGATION. The principles involved in the multiplying of horticultural plants by seeds, cuttings, grafting, etc. The origin and development of new varieties.

*Prerequisites:* Horticulture 102 or 201. *Second semester. Two credits.* Lehenbauer.

353. FRUIT GROWING. The principles involved in the growing and care of fruit trees and of bearing-producing plants, applied primarily to the small home orchard and berry garden.

*Prerequisite:* Horticulture 102. *First semester. Three credits.* Lehenbauer.

354. DISEASE AND PEST CONTROL. The preventing and controlling of diseases and pests of horticultural plants. Spraying with insecticides and fungicides.

*Prerequisite:* Horticulture 102 or 201. *Second semester. Two credits.* Fee \$2. Lehenbauer.

356 (2). VEGETABLE GROWING. The fundamental principles involved in the growing of vegetable plants.

*Prerequisite:* Horticulture 102 or 201. *Second semester. Three credits.* Lehenbauer.

364. DISEASES OF HORTICULTURAL PLANTS. Same as Botany 364.

491. SPECIAL PROBLEMS. An intensive study of a special problem in the field of horticulture.

*Prerequisite:* Nine credits in horticulture or in a similar field. *First semester. One to three credits.* Graduate credit given with the consent of the instructor. Lehenbauer.

492. SPECIAL PROBLEMS. Same as 491 or a continuation thereof.

*Second semester. One to three credits.* Lehenbauer.

#### ITALIAN

(See Foreign Languages)

### JOURNALISM

Professor HIGGINBOTHAM (Chairman of Department); Mr. JANULIS, Mrs. MERGEN; cooperating newspapermen.

Requirements for a minor in journalism: Journalism 101-102 (6 credits), Journalism 221-222 (6 credits), Journalism 351-352 (4 credits), and 2 additional credits in journalism courses numbered 300 or above.

Requirements for a major in journalism: Journalism 101-102 (6 credits), Journalism 221-222 (6 credits), Journalism 351-352 (4 credits), and Journalism 353 (3 credits), Journalism 372 (1 credit), Journalism 379, the newspaper and society (2 credits), Journalism 481-482 (2 credits), and 3 additional credits in journalism in courses numbered 300 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 231-232, 361-362, 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 leading to the degree *Bachelor of Arts in Journalism*, see page 143.

101-102 (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 101 or Journalism 102.

*Two or three credits each semester.* Staff.

221-222 (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 instructor. *Three credits each semester.* Mergen and Janulis.

231-232, 361-362, 491-492 (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 101-102. *Both semesters. One or two credits each semester.* Janulis.

351-352 (51-52). NEWS EDITING. 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 221-222 and the consent of the instructor. *Two or three credits each semester.* Mergen and Janulis.

353 (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. The men and the newspapers that created the traditions of modern journalism.

Open to juniors and seniors. *Three credits.* Higginbotham.

354 (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 221-222. *Three credits.* (Alternate years.) Higginbotham.

356-357 (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 newspapers, magazines, and radio stations (second semester).

Open to juniors and seniors. *Two credits each semester.* (Alternate years.) Higginbotham and Mergen.

365-366 (65-66). COMMUNITY NEWSPAPER MANAGEMENT. Principles of journalism peculiar to the country weekly and small city daily, especially in Nevada. Editorial, circulation, and advertising management.

*Prerequisite:* Journalism 221-222. *Two credits each semester.* (Alternate years.) Higginbotham and Janulis.

367 (67). EDITORIAL WRITING. Study of the interpretation of contemporary events through the newspaper and magazine editorial, coupled with extensive practice in writing.

*Prerequisite:* Journalism 221-222 or upperclass standing and the consent of the instructor. *Two or three credits.* (Alternate years.) Higginbotham.

368 (68). THE SPECIAL FEATURE ARTICLE. Study, writing, and marketing of the special feature article for magazines and newspapers.

*Prerequisite:* Journalism 221-222, or upperclass standing and demonstrated skill in writing. *Two credits.* (Alternate years.) Mergen.

370. AGRICULTURAL JOURNALISM. The writing of news stories and feature articles on agricultural and home economics subjects for newspapers and magazines. Open only to upperclass students in the College of Agriculture.

Not acceptable toward the requirements of the Course in Journalism or the major in journalism. *Two or three credits.* Staff.

372 (72). THE LAW OF THE PRESS. Study of State and Federal laws affecting the reporting of news, the expression of opinion, advertising, the publication of newspapers and magazines, and radio broadcasting.

*Prerequisite:* Journalism 221-222. *One or two credits.* Higginbotham.

375 (75). PICTORIAL JOURNALISM. 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 221-222. *Two credits.* (Alternate years.) Higginbotham.

379 (79). THE NEWSPAPER AND SOCIETY. Sociological aspects of journalism, including public opinion, newspaper leadership and responsibility, ethics, censorship, propaganda, the world's press, and other contemporary problems.

*Prerequisite:* Journalism 221-222 or the consent of the instructor. *Two or three credits.* (Alternate years.) Higginbotham.

481-482 (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 Associations, the Associated Press, and the Carson City Nevada Appeal; advertising work with Wilson Advertising Agency, the States Advertising Agency, or the Reno newspapers; or news or advertising work with Radio Station KOH or Radio Station KWRN.

*Prerequisite:* Open only to seniors in the course in journalism and senior majors in journalism. *One, two, or three credits each semester.* Higginbotham and cooperators in journalism.

Students will be assigned to internships in fields for which their courses in journalism have prepared them.

386 (86). JOURNALISM OF THE AIR. The principles and practice of writing journalistic types—the news story, the column, features, advertising for broadcasting. Special emphasis is given to news processing.

*Prerequisite:* Journalism 221-222. *Two or three credits.* (Alternate years.) Janulis.

387 (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. *Two credits.* (Alternate years.) Mergen.

393-394, 395-396 (93-94, 95-96). INDEPENDENT STUDY. Aspects of journalism not covered by other courses.

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).

335 (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 Professors BEESLEY (Chairman of Department), HARRIS; Assistant Professor MARTIN; Mr. DAVIS,

Mr. WEIHE; Mr. BRADSHAW, Mrs. CARTER, Mr. HOUSER, Mr. THOMPSON, Mrs. VAN DYKE, Mrs. WILLIAMS.

If two courses bear consecutive numbers and have a common description, the first is prerequisite to the second.

Requirements for a minor in mathematics: Mathematics 102 (2 credits), 110 (3 credits), 140 (4 credits), 231-232 (6 credits), or their equivalent, and 4 additional credits in the department in courses numbered above 300.

Requirements for a major in mathematics: Mathematics 102 (2 credits), 110 (3 credits), 140 (4 credits), 231-232 (6 credits), or their equivalent, and 13 additional credits in the department in courses numbered above 300.

Mathematics 151-152 (10 credits) may be substituted for Mathematics 102, 110, and 140 and Mathematics 251-252 may be substituted for Mathematics 231-232 in the major and minor requirements.

Placement Examination. During the orientation period preceding each fall registration a placement examination will be given. All entering freshmen in the College of Engineering must take this examination. Other students who wish to evaluate their backgrounds in high school algebra may arrange to take the examination.

Courses numbered above 300 are open to students who have completed calculus. Graduate credit may be allowed in courses numbered above 350.

A. REFRESHER ALGEBRA. A thorough review of algebra for students of the College of Engineering who fail to pass the placement examination. This course carries no university credit but may be used to remove entrance deficiencies.

*Each semester. No credit. Van Dyke.*

B. PLANE GEOMETRY. This course carries no university credit but may be used to remove entrance deficiencies.

*Each semester. No credit. Van Dyke.*

101 (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. Staff.*

102 (13). PLANE TRIGONOMETRY. A study of the trigonometric functions, identities, and the solution of triangles.

*Prerequisite:* Plane geometry and one year of high school algebra.  
*Each semester. Two credits. Staff.*

110 (11). COLLEGE ALGEBRA. Progressions binomial theorem, logarithms, inequalities, systems of linear and quadratic equations, determinants, elementary theory of equations, permutation and combinations.

*Prerequisite:* Mathematics 101 or 1½ years of high school algebra.  
*Each semester. Three credits. Staff.*

140 (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 110, 102. *Second semester. Three credits.* Martin.

151-152 (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. A placement examination will be given during the orientation period. Students who fail to pass this examination must complete Mathematics A before registering in Mathematics 151. Students who fail to carry Mathematics 151 will be transferred to Mathematics A. Mathematics 151, *first semester, five credits.* Mathematics 152, *second semester, five credits.* Staff.

202 (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.

*Prerequisite:* Mathematics 102. Given when requested by sufficient number of students. *Two credits.*

210 (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 110. *First semester. Three credits.*

220 (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 110. *Second semester. Three credits.*

231-232 (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 110, 102, 140, or Mathematics 151, 152. Mathematics 231, *first semester, three credits.* Mathematics 232, *second semester, three credits.* Weihe.

241-242 (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.

*Prerequisite:* Mathematics 151-152. Mathematics 241, *first semester, three credits.* Mathematics 242, *second semester, three credits.* Tompson.

251-252 (27-28). **ENGINEERING CALCULUS.** A more extensive course than 241-242. Required of all students of civil, electrical and mechanical engineering. Other engineering students who

plan to take mathematics courses beyond Mathematics 342 should substitute this for 241-242.

*Prerequisite:* Mathematics 151, 152. Mathematics 251, *first semester, four credits.* Mathematics 252, *second semester, four credits.* Beesley and Staff.

290 (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.

*One-half credit each semester.* May be repeated for credit as 290a, 290b, and 290c. Staff.

301 (51). HISTORY OF MATHEMATICS. Lectures and assigned readings on the history of mathematical science. Recommended for students preparing to teach mathematics in high school. Cannot be used for graduate credit.

*First semester. Two credits.*

331 (66). TEACHING OF MATHEMATICS. See Education 331.

341-342 (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 241, 242; Physics 203. Mathematics 341, *first semester, three credits.* Mathematics 342, *second semester, two credits.*

351-352 (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.

Mathematics 351, *first semester, two credits.* Mathematics 352, *second semester, two credits.*

371 (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.* Beesley.

391-392 (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.

Mathematics 391, *first semester, two credits.* Mathematics 392, *second semester, two credits.* Alternates with Mathematics 401-402. Beesley.

395 (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.*

401-402 (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.

Mathematics 401, *first semester, two credits.* Mathematics 402, *second semester, two credits.* Alternates with Mathematics 391-392. Not to be given 1948-1949.

425 (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.

451-452. ADVANCED MATHEMATICS FOR ENGINEERS. Vector analysis, partial differential equations, Fourier series, and other topics of importance in applied mathematics.

*Prerequisite:* Mathematics 425. *Three credits. Either semester.*

501-502 (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.

Mathematics 501, *first semester, three credits.* Mathematics 502, *second semester, three credits.* Beesley.

550 (149). SEMINAR. Library work and reports on various topics of mathematical interest.

*Each semester. One to three credits each semester.* May be repeated for credit as 550a, 550b, 550c. Except under special circumstances, total credits will be limited to four.

600 (199-200). THESIS COURSE FOR GRADUATE STUDENTS.

*Six credits.* Staff.

COLLOQUIUM. Weekly meetings are held for the presentation of original work by members of the staff and by graduate students as well as for the study of known results taken from mathematical literature.

## MECHANICAL ENGINEERING

Professor VAN DYKE (Chairman of Department); Associate Professor HARRIS; Mr. SCHUMACHER, Mr. RYAN, Mr. VAN TASSEL.

105-106 (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, subassembly and assembly drawings, breakdown of a unit device, constructing all necessary drawings.

*Prerequisites:* Plane Geometry (Solid Geometry very desirable). Mathematics 151 and 152 to be taken concurrently with Mechanical Engineering 105 and 106. Required of all engineering students. *Two credits each semester.*

351 (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 203 and 204, Mathematics 251 and 252. *First semester. Three credits.*

353 (53). FUNDAMENTALS OF THERMODYNAMICS. Similar to Mechanical Engineering 355 and 356, but abbreviated so that it can be covered in one semester.

*Prerequisite:* Physics 203 and 204 and Mathematics 251 and 252. *First semester. Three credits.*

355 (55). THERMODYNAMICS. Principles of engineering thermodynamics; properties of gases; thermodynamic processes of gasses; gas cycles; internal combustion engines; air compressors and elements of different types of power plants.

*Prerequisites:* Physics 203 and 204, Mathematics 251 and 252. *First semester. Three credits.*

356 (56). APPLIED THERMODYNAMICS. Additional work in thermodynamics; properties of vapors; thermodynamic processes of vapors; vapor cycles; steam engines; steam turbines.

*Prerequisite:* Mechanical Engineering 355. *Second semester. Three credits.*

457 (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:* Civil Engineering 372. *First semester. Three credits.*

458 (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:* Mechanical Engineering 457. *Second semester. Three credits.*

464-465 (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.

*Prerequisites:* Mechanical Engineering 353 or 355 and 356 completed or taken concurrently. Mechanical Engineering 464 is prerequisite to Mechanical Engineering 465. Required of all Mechanical Engineering students. Second and first semester, respectively. *Three credits each semester.* Fee \$5 each semester.

471 (71). HEAT-POWER ENGINEERING. Power plants, fuels, combustion, steam generators, turbines, heat transmission, and steam generator accessories.

*Prerequisite:* Mechanical Engineering 356. *First semester. Three credits.*

472 (72). AIR CONDITIONING AND REFRIGERATION. Air conditioning for human comfort and industrial purposes, including heating and refrigeration.

*Prerequisite:* Mechanical Engineering 356. *Second semester. Three credits.*

476 (76). MECHANICAL VIBRATIONS. 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 351 and Mechanical Engineering 457. *Second semester. Three credits.*

477 (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:* Mechanical Engineering 356. *First semester. Three credits.*

478 (78). AERODYNAMICS. The theory of flight, air flow, and principles of design of aircraft structures are covered. The requirement of the aircraft power plant are studied, and data covering modern engines presented.

*Prerequisite:* Civil Engineering 367. *First or second semester. Three credits.*

479 (79). HEAT TRANSFER. Review of fundamentals of the transfer of thermal energy and radiant energy. Design problems in heat transfer, and application of technical design data to specific problems.

*Prerequisite:* Mechanical Engineering 356. *Second semester. Three credits.*

480 (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

203 (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 semester. Two credits. Fee \$5 per credit.*

205 (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: Mechanic Arts 203 or equivalent. First semester. One or two credits. Fee \$5 per credit.*

207 (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 203. 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. Fee to be arranged in accordance with the work undertaken.*

220 (20). WELDING AND HEAT TREATING. Shop practice in oxyacetylene and electric arc welding, stress relieving, annealing, and heat treating.

*First semester. One credit. Fee \$7:50.*

226 (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.

204 (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 102 and 242 and Physics 151 or 203. Second semester. Two credits. Smyth.*

206 (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 101 and Physics 203. *Second semester. Two credits.* Smyth.

341 (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 212, Chemistry 232. *First semester. Lectures, one hour; laboratory, three periods. Four credits.* 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.

356 (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 204. *second semester, Lecture, one hour; laboratory, two periods. Three credits.* Fee \$2.50. Palmer.

358 (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 204. *First semester. Two credits.* Smyth.

366 (66). ORE DRESSING. Lectures and recitations in ore dressing. Laws of crushing, sizing, and concentration of ores, including flotation.

*Prerequisite:* Metallurgy 204, Geology 212 and 214. Course to be taken only with Metallurgy 368. *Second semester. Lectures, two hours. Two credits.* Palmer.

461 (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 211 and Metallurgy 204 and 341. *First semester. Three credits.* Palmer.

462 (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 461 and 471. *Second semester. One credit.* Palmer.

368 (68). ORE DRESSING LABORATORY. A laboratory course to be taken only with Metallurgy 366. This course covers general practice in the use of the various machines used in ore dressing.

*Prerequisite:* Chemistry 232, Metallurgy 341. *Second semester. Laboratory, two periods. Two credits. Fee \$5. Palmer and Smyth.*

471 (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 341 and 366; Chemistry 232. *First semester. Lectures, two hours; laboratory, one period. Three credits. Fee \$5. Palmer.*

472 (72). ELECTROMETALLURGY. Lectures and recitations on electric smelting and the electrolytic processes involved in the metallurgy of the common and precious metals.

*Prerequisite:* Metallurgy 461 and 471. *Second semester. Two credits. Palmer.*

476 (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. Palmer or Smyth.*

479, 480, 481 (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 461 and 471. *Both semesters. Two credits. 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 (Chairman of Department); Assistant Professors CATOR, McELROY; M/Sgt. ELLIOTT; M/Sgt. JOHNSON; M/Sgt. STULL; M/Sgt. STONEBACK; 1st Sgt. GRADY; T/Sgt. CARRICK; S/Sgt. GARNETT.

Requirements for a minor in military science: Military 101-102 (2 credits), 201-202 (2 credits), and 14 additional credits in the department, including two for a six-week summer camp.

These descriptions supplement the announcement of the Department of Military Science and Tactics on page 75 of this Catalogue. The nature and scope of the courses are prescribed by the Department of the Army and the Department of the Air Force.

101-102 (1-2). **FIRST YEAR BASIC MILITARY.** Two hours drill and two hours conference per week. Required of all first-year men not specifically exempted.

Military 101 is not a prerequisite for Military 102. Military 101, *first semester. One credit.* Military 102, *second semester. One credit.* Fee \$20.

201-202 (3-4). **SECOND YEAR BASIC MILITARY.** Two hours drill and two hours conference per week. Required of all second-year men not specifically exempted.

Military 201 is not a prerequisite for Military 202. Military 201, *first semester. One credit.* Military 202, *second semester. One credit.* Fee \$20.

301-302 (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 301, 302, 303, 401, and 402 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 Department of the Army. Initial enrollments at midyear are not accepted.

*Prerequisites:* Military 101, 102, 201, and 202, or their equivalent. Military 301, *first semester. Three credits.* Military 302, *second semester. Three credits.*

303 (53A). **INFANTRY CAMP.** All who take Advanced Infantry training are required to attend a six-week summer camp immediately following Military 302.

The place and dates of attendance will be announced at a later date.  
*Prerequisites:* Military 301-302.

401-402 (53-54). **SECOND YEAR ADVANCED INFANTRY.** Two hours drill and three hours conference per week.

*Prerequisites:* Military 301, 302, 303. Military 401, *first semester. Three credits.* Military 402, *second semester. Three credits.*

311-312 (61-62). **FIRST YEAR ADVANCED AIR FORCE.** Two hours drill and three hours conference per week. These are the first two numbers of an elective group consisting of 311, 312, 313, 411, and 412, which must be taken in that order. Each applicant for enrollment in this group must be approved by the PMS&T, subject to limitations of annual quotas fixed by the Department of the Air Force.

*Prerequisites:* Military 101, 102, 201, and 202, or their equivalent. Initial enrollments at midyear are not accepted. Military 311, *first semester. Three credits.* Military 312, *second semester. Three credits.*

313 (63A). **AIR FORCE CAMP.** All who take Advanced Air Force training are required to attend a summer camp immediately following Military 312. The place, date of reporting, and duration of this camp will be announced at a later date.

*Prerequisites:* Military 311-312.

411-412 (63-64). SECOND YEAR ADVANCED AIR FORCE. Two hours drill and three hours conference per week.

*Prerequisites:* Military 311, 312, 313. Military 411, first semester. Three credits. Military 412, second semester. Three credits.

**MILITARY BAND.** The University Band functions as an ROTC Band by participating in ceremonies and other formations as needed. A student enrolled in Military 101, 102, 201, or 202, may substitute band training for the two weekly drill periods for either one of the two years of basic 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.

A (5). PRACTICAL MINING. Practical work in mining, metallurgy or geology 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.*

101 (1). INTRODUCTORY MINING. Lectures describing the various fields of employment in the mineral industries and the corresponding preparatory college courses, along with orientation advice on student procedure to gain the greatest benefit from his college work and college life.

*Freshman year. First semester. One credit. Carpenter.*

351 (51). EXCAVATION. Lectures and problems 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 203 and 204; Chemistry 101, 102, and 242. Junior year. First semester. Three credits. Smyth.

352 (52). MINE PLANT. Lectures and problems 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 203 and 204; Mathematics 341. Junior year. Second semester. Three credits. Carpenter.

461 (61). MINING METHODS. Lectures and problems on the

prospecting, development, and exploitation of mineral deposits, including underground metal mining methods in detail.

*Prerequisite:* Mining 351 and 352. *Senior year. First semester. Three credits.* Carpenter.

472 (72). MINE ADMINISTRATION. Lectures and problems 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.

*Prerequisite:* Mining 461. *Senior year. Second semester. Three credits.* Smyth.

474 (74). MINERAL INDUSTRY ECONOMICS. Lectures and problems 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 461. *Senior year. Second semester. Three credits.* Carpenter and Couch.

479, 480, 481 (79, 80, 81). MINING PROJECT. Two laboratory periods weekly devoted to individual problems in mining with stress 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 351 and 352. *Both semesters. Two credits each semester.* A charge based on equipment and material used. Carpenter.

## MUSIC

Professor POST (Chairman of Department); Assistant Professor TATE.

Requirements for a minor in music: Music 101 and 102 (2 credits), Music 203, 204, 303 or 304 (at least 4 credits), Music 301 and 302 (6 credits) and 6 additional credits in the department.

101-102 (1-2). MUSIC FUNDAMENTALS AND EAR TRAINING. Notation, terminology, intervals, major and minor scales. Learning to read music in unison and in four-part arrangements. The course is designed to furnish a foundation for musicianship and is recommended for all music students and teachers in the public schools.

*One credit each semester.* Tate.

103-104 (3-4). ELEMENTARY INSTRUMENTS. This course is set up primarily for students who are registered as Education or Music majors or minors. Students will become acquainted with the fundamental techniques in teaching various instruments such as clarinet, cornet, trombone, percussion, and string instruments.

This course will be helpful to students preparing to teach. Class instruction.

*One credit each semester. Tate.*

105-106. UNIVERSITY CHAMBER MUSIC ENSEMBLE. The work of this course will include music written for chamber ensemble as well as material arranged especially for the needs of the group. Students will prepare for at least one concert and assist in the presentation of larger works such as Handel's "Messiah," or Reno Civic Orchestra concerts. Open to students who are able to play string or wood-wind instruments.

*One credit each semester. Tate.*

107-108 (7-8). ELEMENTARY PIANO. Fundamentals of keyboard technique and experience in playing simple accompaniments and materials for classroom use. Restricted to approved education students and music minors. Class instruction.

*One credit each semester. Post.*

111-112 (11-12). UNIVERSITY SINGERS CLUB. Literature selected from the best choral works. The group will take part in the annual community presentation of the oratorio, "The Messiah," by Handel, accompanied by the orchestra. In addition, there will be one or more public concerts by the group, including an opera or operetta in concert form.

Open to all men and women students who pass the entrance tests.  
*One credit each semester. Post.*

113-114 (13-14). ELEMENTARY VOICE. Fundamentals of good tone production, practical technique in reading parts and the interpretation of songs. Restricted to approved education students and music minors.

*One credit each semester. Post.*

115-116 (15-16). RENO CIVIC ORCHESTRA. The orchestra assists in the performance of Handel's "Messiah" and other works for chorus and orchestra. In addition, one or more public concerts are given each year. Open to all men and women students who play orchestral instruments, subject to approval of the director.

*One credit each semester. Tate.*

117-118 (17-18). UNIVERSITY BAND. Band appearances include athletic events, rallies, civic and university parades, out-of-town trips with the football team, and one or more band concerts. Open to men and women students, subject to approval of the director. See Military for description of requirements and credits for men assigned to band as a substitute for military.

*One credit each semester. Tate.*

149 (5). TEACHING OF MUSIC. 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. Music materials, rote songs, records, radio, and methods of approach for the listening period. Same as Education 149.

*First semester. Two credits. Tate.*

203 (9). EIGHTEENTH CENTURY MUSIC. Music as found in the pre-Bach and eighteenth century classic period. Recordings of Gregorian chant, minstrelsy, folk-songs, the Netherland School and Palestrina. Bach, Handel, Gluck, Hayden, Mozart, and Beethoven. Historical and biographical background. Illustrations from the Carnegie University Library of records and scores.

Open to all students and visitors. No previous experience necessary.  
*First semester. Two credits. Tate.*

204 (10). NINETEENTH CENTURY MUSIC. 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.

Open to all students and visitors. No previous experience necessary.  
*Second semester. Two credits. Tate.*

301-302 (50-51). HARMONY. Fundamental triads, the Dominant seventh chord and inversions in both the major and minor modes. Ear training, keyboard drill, simple analysis, harmonization of melodies and modulation. Figured bass.

*Prerequisite: Music 101-102. Three credits each semester. Post.*

303 (57). RUSSIAN MUSIC. A survey of the music of Glinka, Rimsky-Korsakoff and the Russian "Five," Tschaikowsky, Scriabin, Rachmaninoff, Stravinsky, Prokofieff, Shostakovich, Khachaturian, and others, with illustrations from the recordings. Some historical and biographical background.

Open to all students and visitors. No previous experience necessary.  
*First semester. Two credits. Post.*

304 (58). MUSIC OF TODAY. Contemporary composers of all nations with special emphasis upon American music. Consideration of modern trends in both classical and popular fields. Music of Richard Strauss, Sibelius, Hindemith, Milhaud, Khachaturian, Williams, Holst, Schonberg, Chadwick, MacDowell, Carpenter, Copland, Harris, Gershwin and others, with illustrations from the recordings. Some historical and biographical background.

Open to all students and visitors. No previous experience necessary.  
*Second semester. Two credits. Post.*

305-306. UNIVERSITY CHAMBER MUSIC ENSEMBLE. For description see Music 105-106.

*One credit each semester. Tate.*

311-312 (54-55). UNIVERSITY SINGERS CLUB. For description see Music 111-112.

*One credit each semester. Post.*

315-316 (59-60). RENO CIVIC ORCHESTRA. For description see Music 115-116.

*One credit each semester. Tate.*

317-318 (63-64). UNIVERSITY BAND. For description see Music 117-118.

*One credit each semester. Tate.*

349 (65). HIGH SCHOOL MUSIC. Practical consideration of problems involved in various phases of high school music. Assembly singing, conducting, choral groups, instrumental groups, etc. Applicant must be a junior or senior with a minor in music or its equivalent. Active participation in band, orchestra, or chorus required. Same as Education 349.

*Second semester. Two credits. Tate.*

401-402 (52-53). ADVANCED HARMONY. Study of secondary sevenths, irregular resolutions of the seventh, ninth, eleventh, and thirteenth chords, mixed and altered chords, suspensions and other embellishments and modulation. Some original work. Continued ear training.

*Prerequisite: Music 301-302. Three credits each semester. Post.*

## PHILOSOPHY

Professor THOMPSON (Chairman of Department); Assistant Professor PRICE.

Requirements for a minor in philosophy: Psychology 201 (3 credits), philosophy 107 or 108 (3 credits), and 221 (3 credits), and 9 credits in the department in courses numbered 300 or above.

Requirements for a major in philosophy: Psychology 201 (3 credits), philosophy 107 or 108 (3 credits), and 221 (3 credits), and 15 credits in the department in courses numbered 300 or above.

The following courses are recommended, but not required, for majors and minors in philosophy: Psychology 361 and 401, Economics 201 and 202, Sociology 381, and Political Science 101 and 102.

101 (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. Price.*

107 (7). DEDUCTIVE LOGIC. Terms, definition, division, syllogism and fallacies. Text, lecture and exercises.

*Open to freshmen. First semester. Three credits.*



108 (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.*

221 (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, responsibility, and the doctrine of virtues.

*Open to sophomores. First semester. Three credits.*

222 (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.*

351 (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. Price.*

252 (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. Graduate credit given with consent of the instructor.*

353 (53). **PHILOSOPHICAL TENDENCIES OF THE PRESENT.** A review and criticism of the main tendencies of philosophical thought with reference to present social problems.

*Prerequisite:* One course in philosophy. *First semester. Two or three credits. Graduate credit given with consent of instructor. Price.*

354 (54). **PHILOSOPHICAL TENDENCIES OF THE PRESENT.** Special attention is given to absolutism, pluralism, pragmatism, and the philosophy of James.

*Prerequisite:* One course in philosophy. *Second semester. Two or three credits. Graduate credit given with consent of instructor. Price.*

455 (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. Graduate credit given with consent of the instructor. Price.*

461 (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 201. *First semester. Two to three credits according to work done. Graduate credit given with consent of the instructor.*

462 (62). PHILOSOPHY OF RELIGION. The meaning of 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 201. *Second semester. Two or three credits according to the work done. Graduate credit given with consent of the instructor.*

482 (82). PHILISOPHY 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. Graduate credit given with consent of the instructor.*

484 (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 201. *Second semester. Three credits. Graduate credit given with consent of the instructor. Price.*

499 (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. Graduate credit given with consent of the instructor. Price.*

## PHYSICAL EDUCATION

### Men

Professor MARTIE (Chairman of Department); Associate Professor SCRANTON; Mr. BROTEN.

Requirements for a minor in physical education: Courses 101-102 (1 credit), 201-202 (1 credit), 110 (1 credit), 210 (3 credits), 301 (1 credit), 340 (2 credits), and 8 credits in the department in courses numbered above 300.

Requirements for a major in physical education: Courses 101-102 (1 credit), 201-202 (1 credit), 110 (1 credit), 210 (3 credits), 301 (1 credit), 310 (2 credits), 340 (2 credits), 410 (2 credits), 441 (2 credits), 452 (3 credits), and 8 additional credits in the department in courses numbered above 300. Also Physics 101 and 102 (4 credits), Zoology 101 and 211 (7 credits), Psychology 201 (3 credits), and English 111 and 112 (4 credits).

101 (1). DEVELOPMENTAL EXERCISES. Physical examinations are required at the beginning of the 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 periods per week. One-half credit. Scranton.*

102 (2). DEVELOPMENTAL EXERCISES. Continuation of course 101 with addition of calisthenics and light apparatus.

*Second semester. One-half credit. Scranton.*

201 (3). ADVANCED EXERCISES. Practical work consists in mat work, tumbling, heavy apparatus using long and short horse and buck.

*Sophomore year (required). First semester. Two periods per week. One-half credit. Broten.*

202 (4). ADVANCED EXERCISES. Continuation of course 201. Heavy apparatus consisting of work with parallel bar, low and high bar, ladder and stall bars.

*Second semester. One-half credit. Broten.*

NOTE: By consent of the department chairman, a student may elect any of the following sports as a substitute for the practical work in courses 101, 102, 201, 202: Football, basketball, track, tennis, cross-country, boxing, wrestling, tumbling.

103-104, 203-204 (5-8). SPECIAL CORRECTIVE EXERCISES. Corrective work for all whose physical examination show they are unfitted to take the required physical education.

*One-half credit each semester up to and including four semesters. Martie.*

110. GENERAL HYGIENE. Principles of health promotion, individual hygiene, disease prevention and control.

*Either semester. One credit. Locke.*

210 (53). FIRST AID AND TREATMENT OF ATHLETIC INJURIES. The first six weeks will be devoted to the Red Cross First Aid Course, successful completion of which will entitle the student to a Red Cross Certificate. The remainder of the course will deal with prevention and treatment of common athletic injuries.

*First semester. Three credits. Martie.*

301 (9). APPARATUS AND TUMBLING. Advanced exercises for increasing skills on the mats, bars, horse, and springboard.

*First semester. One credit. Broten.*

310 (60). INTRODUCTION TO PHYSICAL EDUCATION AND HEALTH. Consideration of aims and objectives of physical education and health; the principles underlying the curriculum, standards for selection of activities and criteria for judging the work.

*Second semester. Two credits. Broten.*

320 (51). FOOTBALL IN THEORY AND PRACTICE. A course of lectures and practical demonstrations for those who may wish to coach, or for those who are interested in and wish a more intimate knowledge of the game.

*First semester. One lecture and one laboratory per week. Two credits. Scranton.*

321 (52). BASKETBALL IN THEORY AND PRACTICE. A course of lectures and practical demonstrations.

*Second semester. One lecture and one laboratory per week. Two credits. Martie.*

322 (54). TRACK AND FIELD ATHLETICS. Lectures and demonstrations of each track and field event.

*Second semester. One lecture and one laboratory per week. Two credits. Scranton.*

325 (57). OFFICIATING MAJOR SPORTS. A careful study of the rules of football, basketball, and track with interpretations, methods of officiating, and characteristics of officials.

*First semester. Two credits. Scranton.*

340 (10). PHYSICAL EDUCATION METHODS. A teachers' course in physical education. To develop squad leaders and to assist men to qualify for a State Certificate to teach physical education.

*Second semester. One lecture and two laboratory periods per week. Two credits. Scranton.*

410. SCHOOL AND COMMUNITY HEALTH. A study of school sanitation, health of the school child, community hygiene, and public health. Physical education and its relation to health.

*First semester. Two credits. Broten.*

430 (62). PSYCHOLOGY OF COACHING. Emphasizes the application of practical psychology in all forms of athletic activities. Illustrations of applied psychology are collected and analyzed as to values in the relations to specific forms of athletics.

*Second semester. Two credits. Martie.*

431 (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 reference to the character training situations that arise in the physical education field.

*Second semester. Two credits. Martie.*

440 (55-65). RECREATION LEADERSHIP AND PLAYGROUND ADMINISTRATION. A comprehensive study of recreation leadership and playground administration with special emphasis given to group games, and the organization of programs for all ages in the community center building and the playground. An analysis of municipal recreation needs.

*Second semester. Three credits. Broten.*

441 (58). See Education 341.

450 (56). PHYSICAL EDUCATION MEASUREMENTS. A survey of the field of physical measurements. Methods of measuring improvement in coordination, skills and strengths.

*Second semester. Two credits. Martie.*

451 (59-61). PHYSICAL DIAGNOSIS AND CORRECTIVE GYMNAS-  
TICS. Methods of detecting defects in structural and organic  
development and function. Exercises for correction of these  
defects.

*First semester. Three credits. Martie.*

452 (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. Laboratory experi-  
ments deal with simple observations of respiration, circulatory,  
nervous and metabolic adjustments to physical exercise.

*First semester. Three credits. Martie.*

## PHYSICAL EDUCATION

### Women

Professor SAMETH (Chairman of Department); Assistant Pro-  
fessor RUSSELL; Miss VAN GAASBEEK, Miss PRICE.

Physical Education courses required for a minor: 163(3), 164 (2),  
263, 264, 265 (3), 266 or 267 (1), 269 (3), 364 (2), and 4 credits in this  
department numbered 300 or above, also Zoology 101 and 211.

Physical Education courses required for a major: 163 (3), 164 (2),  
263, 264, 265 (3), 266 or 267 (1), 269 (3), 363 (2), 364 (2), 440 (3),  
452 (2), 464(3), and 3 credits in this department numbered 300 or above,  
also Zoology 101, 211, and 346.

Recommended Electives:

(a) Courses which meet University requirements toward gradua-  
tion: Chemistry 101, 242, Economics 107 or 110, Physics 101-102.  
Psychology 121, 201, 241, 361, Zoology 322, 355.

(b) Others: Art 105, Education 183, 317, English 111-112, Home  
Economics 334, 368, 475-476, Music 101-102.

Students may direct their major toward specialization in dance or in  
sports. For allied majors and minors, consult chairman of department  
concerned.

161 (1). FRESHMAN ORIENTATION (required). Team sports,  
individual and dual activities, and rhythmic activities.

*Three periods. One credit.*

162 (2). FRESHMAN ORIENTATION (required). Continuation  
of 161.

*Three periods. One credit.*

163 (29). FIRST-AID AND HEALTH IN THE HOME, SCHOOL AND  
COMMUNITY (formerly 265).

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.*

164 (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.*

261 (3). SOPHOMORE ACTIVITIES (required). The student may select any activity offered. Activities usually offered when facilities are available are bowling; conditioning; dance (folk, modern, social); golf; individual and dual sports (archery, badminton, etc.); remedial work; roller skating; swimming and life saving; and team sports.

*Prerequisite: Physical Education 161-162. Two periods. One-half credit.*

262 (4). SOPHOMORE ACTIVITIES (required). Continuation of 261.

*Two periods. One-half credit.*

263, 264, 265 (21, 22, 23). TECHNIQUES FOR MAJORS AND MINORS. Practical work with sections of Physical Education 161 and 162.

*Two laboratories and one lecture. Three semesters. Acceptable toward graduation instead of Physical Education 161, 162, 261, 262, if a student gives evidence of ability to do advanced work. One credit each semester.*

266 (11). FOLK DANCES, GAMES, AND CREATIVE ACTIVITIES. For kindergarten, first and second grades.

*Two periods. One credit. Not offered in 1948-1949.*

267 (12). FOLK DANCES, GAMES, AND CREATIVE ACTIVITIES. For Intermediate and Secondary Grades.

*Two periods. One credit. Not offered in 1948-1949.*

268. MODERN DANCE. (Intermediate). Modern dance, with emphasis on composition; also practical experience in production.

*Prerequisite: Beginning dance, selected as a sophomore activity. Two periods per week. One credit.*

269 (35). KINESIOLOGY. Function of the neuromuscular system in its relation to posture, movement, and deviations from normal, with specific 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 211. First semester. Two lectures and one laboratory. Three credits.*

361, 362, 461, 462 (25, 26, 27, 28). ACTIVITIES. For those who wish to improve their skills in any activity offered.

*One-half credit each semester.*

263 (31). MODERN DANCE. (Advanced.) See 268.

364 (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.*

365 (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 347 are identical.)

*Prerequisite: Physical Education 164. Two lectures. Two credits.*

463 (50). HISTORY AND DEVELOPMENT OF THE DANCE. A study of dance forms of the past and present and their relationship to the other arts.

*Prerequisite: Physical Education 268. Three lectures. Three credits.*

464 (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.*

465 (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.*

501-502 (101-102). 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; Assistant Professor HANSEN; Mr. INMAN, Miss FERGUSON.

Requirements for a minor in physics: Physics 203-204 (8 credits), 205-206 (4 credits), and 6 additional credits in the department in courses numbered 300 or above.

Requirements for a major in physics: A. Physics 203-204 (8 credits).

205-206 (4 credits), and 15 additional credits in the department in courses numbered 300 or above.

B. Other requirements: General Chemistry, Calculus (to be taken concurrently with Physics 203-204), Mechanics, Differential Equations, and German. Students who are not primarily interested in preparing themselves for a career in Physics may, with the consent of the chairman of the department, substitute other courses for those listed under B.

Suggested outline of courses for the first two years:

<i>First Year</i>			<i>Second Year</i>		
Course	Credit		Course	Credit	
	1st sem.	2d sem.		1st sem.	2d sem.
Military 101-102.....	1	1	Military 201-202.....	1	1
Physical Edu. 101-102.....	$\frac{1}{2}$	$\frac{1}{2}$	Physical Edu. 201-202.....	$\frac{1}{2}$	$\frac{1}{2}$
English 101-102.....	3	3	Mathematics 231-232.....	3	3
Mathematics 110.....	3	..	Physics 203-204.....	4	4
Mathematics 102.....	2	..	Physics 205-206.....	2	2
Mathematics 140.....	..	3	German 101-102.....	5	5
Chemistry 101-102.....	4	2			
Social Science.....	2	6			
	<hr/>			<hr/>	
	15 $\frac{1}{2}$	15 $\frac{1}{2}$		15 $\frac{1}{2}$	15 $\frac{1}{2}$

101-102 (9-10). INTRODUCTORY PHYSICS. A nonmathematical course designed to give the student an understanding of some of the basic principles of physics.

*Two credits each semester.*

107 (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.

*Three credits. Two scheduled periods and one evening hour to be arranged. Either semester.* Blair.

115-116 (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. *Three credits each semester.*

117-118 (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. This is especially



important under war conditions when the flier is often unable to obtain weather reports by radio. 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.

*Three credits each semester.*

119 (19). **HOUSEHOLD PHYSICS.** A course in general physics for students in Home Economics, with special emphasis on practical applications in the home.

*Two lectures and two laboratory periods per week. Four credits.*

151-152 (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.

*Prerequisite:* Plane geometry. A knowledge of trigonometry is desirable. *Three credits each semester.*

153-154 (1b-2b). **GENERAL PHYSICS LABORATORY.** A laboratory course to make the student an intelligent observer of natural phenomena. To accompany Physics 151-152. 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.

*Prerequisites:* Plane geometry. A knowledge of trigonometry is desirable. *One credit each semester. Fee \$3.*

203-204 (3-4). **GENERAL PHYSICS FOR ENGINEERS.** Mechanics and heat, sound and light, and electricity and magnetism. Lectures and recitations are fully illustrated by experimental demonstrations at the lecture table and by problems.

*Prerequisites:* Plane, solid, and analytic geometry, and trigonometry. *Four credits each semester.*

205-206 (5-6). **PHYSICAL MEASUREMENTS.** Experimental work of distinctly quantitative character is done in mechanics and heat, sound and light, and electricity and magnetism. The methods selected involve fundamental physical principles, and illustrate their most important applications.

*Prerequisites:* Plane, solid, and analytic geometry, and trigonometry. *One or two credits each semester. Fee \$1.50 per credit hour.*

357-358 (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.

*Prerequisites:* General physics, differential and integral calculus. *Two credits each semester. Fee \$3.*

359-360 (59-60). **HEAT, THERMODYNAMICS, AND KINETIC THEORY.** Lectures and recitations. Many of the more difficult

subjects merely touched upon in general physics will be fully treated.

*Prerequisites:* General physics, differential and integral calculus. *Two credits each semester.* Graduate credit given with the consent of the instructor.

361-362 (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, prisms, prism spectra, Doppler's principle and its applications, diffraction, interference, the theory of the grating, double refraction and polarization.

*Prerequisites:* General physics, differential and integral calculus. *Two credits each semester.* Graduate credit given with the consent of the instructor.

363 (63). PHYSICAL OPTICS. Laboratory exercises in connection with course 361-362.

*Two credits.* Fee \$3. Graduate credit given with the consent of the instructor.

365-366 (65-66). HISTORY OF PHYSICS. Lectures and recitations. Preparation of reports and discussion of assigned topics by members of the class.

*Prerequisites:* General Physics. *Two credits each semester.* Graduate credit given with the consent of the instructor.

368 (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. Graduate credit given with the consent of the instructor.

375-376 (75-76). GLASSBLOWING. A laboratory course of instruction in methods of making simple glass apparatus.

*One credit.* Fee \$6.

377-378 (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.

*Prerequisites:* General Physics, differential and integral Calculus. *Two credits each semester.* Fee \$3. Graduate credit given with consent of instructor.

401-402 (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. *One credit. One three-hour computing period per week.* Graduate credit given with the consent of the instructor.

471-472 (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.

*Prerequisites:* General physics, and calculus. *Two credits each semester.* Graduate credit given with the consent of the instructor.

473-474 (73-74). **ELECTRICITY AND MAGNETISM.** Introduction to the mathematical theory of electricity and magnetism. Solution of problems by exact reasoning from fundamental principles.

*Prerequisites:* General physics, differential and integral calculus. *Two credits each semester.* Graduate credit given with the consent of the instructor.

493-494 (103-104). **THESIS WORK.** And all special laboratory work not in the courses announced above.

*Either semester. Credits to be arranged. Fee \$1.50 per credit.* Graduate credit given with the consent of the instructor.

501-502. **THEORETICAL PHYSICS.** An introduction to the more advanced mathematical analysis as applied to general physical problems.

*Prerequisites:* General physics, differential and integral calculus and differential equations. *Two credits each semester.* Undergraduates may be admitted with the consent of the instructor.

### 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 201 (3 credits), 231 (2 credits), 361 (3 credits), 401 (3 credits), and 7 additional credits in the department. Students majoring in economics or business administration may substitute Psychology 381, 411, 382, or 391 for Psychology 231.

Requirements for a major in psychology: Psychology 201 (3 credits), 205 (2 credits), 361 (3 credits), 441 (3 credits), 411 (3 credits), 415 (2 credits), 401 (3 credits), 408 (2 credits), plus 6 hours, 2 of which shall be numbered above 300.

Recommended elective courses: It is recommended that students majoring in psychology elect courses also in philosophy, biology and sociology. Students who expect to use psychology professionally will find it almost impossible to do so without training in statistics.

Courses particularly recommended are Philosophy 101, Introduction to Philosophy; Philosophy 180, Inductive Logic; Mathematics 220, Elementary Statistics; Economics 361; Statistical Methods; Sociology 201, Principals of Sociology; Sociology 102, Social Problems; Zoology 350, Genetics; Zoology 355, Evolution; and Zoology 364, Embryology. Students who expect to work toward a Ph.D. degree after graduation should develop a reading knowledge of French and German.

121 (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, social and emotional adjustment, the measurement of personality traits and aptitudes, vocational choice and leadership.

*Either semester. Two credits. Irwin, Wright.*

201 (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 with the highest fifth in their mental test score.

*Prerequisite to all other courses in the department except Psychology 121. Either semester. Three credits. Young, Irwin, Wright.*

205 (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 201. Second semester. Two credits. Irwin.*

221 (6). EDUCATIONAL PSYCHOLOGY. A consideration of the applications of psychology to educational problems.

*Prerequisite: Psychology 201. Second semester. Three credits. Irwin.*

231 (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 201. Second semester. Two credits. Young.*

241 (40). MENTAL HYGIENE. A consideration of the principles of psychology in their relationship to mental health and efficiency.

*Prerequisite: Psychology 201. Either semester. Three credits. Young.*

361 (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.

*Prerequisite: Psychology 201. First semester. Three credits. Irwin.*

362 (52). **PSYCHOLOGY OF PROPAGANDA AND PUBLIC OPINION.** This is a socio-psychological study of (1) the psychological basis of public opinion, (2) the techniques of leadership, (3) the forces which mould public opinion, and (4) quantitative techniques in the measurement of attitudes and the effects of publicity campaigns.

*Prerequisite:* Psychology 201. *Second semester. Two credits.* Irwin.

371 (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 workers 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 201. *First semester. Two credits.* Irwin.

375 (70). **MARRIAGE, HOMEMAKING, AND DIVORCE.** A presentation of the psychological principles involved in these three types of social adjustment.

*Prerequisite:* Psychology 201. *Second semester. Two credits.* Young.

381 (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 201. *First semester. Alternate years, starting 1942-1943. Two credits.*

382 (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 201. *First semester. Alternate years, starting 1943-1944. Two credits.* Irwin.

391 (64). **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.

*Prerequisites:* Psychology 201. *Second semester. Alternate years, starting 1945-1946. Two credits.*

401 (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 201. *Either semester. Three credits.* Young.

405 (53). PSYCHOLOGY OF PERSONALITY. A consideration of the nature, development and evaluation of personality.

*Prerequisite:* Psychology 201. *First semester. Two credits.* Young.

408 (63). SYSTEMATIC PSYCHOLOGY. A study of the historical background of psychology and of the various schools of psychological thought.

*Prerequisite:* Psychology 201. *First semester. Two credits.* Young.

411 (59). MENTAL, PERSONALITY, AND VOCATIONAL APTITUDE TESTS. Lectures, laboratory, practice and 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, and social service work.

*Prerequisite:* Psychology 201. *First semester. Three credits.* Irwin.

415 (60). COMPARATIVE PSYCHOLOGY. The genetic history of consciousness and behavior patterns in animals, savages and civilized human beings.

*Prerequisite:* Psychology 201. *Second semester. Two credits.* Young.

441 (55). ABNORMAL PSYCHOLOGY. A study of the abnormal mind, aetiology of mental disorders, neuroses and psychoses, with some attention to therapeutic procedures.

*Prerequisites:* Psychology 201. *First semester. Three credits.* Young.

499 (101). 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.

501. MASTER'S THESIS.

*Either semester.* Young, Irwin.

#### SOCIOLOGY

(See Economics, Business, and Sociology)

#### SPANISH

(See Foreign Languages)

#### SPEECH

(See English)

#### ZOOLOGY

(See Biology)

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# SUMMER SESSIONS OF UNIVERSITY

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## FIRST TERM

June 12 through July 16, 1948

## SECOND TERM

July 17 through August 20, 1948

## 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.

Usually the student may enroll for a maximum of six credit hours of work in either of the Five-Week Sessions. 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.

#### 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 PLACEMENT

Teachers are eligible for teacher placement service after ten 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 five-week sessions is \$20 for Nevada students, \$35 for out-of-State students. 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.



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# Public Services

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## THE NEVADA AGRICULTURAL EXPERIMENT STATION

### STAFF

- JOHN O. MOSELEY, M.A., A.B., (Oxon.) A.M., (Oxon.) 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. SCHMITZ, 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.,<sup>1</sup> B.S., Assistant Economist in Range Management.
- EDWARD RECORDS, V.M.D., In Charge of Veterinary Science.
- HENRY JOHNSON, Assistant in Range Management.
- 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.
- WILLIAM A. GOODALE, B.S., Assistant in Soils Research.
- HOWARD SOMMERS, Assistant in Soils Research.
- LOIS CAZIER, Clerk Technician in Soils Research.
- GEORGE HARDMAN, M.S., Chief in Irrigation and Agronomy.
- HOWARD G. MASON, B.S., Estimating and Planning.
- F. B. HEADLEY, Chief in Farm Development.
- RAY K. PETERSEN, Horticulturist.
- J. E. CHURCH, Ph.D., Chief in Meteorology.
- CARL ELGES, JR.,<sup>1</sup> M.S., Assistant 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 1947-1948 it received \$2,962.52 from the Federal Bankhead-Jones Fund. The total of these Federal appropriations for the current fiscal year will be \$92,962.52. 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.

<sup>1</sup>Absent on leave.

The Nevada Experiment Station has chosen problems for study in six 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.

VI. Production and marketing of tomato transplants.

For 1947-1948 the active project list of the Station is as follows:

#### RANGE MANAGEMENT—

Project 22.—Adams Fund. *Poisonous Range Plants (Halogeton glomeratus). A Desert Plant Poisonous to Sheep in Nevada.* 1946—Continuous. Project Leader, C. E. Fleming, assisted by M. R. Miller, Dr. L. R. Vawter, and Walter Neilson. In cooperation with 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, Dubois, Idaho.

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 52—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 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 67—Purnell Fund. *The Feeding Value of Meadow Hay for Wintering Beef Cattle as Influenced by the Variation in Nutritive Content When Harvested at Different Stages of Plant Maturity*. 1947—Continuous. Project Leader, Mark A. Shipley, assisted by Henry Johnson and M. R. Miller.

Project 68—Purnell Fund. *Cost of Producing An Animal Unit Month of Forage from Range Seeding Operations as Evaluated by Density and Volume Estimates*. 1947—Continuous. Project Leader, Mark A. Shipley, assisted by Henry Johnson and M. R. Miller.

#### 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—Purnell 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, assisted by H. G. Mason. 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 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. *Experiments to (1) Compare Large and Small Turkeys of the Same and Different Varieties with Respect to Rate and Economy of Gains and (2) to Determine Effect of Size and Conformation on Edible Meat.* 1933-Continuous. Revised 1947. Project Leader, F. B. Headley. In cooperation with Bureau of Plant Industry, U. S. D. A., Newlands Field Station, Fallon, Nevada.

#### VETERINARY SCIENCE—

Project 63—Adams Fund. *Artificial Cultivation of Anaplasma Marginalis.* 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.

#### RESEARCH AND MARKETING ACT—

Project 69—Research and Marketing Act. *Possible Conservation of Range Forage as Based Upon Daily Weight Gains of Cattle on Summer Range.* 1947-Continuous. Project Leader, Mark A. Shipley, assisted by Henry Johnson and M. R. Miller.

Project 70—Research and Marketing Act. *Production and Marketing of Tomato Transplants in Southern Nevada.* 1947-Continuous. Project Leader, M. R. Miller, assisted by V. E. Spencer.

Project 71—Research and Marketing Act. *Adjustments in Marketing of Ranch and Range Cattle.* 1947-Continuous. Project Leader, Howard G. Mason.

## 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.

Board of County Commissioners.

## 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.  
 CLARENCE E. BYRD, M.A., Administrative Assistant to the Dean of Agriculture.  
 MARIE GROSSHOLZ, Chief Clerk.  
 A. L. HIGGINBOTHAM, A.M., Extension Editor.  
 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.  
 I. E. CLINE, M.S., Extension Marketing Specialist.  
 WILLIAM S. HAYES, B.S., Extension Forester.  
 A. J. REED, B.S., Extension Dairyman.  
 OTTO R. SCHULZ, B.S., Extension Soil Conservationist.  
 ELDON E. WITTEWER, Ph.D., Extension Agricultural Economist.  
 LEONARD A. ANKER, B.S., District Extension Agent, Douglas and Ormsby Counties.  
 WILLIAM N. HELPHENSTINE, B.S., District Extension Agent, White Pine and Eureka Counties.  
 J. KIRK DAY, B.S., District Extension Agent, Humboldt and North Lander Counties.  
 District Extension Agent, Esmeralda and Nye Counties.  
 JAMES G. JENSEN, B.S., Assistant District Extension Agent, Churchill and Southern Lander Counties.  
 ARCHIE R. ALBRIGHT, B.S., County Extension Agent, Washoe County.  
 EDWARD C. REED,<sup>1</sup> M.S., County Extension Agent, Washoe County.  
 FERREN BUNKER, B.S., County Extension Agent, Lincoln County.  
 FRED BATCHELDER, B.S., County Extension Agent, Pershing County.  
 LOUIE A. GARDELLA, B.S., County Extension Agent, Lyon County.  
 MARK W. MENKE, B.S., County Extension Agent, Elko County.  
 JOHN H. WITTEWER, County Extension Agent, Clark County.  
 CHARLES R. YORK, B.S., County Extension Agent, Churchill County.  
 DONALD D. DROWN, B.S., Assistant County Extension Agent, Elko County.  
 WARREN WELSH, Assistant County Extension Agent, Lyon County.  
 OLIVE C. MCCracken, B.S., District Extension Agent, Douglas, Ormsby, and Storey Counties.  
 J. HAZEL ZIMMERMAN, B.S., District Extension Agent, Clark and Lincoln Counties.  
 MADGE ELDER, B.S., County Extension Agent, Lyon County.  
 LENA BERRY, B.S., County Extension Agent, Churchill County.  
 M. GERTRUDE HAYES, B.S., County Extension Agent, Washoe County.  
 ROSE M. SPEZIA, B.S., County Extension Agent, Elko County.

<sup>1</sup>Absent on leave.

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 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 Community Centers, and Boys and Girls 4-H Clubs.

Besides the regular extension program outlined above, extension agents serve as executive secretaries of County Agricultural Conservation committees.

County 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 county and district agents. All seventeen Nevada counties have county extension work now extended to them. Fifteen counties have cooperative agreements between the Agricultural Extension Service and the respective Boards of County Commissioners pursuant to Nevada Statutes, Chapter 94, Sections 1-9, approved March 20, 1947.

## 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.  
 VINCENT P. GIANELLA, Ph.D., Geologist.  
 CLAUDE W. HAMMOND, B.S., Chemist.

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.  
 FRED L. HUMPHREY, Geologist.  
 CARL STODDARD, Mining Engineer.  
 B. F. COUCH, 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.

## 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.  
 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.

SHIRLEY M. AVANSINO, 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 BRANCH, MINING DIVISION

#### STAFF

A. C. JOHNSON, Chief.  
 RUSSELL R. TRENGOVE, Mining Engineer.  
 WILLMAR T. BENSON, Mining Engineer.  
 EDWARD J. MATSON, 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. WIEDEL, 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

J. B. ZADRA, Supervising Engineer.  
ANDREW C. RICE, Ph.D., Chemist.  
CLYDE E. ARRINGTON, M.S., Analyst.  
CHARLES L. HILL, M.S., Chemist.  
HOWARD L. HEINAN, Chemist  
RAYMOND S. LAMBERT, Chemical Analyst.  
A. L. ENGEL, Metallurgist.  
HARRY F. MCCRAY, Chief Clerk.  
THERESA V. CAPRIO, Clerk

United States Geological Survey, Geophysical Section,  
C. H. SANDBERG, *Geophysicist in Charge.*



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.

Thomas D. Bowman  
Beverly L. Brown  
Mary Lou Brunton  
Irving Crawford

Gordon Lea Hayes  
Hans Raymond Jepsen  
Edwin Juinger  
Shirley Macauley

The GODWIN SCHOLARSHIP IN MUSIC, \$50.  
Richard Pursel

The GRAND ARMY OF THE REPUBLIC SCHOLARSHIP, \$50.  
Moray Black

The HERD AND SHORT SCHOLARSHIP, \$100.  
Herman Adams

The MRS. CARL OTTO HERZ SCHOLARSHIP in Electrical Engineering, \$50.  
Dan Rice

The CARRIE BROOKS LAYMAN MEMORIAL SCHOLARSHIP, \$200.  
Dorothy Thomas

The WILLIAM S. LUNSFORD SCHOLARSHIP in Journalism, \$100.  
Paul Weaver

The HONORABLE WILLIAM O'HARA MARTIN AND LOUISE STADTMULLER MARTIN SCHOLARSHIP in History and Political Science, \$50.  
Helen Hackett

The ROSE SIGLER MATHIEWS SCHOLARSHIPS, \$100.

Norma Jean Carruth  
John L. Chamberlin

Charles E. Geyer  
Albert E. Richardson

The NEVADA FEDERATION OF MUSIC SCHOLARSHIP, \$50.  
Constance Burkholder

The EMPORIUM OF MUSIC SCHOLARSHIP, \$100.  
Barney Childs

The GRAND LODGE OF THE INDEPENDENT ORDER OF ODD FELLOWS SCHOLARSHIPS, \$75.

Francis Escobar

Lyman Schwartz

The PREMEDICAL-PRENURSING SCHOLARSHIP, \$100.  
Herbert Walter

The REGENTS' SCHOLARSHIPS, \$50.

James Morris  
Edward G. Reed

Maclin B. Summers  
Ernest Wilson

Bonnie Yturbide

The ROTARY CLUB OF RENO SCHOLARSHIP, \$100.  
Norma Moody

The SEARS ROEBUCK AGRICULTURE FOUNDATION SCHOLARSHIP, \$200.  
Michael Galli

The SEMENZA SCHOLARSHIP in Economics, Business and Sociology, \$100.

John A. Patti

- The RAYMOND SPENCER SCHOLARSHIP in Electrical Engineering, \$150.  
Harry J. Kaul
- The MARY ELIZABETH TALBOT MEMORIAL SCHOLARSHIP in Mathematics,  
\$300.  
Philip Whitmer
- The RITA HOPE WINER MEMORIAL SCHOLARSHIP, \$50.  
Elaine Van Meter
- The ASSOCIATED WOMEN STUDENTS' SCHOLARSHIP, \$25.  
Elinore McCray

### SPECIAL PRIZES AND AWARDS

The AMERICAN ASSOCIATION OF UNIVERSITY WOMEN HONORARY MEMBERSHIP AWARDS.

Helen Brania  
Dace Ricketts  
Virginia Olesen

The GINSBURG JEWELRY COMPANY AWARD of a fine watch.  
Bonnie Yturbide

GOVERNOR'S MEDAL FOR MILITARY PROFICIENCY.  
Gordon Lea Hayes

The KLUTE FOREIGN LANGUAGES PRIZES, \$50.  
Marilou Ferguson  
Adele Marsh  
Rose Marie Nannini  
Martha Schultz

The FRENCH MEDAL.  
Rose Marie Nannini

The SCHOLARSHIP KEY OF ALPHA IOTA CHAPTER OF PHI ALPHA THETA.  
Wilburta Flavin

The HENRY ALBERT SENIOR PUBLIC SERVICE PRIZES FOR SCHOLARSHIP,  
\$37.50.

Rose Marie Nannini  
Hans Wolfe

Elected to PHI KAPPA PHI.

Carol Ruth Anderson	Patricia Ireland
James Borge	Mrs. Effie McQueen
Zina Coe	Barbara Olesen
Virginia Cole	Jane Perkins
Angeline Constantinidou	Dorothy Thomas
Gene William Donaldson	Patricia Ussery
Jack Ryan Fulton	Carol Wager
Bert Hildebrand	Ernest Wilson

### HONOR ROLL OF THE SENIOR CLASS

John Cantlon	Rose Marie Nannini
Merton Domonoski	Virginia Olesen
Donald Drown	Evelyn Payne
Lyman Earl	John Phillips
Marilou Ferguson	Harvey Tidball
Alice Hanssen	Robert Whittemore
Vaughn Marker	Noel Willis

Adele Marsh

## HONOR ROLL FOR THE FOUR-YEAR COURSE

Wilburta Flavin  
Adele Marsh

Rose Marie Nannini  
Virginia Olesen

## GRADUATES

Diplomas and Degrees were awarded on Commencement Day,  
June 9, 1947, as follows:

## MASTER OF SCIENCE

James Patrick Coughlin (Aug. 30, 1946)  
(Bachelor of Science, University of San Francisco, 1944)

## BACHELOR OF ARTS

Thomas Frederick Allard	*Grace Alice Kincaid
*Marilyn Delphine Amodei	Robert Peter Laxalt
Richard Dudley Armstrong	Pauline Leveille
John B. Aymar	Madeleine Louise Maestrètti
(Jan. 31, 1947)	Gloria Millicent Mapes
Edward F. Beaupeurt	‡Adelè Mary Marsh
(Jan. 31, 1947)	Tosca Carolyn Masini
Beverly Nora Bony	Rachel Ann McNeil
‡Robert Bruce Bowen	Addison A. Millard
(Aug. 30, 1946)	Florene Miller
Helen Brania	Barbara Ruth Mills
Robert Donald Bruce	Thomas Hugh Montgomery
(Aug. 30, 1946)	William Joseph Moran
James Weatherby Coleman, Jr.	(Aug. 30, 1946)
Rex Garrett Daniels	Edwin Charles Mulcahy
(Aug. 30, 1946)	(Jan. 31, 1947)
Carl Albert Digino, Jr.	‡Rose Marie Nannini
Max Weston Dodge	‡Virginia Lee Olesen
Mary Honora Donlin	Harry Dennis Paillé
(Aug. 30, 1946)	‡Evelyn Aileen Payne
Duncan Macdonald Dorsey	John William Phillips
Marilyn Elizabeth Dugan	Carol Hartley Riley
Floyd Leonard Edsall	Ellen Vale Riley
(Jan. 31, 1947)	*Gloria Dorothy Rosaschi
Francis Escobar	Lyle Anthony Roush
‡Marilou Ferguson	(Jan. 31, 1947)
‡Wilburta Kathryn Amelia Flavin	James A. Schultz
John M. Hattala	Martha A. Schulz
(Jan. 31, 1947)	Dorothy Katherine Sewell
John Charles Hawkins	‡Helen Catherine Shaw
John Francis Heher	Francis Beatrice Sumner
*Estella Marie Hicks	John William Sweatt
Anita Margaret Hincelot	Harvey Eugene Tidball
Mary Lou Hovenden	James Patrick Tierney
Elinor Ruth Jensen	Damon Millard Tranter
John Miller Jensen	*Ellen M. Turnquist
(Aug. 30, 1946)	Frances Rose Ullom
Anna May Kemper	(Jan. 31, 1947)
Eileen Marjorie Kerr	Esther Golick Vacchina

*Bachelor of Arts—Continued*

Elizabeth Beatrice Walker	*Robert G. Whittemore, Jr.
Betty May Waugh	Virginia Anne Woodbury
Leslie Harvey Whittemore	(Jan. 31, 1947)
Elizabeth Alice Zang	

## BACHELOR OF SCIENCE

Shirley Marolyn Campbell	‡Alice Hanssen
John E. Cantlon	William John Hughs
Raylyn Collins Carey	Doris Hendrick Mastroianni
(Jan. 31, 1947)	Thomas Jarvis Trelease
Jean Mary Clawson	Jane Douglass Willcox
John Raymond Gent	Hans Robert Wolfe
Fredrick Wood, Jr.	

## BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

George Morton Dickerson	Arthur L. Rockwell, Jr.
(Aug. 30, 1946)	*Virginia Marianne Wells

## NORMAL SCHOOL DIPLOMA

Mary Alta Allum	Rosa Elizabeth Campbell
Rachel Genevieve Bailey	Dorothy L. Delmue
Marjorie Agnes Bieroth	Olive Claire Haviland
Laura Marjean Campbell	Zella Leavitt
(Aug. 30, 1946)	

## BACHELOR OF SCIENCE IN AGRICULTURE

Donald Glen Bagley	*Kenneth Neil Stewart
James Robert Collins	(Jan. 31, 1947)
Merton Elzwick Domonoske	Leroy Streshley
Donald D. Drown	John W. Warren
William Walker Eccles	Noel Owen Willis
Cliff T. Gelmstedt	(Jan. 31, 1947)
Thomas Ramsey Rice	

## BACHELOR OF SCIENCE IN HOME ECONOMICS

Ruth Mae Armstrong	Carol Elinor Smith
*Dace J. Ricketts	(Jan. 31, 1947)
*Barbara Faye Whipple	

## BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Walter Jacob Bedel	Lawrence Alexander Paglia
Robert C. Downer	(Jan. 31, 1947)
Leland B. Eckley	William H. Shewan
Vaughn Marker	Theron Dick Stewart
James Edward Melarkey	(Jan. 31, 1947)
Leland Conrad Tucker	

## BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Joseph Lyman Earl	Stephen Godwin Moore
Francis Neil Fisher	(Jan. 31, 1947)
(Aug. 30, 1946)	Ellis Dale Peterson
‡James Woods Teipner, Jr.	



BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

H. Allen Gallaway

George B. Voss, Jr.

BACHELOR OF SCIENCE IN METALLURGICAL ENGINEERING

Arthur August Alles

S. Vernon Wines

BACHELOR OF SCIENCE IN MINING ENGINEERING

Tung S. Fong

Charles E. Johnston

Harris A. Hansen

Marshall Dickey Joplin

Royce Aller Hardy, Jr.

(Jan. 31, 1947)

(Jan. 31, 1947)

William Irl Lane

Paul D. Hoefling

Harold R. Swingle

Robert William Hoyer

Floyd Troy Wilmoth

(Jan. 31, 1947)

---

\* Receives also Teacher's Diploma of High School Grade.

† Receives also Teacher's Diploma of Grammar Grade.

‡ Elected to Phi Kappa Phi.

## ROSTER OF STUDENTS

FALL AND SPRING SEMESTERS

1947-1948

*Explanations of Abbreviations*

A&S.....	Arts and Science	Fr.....	Freshman
Ag.....	College of Agriculture	So.....	Sophomore
CE.....	School of Civil Engineering	Jr.....	Junior
EE.....	School of Electrical Engineering	Sr.....	Senior
HE.....	School of Home Economics	Gr.....	Graduate
ME.....	School of Mechanical Engineering	Sp.....	Special
MM.....	Mackay School of Mines		

Name	College	Classification	Home Address
Aalde, Kaare.....	MM	Jr.	Sparks
Abalos, Virginia.....	A&S	So.	Montello
Abercrombie, Elaine Helen.....	A&S	So.	Boulder City
Abercrombie, Fred William.....	A&S	Fr.	Boulder City
Abernathy, Frances.....	A&S	So.	Ruth
Abry, Phillis.....	A&S	Sp.	Reno
Adams, Gary Jay.....	A&S	Fr.	Reno
Adams, Herman Milo.....	A&S	Fr.	Bunkerville
Adams, Kay Lee.....	A&S	Fr.	Logandale
Adams, Marian.....	A&S	Fr.	Overton
Adams, Warren Howard.....	A&S	Sr.	Arnold, Nebraska
Afleck, Harold Wayne.....	CE	So.	Boise, Idaho
Aiazzi, Raymond Guy.....	A&S	Fr.	Carlin
Aldrich, Alexander II., Jr.....	A&S	Fr.	Fernley
Aldrich, Catherine.....	A&S	Jr.	Fernley
Alexander, Claude.....	A&S	Fr.	Reno
Allan, Calvin Ellsworth.....	A&S	Fr.	Las Vegas
Allredge, Elaine.....	A&S	Fr.	Las Vegas
Allen, Babette Leinani.....	A&S	So.	Reno
Allen, Charles.....	MM	Fr.	East Ely
Allen, Robert Rapha.....	A&S	So.	Reno
Almour, Richard Burns.....	A&S	Fr.	June Lake, Calif.
Alzola, Raymond Robert.....	Ag	Fr.	Rowland
Ancho, Mary.....		Gr.	Battle Mountain
Andersen, William Clive.....	ME	Sr.	Overton
Anderson, Carol Ruth.....	A&S	Sr.	Sparks
Anderson, Chester James.....	A&S	Fr.	Ogden, Utah
Anderson, Deloy Harold, Jr.....	A&S	Fr.	Ely
Anderson, Donald Stephen.....	A&S	Fr.	Elko
Anderson, Donna.....		Gr.	Reno
Anderson, Dorothy Louise.....	HE	Fr.	Markleeville, Calif.
Anderson, Eugene Neil.....	A&S	So.	Elko
Anderson, Grant Thor.....		Gr.	Fernley
Annand, Patricia.....	A&S	Fr.	Reno
Antoniazzi, Fred James.....	A&S	So.	Tonopah
Arak, Harry.....	MM	So.	W. Hollywood, Calif.
Arant, John Roberts.....	A&S	Fr.	Reno
Arbon, Edwin Ray.....	EE	Fr.	Reno

Name	College	Classification	Home Address
Archer, James Farrington.....	A&S.....	Jr.....	Topaz, Calif.
Arciniega, Edward.....	A&S.....	Fr.....	Los Angeles, Calif.
Arenaz, Pablo.....	A&S.....	Sr.....	Reno
Arentz, Alice Catherine.....	A&S.....	Fr.....	Reno
Argabright, William Keith.....	A&S.....	So.....	Alturas, Calif.
Armstrong, Blanche Reta.....	A&S.....	So.....	Reno
Arndell, Vivien Louise.....	A&S.....	Fr.....	Reno
Arenson, David Andrew.....	CE.....	Fr.....	Oakland, Calif.
Arnold, Binney Ella.....	A&S.....	Sr.....	Reno
Ashley, Alfred Wayne.....	EE.....	Fr.....	Reno
Ashurst, Donald Odell.....	ME.....	Fr.....	Topaz, Calif.
Ast, Robert William.....	A&S.....	Sr.....	Winnemucca
Asta, Vincent.....	A&S.....	So.....	Elk Grove, Calif.
Atkins, John T.....	MM.....	So.....	Needles, Calif.
Atkinson, James Russell.....	A&S.....	So.....	Reno
Atwood, Jay Dale.....	Ag.....	Fr.....	Reno
Auchampaugh, Virginia.....	A&S.....	Sr.....	Reno
Audrain, Charleen Ellen.....	A&S.....	So.....	Reno
Audrain, Dawna Lee.....	A&S.....	So.....	Reno
Audrain, Thornton LeRoy.....	A&S.....	Sr.....	Reno
Averett, Walter Reed.....	A&S.....	Jr.....	Caliente
Ayala, Constance Lowe.....	A&S.....	Fr.....	Boston, Mass.
Bacigalupi, Frank Jack, Jr.....	A&S.....	Sr.....	Reno
Backus, Norman Lloyd.....	A&S.....	Sp.....	Sparks
Bagley, Donald G.....		Gr.....	Reno
Baker, Douglas.....	MM.....	Jr.....	Boulder City
Baker, Henry Albert.....	EE.....	Fr.....	Sparks
Baker, Herbert Curtis.....	A&S.....	Jr.....	Yerington
Baker, Julia Verna.....	A&S.....	Sr.....	Reno
Baker, Phyllis Claudia.....	A&S.....	Jr.....	Sacramento, Calif.
Baker, Richard.....	A&S.....	Sr.....	Reno
Baldwin, Wilma Florence.....	A&S.....	Fr.....	Henderson
Ball, Barbara Lee.....	A&S.....	So.....	Tonopah
Ballard, Virgil Bennett.....	A&S.....	Fr.....	Winnemucca
Bandoni, Robert Joseph.....	EE.....	Fr.....	Babbitt
Banta, Benjamin Harrison.....	A&S.....	So.....	Reno
Banta, Clifford William.....	A&S.....	Jr.....	Leevining, Calif.
Banta, Roger Wade.....	A&S.....	So.....	Bishop, Calif.
Barakat, Ruth Louise.....	A&S.....	Jr.....	W. Philadelphia, Pa.
Barbagelata, Alfred A.....	A&S.....	So.....	Reno
Barbash, Jo Ann.....	A&S.....	Fr.....	Reno
Barbash, Roger Sheldon.....	A&S.....	Fr.....	Reno
Barbieri, Aurelio Alfred.....	A&S.....	Fr.....	Reno
Barger, Floyd Joseph.....	A&S.....	Fr.....	Reno
Barkley, James Robert.....	MM.....	Jr.....	Fallon
Barnum, Mary Eleanor.....	A&S.....	Fr.....	Eureka, Calif.
Barrett, Juanita Leona.....	A&S.....	So.....	Reno
Barrios, Alberto Hock.....	MM.....	Jr.....	Reno
Barsanti, Elio Alfred.....	A&S.....	So.....	Tonopah
Barta, James Joseph.....	A&S.....	Fr.....	E. Chicago, Ind.
Bartl, Charles Peter.....	A&S.....	Fr.....	Bijou, Calif.

Name	College	Classification	Home Address
Barto, Helen Ramona.....	A&S.....	Sp.....	Elmore, Minn.
Barto, Robert.....	A&S.....	Sp.....	Clear Water, Fla.
Bartolomei, Marjorie Lee.....	A&S.....	Fr.....	Pittsburg, Calif.
Barton, Thomas Varley, Jr.....	MM.....	Fr.....	So. San Francisco
Bates, Lois Ann.....	A&S.....	Fr.....	Boulder City
Batjer, Grace Naomi.....	A&S.....	Sr.....	Smith
Batt, Frances Mae.....	A&S.....	So.....	Carlin
Baty, Gloria Jane.....	A&S.....	So.....	Quincy, Calif.
Baumann, William Henry.....	MM.....	Fr.....	Niagara Falls, N. Y.
Bay, Carole Rosella.....	A&S.....	So.....	Reno
Beach, Freeman Hutchins.....	MM.....	So.....	Menlo Park, Calif.
Beaman, George B.....	A&S.....	Fr.....	Yerington
Bearss, Charlotte Ruby.....	A&S.....	Fr.....	Reno
Beasley, Winfield Scott.....	A&S.....	Fr.....	Sullivan, Ind.
Beaupré, Louis John.....	Ag.....	Sp.....	Washington, D. C.
Beck, Irene Margaret.....	A&S.....	Jr.....	Newcastle, Calif.
Becker, Alvin Forman.....	A&S.....	Fr.....	Hayward, Calif.
Beckwith, Carol Ellen.....	A&S.....	Fr.....	McGill
Beebe, Sara Elizabeth.....	A&S.....	Jr.....	Herlong, Calif.
Beets, Glen Frisco.....	A&S.....	Fr.....	Goldfield
Beko, William Peter.....	A&S.....	Sr.....	Tonopah
Belew, William Morris.....	A&S.....	Jr.....	Sparks
Bell, Arthur James.....	A&S.....	Jr.....	E. McKeesport, Pa.
Bell, Enfield.....	MM.....	Fr.....	Elko
Bell, Joanne Helen.....	A&S.....	So.....	Reno
Bell, Shirley Jeanne.....	A&S.....	So.....	Las Vegas
Bell, Thomas Graham.....	A&S.....	So.....	Henderson
Belnap, Bruce Earl.....	EE.....	So.....	Sparks
Benedetto, Alton Francis.....	A&S.....	Fr.....	Oakland, Calif.
Benedict, Althea Belle.....	HE.....	Jr.....	Babbitt
Benedict, Carl Stuart.....	A&S.....	Fr.....	San Francisco, Calif.
Bengochea, Harry P.....	A&S.....	So.....	Winnemucca
Benna, Bruno.....	A&S.....	Fr.....	Richmond, Calif.
Bennett, George Donald.....	A&S.....	So.....	Tonopah
Benson, George Howard.....	A&S.....	So.....	McGill
Bergeron, Beverly Claire.....	A&S.....	So.....	Westminster, Calif.
Bergmann, Virginia Hand.....	A&S.....	Sr.....	Sparks
Berkley, Shirley Lucile.....	A&S.....	Fr.....	Sacramento, Calif.
Bernard, Jack B.....	A&S.....	Sr.....	Yerington
Bernard, Lowell Collins.....	A&S.....	Sr.....	Carson City
Berning, Duane Eugene.....	CE.....	Fr.....	Carson City
Berry, Henry Kingsbury.....	A&S.....	So.....	Reno
Berry, Joseph Barnes.....	A&S.....	Jr.....	Reno
Bertelson, Theodore V.....	A&S.....	Fr.....	Sparks
Bevandich, Louis.....	A&S.....	Fr.....	Hoquaim, Wash.
Bevans, Douglas Orville.....	ME.....	Sr.....	Lomita Park, Calif.
Bianchi, Marino William.....	A&S.....	Jr.....	Fallon
Bidart, Alice Elizabeth.....	A&S.....	So.....	Winnemucca
Biglieri, Clyde.....	A&S.....	Fr.....	Reno
Bills, John Erwin.....	A&S.....	Gr.....	Reno
Bingham, LaVonne Arretta.....	A&S.....	Fr.....	Las Vegas

Name	College	Classification	Home Address
Birdsall, Wallace Oliver.....	ME.....	Jr.....	Reno
Birdzell, Nita Elizabeth.....	A&S.....	Fr.....	Wells
Bisbee, John Allen.....	EE.....	So.....	Las Vegas
Black, Berleley Warburton.....	A&S.....	Sr.....	Reno
Black, Lorne Summers.....	A&S.....	So.....	Reno
Black, Moray Joan.....	A&S.....	So.....	Reno
Blackham, Don.....	A&S.....	Fr.....	Dividend, Utah.
Blackham, Thomas Jack.....	EE.....	So.....	Dividend, Utah.
Blair, Edgar Wayne.....	CE.....	Sr.....	Boulder City
Blair, Joan Matcovich.....	A&S.....	Jr.....	Henderson
Blair, Molly.....	HE.....	So.....	Portland, Oregon
Blank, Joan Leigh.....	A&S.....	Fr.....	San Francisco, Calif.
Blaser, Dora.....	A&S.....	Fr.....	Elko
Blount, Richard J.....	ME.....	Fr.....	Babbitt
Boardman, Arthur Maurice.....	A&S.....	Jr.....	Reno
Boese, Robert Paul.....	A&S.....	Fr.....	Eureka, Calif.
Boettcher, Jerome Ward.....	MM.....	Jr.....	Vallejo, Calif.
Beggess, Betty Sue.....	A&S.....	Jr.....	Reno
Boies, Eyer Horace.....	Ag.....	Fr.....	Wells
Bond, John Crane.....	A&S.....	Fr.....	Reno
Bondley, George Barnum.....	EE.....	Fr.....	Las Vegas
Bondley, Lois Shaver.....	A&S.....	So.....	Las Vegas
Bondurant, Robert Thomas.....	A&S.....	So.....	Ely
Bonham, Charles Anton.....	EE.....	Fr.....	Wendel, Calif.
Bonsall, Leo Edward.....	A&S.....	Sp.....	Philadelphia, Pa.
Borge, James D.....	A&S.....	Sr.....	Yerington
Bosler, Edward John.....	EE.....	So.....	Reno
Bowden, William George, Jr.....	A&S.....	So.....	Las Vegas
Bowers, Millard Roland.....	A&S.....	Jr.....	Fallon
Bowman, Thomas Don.....	MM.....	Fr.....	Las Vegas
Boyd, Dunston Frank.....	ME.....	Fr.....	Bishop, Calif.
Boyer, Gordon Norris.....	CE.....	Jr.....	San Francisco, Calif.
Boyer, Pat Louise.....	A&S.....	Fr.....	Reno
Boyle, Edward Joseph.....	CE.....	Fr.....	Philadelphia, Pa.
Boyle, Kathryn Elizabeth.....	A&S.....	Fr.....	Reno
Boyle, Peggy Jane.....		Gr.....	Reno
Boyle, Mary Jane.....	A&S.....	Fr.....	Sparks
Boyles, Lois May.....	HE.....	So.....	Milwaukee, Wis.
Boynton, John Wesley.....	ME.....	So.....	Winnemucca
Brackett, William Leonadis.....	A&S.....	So.....	Reno
Bradbury, Richard Ernest.....	EE.....	Sp.....	Reno
Bradford, Edward Wayne.....	A&S.....	Sr.....	Reno
Bradley, Mary Alice.....	A&S.....	So.....	Reno
Bradshaw, Charles Kenneth.....		Gr.....	Reno
Bradshaw, James Halbert.....	A&S.....	Sr.....	Reno
Bradshaw, Robert Earl.....	A&S.....	Fr.....	Reno
Brady, Bernard Patrick.....	ME.....	Sr.....	Richmond Hgts., Mo.
Brady, Maurice Hugh.....	MM.....	So.....	Baker, Oregon
Braitto, Frederick.....	A&S.....	Sr.....	Reno
Brambila, Robert Mauro, Jr.....	A&S.....	Sr.....	Neward, N. J.
Brander, Roger Wayne.....	A&S.....	Jr.....	San Francisco, Calif.

Name	College	Classification	Home Address
Braun, George Otto.....	A&S.....	Fr.....	W. Hartford, Conn.
Bray, Mark Stanley, Jr.....	A&S.....	So.....	Gardnerville
Breese, Charles Reagan.....	ME.....	Sr.....	Reno
Brennan, Carolyn Jean.....	A&S.....	So.....	Loomis, Calif.
Brennan, Kathryn Ann.....	A&S.....	Jr.....	Loomis, Calif.
Bright, James Jewett.....	A&S.....	Fr.....	Bishop, Calif.
Bright, Sandra Reaves.....	A&S.....	Fr.....	Bishop, Calif.
Bright, William Corke, Jr.....	A&S.....	Fr.....	Reno
Briner, William Stoy.....	A&S.....	Fr.....	Auburn, Calif.
Brinkerhoff, William Albert.....	A&S.....	Sr.....	Sparks
Broadbent, Susan.....	A&S.....	So.....	Ely
Brooks, Barry.....	A&S.....	Ag.....	Reno
Brooks, Dudley Wilder.....	A&S.....	So.....	Columbus, Ohio
Broten, George Arthur.....		Gr.....	Reno
Brown, Betty Jean.....	A&S.....	Jr.....	Reno
Brown, Beverly Lorraine.....	A&S.....	Fr.....	Boulder City
Brown, Charley Walter.....	A&S.....	So.....	Reno
Brown, Donald Deane.....	ME.....	Fr.....	Henderson
Brown, Eleanor Frances.....	A&S.....	So.....	Reno
Brown, Frederick Elden.....	ME.....	Fr.....	Long Beach, Calif.
Brown, Jack Lee.....	A&S.....	So.....	Salt Lake City, Utah
Brown, John Webster.....	CE.....	So.....	Reno
Brown, Kenneth Marion.....	Ag.....	Fr.....	Loyalton, Calif.
Brown, Meryde Grace.....	HE.....	Jr.....	Winnemucca
Brown, Nanette.....	A&S.....	So.....	Reno
Brown, Orin Verne.....	A&S.....	So.....	Richmond, Calif.
Brown, Orrin P., Jr.....	ME.....	Fr.....	Markleeville, Calif.
Brown, Stanley Howard.....	A&S.....	So.....	Reno
Brown, Vance Eugene.....	EE.....	So.....	Boulder City
Browne, Howard Edgar, Jr.....	A&S.....	Fr.....	Reno
Broyles, Stewart Fleming.....	CE.....	So.....	San Francisco, Calif.
Brubaker, Ronald Wayne.....	MM.....	So.....	La Verne, Calif.
Bruch, Harter Ross.....	CE.....	Jr.....	Sacramento, Calif.
Brueckner, Guenther W.....	A&S.....	So.....	Reno
Brummelkamp, John.....	A&S.....	So.....	Pasadena, Calif.
Brundy, Richard James.....	A&S.....	Sr.....	Las Vegas
Brunner, Alberta Jean.....	A&S.....	Sr.....	Winnemucca
Brunton, Arthur Frederick.....	MM.....	Fr.....	McGill
Brunton, George Delbert.....	MM.....	So.....	McGill
Brunton, Mary Lou.....	A&S.....	Fr.....	McGill
Brush, William Parshall.....	A&S.....	So.....	Carson City
Brussard, Evelyn Anderson.....		Gr.....	Reno
Bruun, Kitty.....	A&S.....	Fr.....	Norway
Bryant, Beverly May.....	A&S.....	So.....	Las Vegas
Bryant, Robert Stanley.....	CE.....	Jr.....	Los Angeles, Calif.
Buck, William Ellory.....	A&S.....	Jr.....	Boulder City
Buckman, Georgia C.....		Gr.....	Reno
Bull, Portia.....	A&S.....	So.....	Reno
Bundy, Gus Walter.....	A&S.....	Sp.....	Long Island, N. Y.
Bunker, Owen S.....	A&S.....	Fr.....	Bunkerville
Burke, Charles A.....	Ag.....	Sr.....	Reno

Name	College	Classification	Home Address
Burke, Robert Alan.....	CE.....	Fr.....	Reno
Burkhalter, Patricia Louise.....	A&S.....	Sr.....	Reno
Burkholder, Constance Dione.....	A&S.....	So.....	Henderson
Burr, Elizabeth Marie.....	A&S.....	Jr.....	Las Vegas
Burr, Helen Louise.....	HE.....	Fr.....	Las Vegas
Butler, Robert William.....	MM.....	Jr.....	Santa Maria, Calif.
Butler, Roberta Eleanor.....	A&S.....	Sr.....	Santa Maria, Calif.
Butner, Vaughn Talboe.....	A&S.....	Jr.....	Grass Valley, Calif.
Byers, Roger Stauncliffe.....	MM.....	Fr.....	Reno
Byrd, Clarence Edward.....	Ag.....	Sr.....	Reno
Byrd, Gwenneth Jeanne.....	A&S.....	So.....	Reno
Byrnes, Malcolm Harwood.....	A&S.....	So.....	Crystal Bay
Cahoon, James Lawrence.....	A&S.....	Fr.....	Richmond, Calif.
Cain, John Stuart.....	MM.....	Fr.....	Bridgeport, Calif.
Calder, Joan.....	A&S.....	Fr.....	Winnemucca
Calkin, Annabelle Louise.....	A&S.....	So.....	Sparks
Callahan, Evelyn Marguerite.....	A&S.....	Jr.....	Reno
Calvert, Robert Wood.....	A&S.....	So.....	Reno
Calwell, Glenn.....	A&S.....	Fr.....	Portland, Oregon
Cammerano, Augustine F.....	A&S.....	Sp.....	Garfield, N. J.
Campbell, Edgar Richard.....	EE.....	Fr.....	Reno
Campbell, John Logan.....	A&S.....	Fr.....	Los Angeles, Calif.
Campbell, Robert Elton.....	A&S.....	Sr.....	Highlands, Calif.
Campbell, Robert Rall.....	A&S.....	So.....	Los Angeles, Calif.
Campbell, Ross Arnold.....	MM.....	Fr.....	Reno
Campbell, Shirley Marolyn.....		Gr.....	Fernley
Campbell, William Eugene.....	ME.....	So.....	Summersville, W. Va
Candee, Frank Paul.....	ME.....	Fr.....	Fallon
Canessa, William.....	CE.....	Sr.....	Sparks
Cann, George Rodney.....	A&S.....	So.....	Reno
Cantlon, Loe Francis.....	A&S.....	Fr.....	Sparks
Caprio, Josephine Rose.....	A&S.....	So.....	Reno
Capurro, Kathleen June.....	A&S.....	So.....	Reno
Cardinalli, Guy Frederick.....	A&S.....	Fr.....	Eureka
Carey, Cecil Paul, Jr.....	CE.....	So.....	Orosi, Calif.
Carlsen, Charles Raymond.....	CE.....	So.....	Reno
Carlsen, Mary Lue.....	A&S.....	Sp.....	Reno
Carlson, Charles Tinnas.....	A&S.....	Fr.....	Walker, Minn.
Carmichael, Patricia Ann.....	A&S.....	Sr.....	Las Vegas
Carmody, John Philip.....	A&S.....	Fr.....	Chicago, Ill.
Carnel, Norma Grace.....	A&S.....	Fr.....	Reno
Carns, Elizabeth.....	A&S.....	So.....	DuBois, Pa.
Carolo, Steve John.....	A&S.....	Fr.....	Reno
Carr, Edwin Clarence.....	Ag.....	So.....	Fallon
Carrick, Robert Warren.....	A&S.....	Jr.....	East Ely
Carruth, Norma Jean.....	A&S.....	So.....	Las Vegas
Carson, Thomas C.....	A&S.....	Fr.....	National City, Calif.
Carter, Barbara Jean.....	A&S.....	Fr.....	Reno
Carter, Donald Leslie.....	CE.....	Fr.....	Elko
Carter, John Henry.....	A&S.....	Jr.....	Perry, Iowa

Name	College	Classification	Home Address
Caruso, Carmel	A&S	Fr.	Dilliner, Pa.
Casazza, Ralph Anthony	A&S	Fr.	Reno
Case, Ferne C.	A&S	Sp.	Sparks
Casella, Peter Joseph, Jr.	Ag	Fr.	Reno
Caserta, John Alfred	A&S	Jr.	Reno
Casey, Jeanne Hill	A&S	So.	Yuba City, Calif.
Casey, Robert Dale	A&S	Sp.	Reno
Casey, Virginia June	A&S	So.	Los Angeles, Calif.
Catich, Jack George		Gr.	Reno
Cavitt, Billie Louise	A&S	Fr.	Truckee, Calif.
Cayton, Edith Lucille	A&S	So.	Janesville, Calif.
Cedarholm, Joseph Preston	Ag	Fr.	Sacramento, Calif.
Cerrita, Marion June	A&S	Fr.	Reno
Chamberlin, John Leslie	A&S	So.	Los Angeles, Calif.
Chamberlin, Yvonne	A&S	Fr.	France
Chambers, Robert Lee	A&S	Fr.	Las Vegas
Chapin, Lelah Talva	A&S	Sr.	Reno
Chapman, Loring Fredrick	A&S	Fr.	Reno
Chapman, Shirley Mae	A&S	Fr.	Huntington Pk., Cal.
Charles, William Berry	Ag	Fr.	Los Angeles, Calif.
Charlesworth, Lois Mae	A&S	So.	Sacramento, Calif.
Charlton, Earle Perry	A&S	So.	Reno
Checci, Albert Louis	A&S	Jr.	Sparks
Chesley, Velda Ilene	A&S	Fr.	Boulder City
Chester, James Edward	EE	Jr.	Bennington, Vt.
Chichester, Alice Audry	A&S	Fr.	Coleville, Calif.
Chickese, Ernest Maurice	A&S	Sr.	Reno
Childs, Robert Barney	A&S	So.	Menlo Park, Calif.
Chiman, Glen Householder	CE	Sp.	American Fork, U.
Choy, John	MM	Jr.	San Francisco, Calif.
Christensen, Ernest John	CE	Fr.	Ontario, Calif.
Christensen, Glen Claire	A&S	Jr.	Harrisburg, Oregon
Christensen, Ingvar, Jr.	CE	Fr.	Reno
Christensen, Roland	A&S	Fr.	Reno
Churchill, Florence Ethel	A&S	So.	Reno
Ciardella, Humbert Joseph, Jr.	A&S	Fr.	Truckee, Calif.
Ciari, Harold Roy	EE	Jr.	Sparks
Cladianos, Pete Philip	A&S	Fr.	Reno
Clark, George Leonard W.	A&S	Sr.	Carlin
Clark, Glen Howard	EE	Fr.	McGill
Clark, Kenneth Marlow	MM	So.	Grass Valley, Calif.
Clarkson, James Thomas	CE	So.	E. Rutherford, N. J.
Clay, Gerald Laverne	A&S	So.	Virginia City
Clayton, Jack	A&S	Fr.	Reno
Clemens, Thomas Ford	MM	Jr.	Sacramento, Calif.
Clements, Lloyd William	CE	Jr.	Reno
Cliff, Alice Joyce	A&S	So.	Franktown
Clifford, Thomas	A&S	So.	Reno
Coates, Anita Christinia	A&S	So.	Sparks
Cobb, Jack LaMar	A&S	Sp.	Richmond, Calif.
Cobia, Lois	A&S	Sr.	Loyalton, Calif.



Name	College	Classification	Home Address
Cochran, David Leo	ME	Fr.	Genoa
Coe, Charles Frederick	ME	Sr.	Burlingame, Calif.
Coe, Zina Ellen	A&S	Sr.	Boulder City
Cole, Virginia	A&S	Sr.	Ely
Coleman, Morris Reynolds	A&S	So.	Reno
Coli, Bruno Leado	A&S	So.	Verdi
Collett, Robert Drake	A&S	Fr.	Babbitt
Collins, Benjamin Jere	MM	Jr.	San Fernando, Cal.
Collins, Chester Francis	MM	So.	Reno
Collins, Edward Allan	A&S	Fr.	Reno
Collins, Jack Cornelius	A&S	Sr.	Sparks
Collins, Thomas William	A&S	So.	Bishop, Calif.
Colon, Richard Walter	A&S	So.	Avenal, Calif.
Colwell, Kenneth Leon	ME	Fr.	Touchet, Wash.
Conaway, Geneve Lila	A&S	So.	Caliente
Conelly, Frederick E.	A&S	So.	Hawthorne
Conklin, William Joel	A&S	Fr.	Loyalton, Calif.
Conley, Edward Lowell	EE	Fr.	Reno
Constantinidou, Angeline	A&S	Sr.	Athens, Greece
Cook, Lois Luke		Gr.	Reno
Cook, Ruth Fay	A&S	Sr.	Oroville, Calif.
Cook, Woodrow Wilson	A&S	So.	Man, W. Va.
Cooper, Earl William	EE	Fr.	Reno
Cooper, Herman Joseph	A&S	So.	Sparks
Cooper, Lloyd Eugene	Ag	Fr.	Sparks
Cooper, Ruth Delores	A&S	Fr.	Boulder City
Corbett, Neal Harvey	A&S	Fr.	East Ely
Corbett, Silas Treat	CE	Fr.	Reno
Cordes, Vern Henry	CE	Fr.	Genoa
Corey, James John	A&S	So.	Las Vegas
Corley, Robert Martin	A&S	Fr.	Los Alamitos, Cal.
Corporon, Everett Eugene	A&S	Fr.	Reno
Correll, Archalee	A&S	Fr.	Reno
Cotter, Richard A., Jr.	ME	Fr.	Berkeley, Calif.
Coughlin, Robert John	EE	So.	Reno
Coughlin, Walter Edward	EE	So.	Reno
Cox, Don Knowlton	A&S	Sr.	Reno
Cox, Nilda Lorraine	A&S	Fr.	Reno
Crabb, David Bowman K.	A&S	Fr.	Paaauhau, Hawaii
Craig, Robert Russell		Gr.	Reno
Cram, Marianne	A&S	Fr.	Las Vegas
Crandall, Dorene	A&S	Fr.	Las Vegas
Crandall, Patricia	A&S	Jr.	Las Vegas
Craven, William Price	ME	Fr.	Fallen Leaf, Calif.
Crawford, Irving Pope	A&S	Fr.	Reno
Creamer, Lois Jean	A&S	Fr.	Las Vegas
Creed, Jeanne Forson	A&S	Sr.	Reno
Creed, Lyle Kim	A&S	Sr.	Berkeley, Calif.
Crescenzo, Frank George	A&S	Jr.	Carson City
Creveling, Robert LaRue	A&S	Jr.	Reno
Crider, John Franklin	CE	Fr.	Reno

Name	College	Classification	Home Address
Crocker, Lenley Eugene.....	A&S	So.....	Reno
Cross, Charles Burton, Jr.....	A&S	Sp.....	Tahoe City, Calif.
Cross, Sally Silver.....	A&S	Fr.....	Tahoe City, Calif.
Crow, Jerrine Dale.....	A&S	Fr.....	Saugatuck, Mich.
Crowe, Myrl Duane.....	MM	Sp.....	McGill
Cudinski, Anthony Joseph.....	A&S	Jr.....	Reno
Cullen, Raymond Alfred.....	A&S	So.....	Reno
Cummings, Brian Christopher.....	A&S	Fr.....	Troy, N. Y.
Cundick, Richard LaMont.....	A&S	Fr.....	Ely
Cundiff, George Milton.....	ME	Jr.....	Harahan, La.
Cunha, George.....	A&S	So.....	Hawthorne
Cuniffe, Thomas James.....	A&S	Sp.....	Woodside, L. I., N.Y.
Cunningham, Donald John.....	MM	Fr.....	Seward, Alaska
Curless, Everett Wilbur.....	A&S	Jr.....	Corona, Calif.
Currie, Alice LaVerne.....	HE	Fr.....	Bishop, Calif.
Curtis, Mark.....	A&S	Fr.....	Phoenix, Ariz.
Cusick, Kenneth.....	A&S	So.....	Reno
Cutter, Patricia Margaret.....	A&S	So.....	Oakland, Calif.
Dakin, Ethel Denise.....	A&S	Fr.....	Salt Lake City, Utah
Dale, Harold Dana, Jr.....	A&S	Jr.....	Manhattan Beh., Cal.
Dalton, Ruth Mary.....	A&S	Fr.....	Reno
Damkroger, Donald Albert.....	MM	Jr.....	Maui, Hawaii
Damon, Lawrence Eugene.....	MM	Fr.....	Reno
Damron, Louise Marie.....	A&S	Sr.....	Ruth
Dana, Robert Putnam.....	Ag	So.....	Pleasanton, Calif.
Daniel, Ruth Merrylyn.....	HE	Fr.....	Reno
D'Antonio, Louis Joseph.....		Gr.....	Reno
Dark, Gloria McDonald.....	A&S	So.....	Reno
Darlich, Herschel.....	A&S	Fr.....	Buffalo, N. Y.
Darney, Lois.....	A&S	So.....	Reno
Darney, Ronald Blaine.....	A&S	Fr.....	Reno
Daseler, Jack Eugene.....		Gr.....	Oroville, Calif.
Davidson, Donald Eggert.....	CE	So.....	Coachella, Calif.
Davidson, Lydia Anita.....	A&S	Fr.....	Las Vegas
Davis, Augustus J.....	CE	Sp.....	Arlington, Va.
Davis, Fred Allen.....	CE	Sp.....	Reno
Davis, Grant.....	A&S	Sr.....	Carson City
Davis, James Clark.....	A&S	Fr.....	San Diego, Calif.
Davis, James Howard.....	ME	So.....	Boulder City
Davis, Jerry Lee.....	A&S	So.....	Placerville, Calif.
Davis, Russell Burton.....	A&S	Fr.....	Reno
Davis, Stanley Nelson.....	A&S	So.....	Ceres, Calif.
Davis, Vivian Bramble.....	A&S	Sr.....	Las Vegas
Davis, Willis Lee.....	EE	Fr.....	Boulder City
Dawson, Donald Ray.....	EE	Sp.....	Las Vegas
Dawson, Dorothy Jean.....	A&S	Fr.....	Las Vegas
Dearing, Laura Lide.....	A&S	Sr.....	Las Vegas
Dearing, Lide.....	A&S	Jr.....	Las Vegas
DeLaMare, John Darrell.....	A&S	Fr.....	Reno
DeLanoy, Drake.....	A&S	So.....	Reno
DeLauer, Leland Keith.....	A&S	So.....	Oakland, Calif.

Name	College	Classification	Home Address
Demetras, Leo.....	A&S	Fr.....	Ely
Deming, Don Dorion.....	A&S	So.....	Reno
Demuth, Jeanne M.....	A&S	Fr.....	Reno
Denham, Phyllis Louise.....	A&S	Fr.....	Henderson
Denton, Nixon Edward.....	A&S	Sr.....	Bridgeport, Calif.
DeRicco, Elmo Joseph.....	CE	Sr.....	Ely
Dericco, Elmo LeRoy.....	A&S	Fr.....	Lovelock
DeRushia, Emery Jerome.....	A&S	Jr.....	McCloud, Calif.
Desiderio, Fred L.....	A&S	So.....	Reno
Devlin, William Richard.....	A&S	So.....	Whitney
DeVore, Maurice Clinton.....	CE	Fr.....	Alturas, Calif.
DeWalt, Patricia Marie.....	A&S	Fr.....	Hawthorne
DeWees, Wayne Leo.....	CE	Fr.....	Bishop, Calif.
Dickerson, Belford Clay.....	A&S	So.....	Reno
Dickerson, Beryl Ellen.....	A&S	Jr.....	Reno
Dickerson, Lois Midgley.....		Gr.....	Reno
Dickey, Donald Ryder, Jr.....	MM	So.....	San Francisco, Calif.
Dickinson, Philip Osborn.....	A&S	Fr.....	Chicago, Ill.
Diehl, Jack Fraser.....	ME	Fr.....	Reno
Dieringer, Andrew Jack.....	A&S	Sr.....	Reno
DiFraia, Dominic Anthony.....	MM	Fr.....	Somerville, Mass.
Dillon, Clark Gulick.....	CE	Fr.....	Hinsdale, Ill.
Dini, Joseph Edward.....	A&S	So.....	Yerington
Doan, Kenneth William.....	A&S	Fr.....	Reno
Dodds, Douglas David.....	EE	So.....	Las Vegas
Dolan, Murray Vincent.....	A&S	So.....	Sparks
Dolan, William Mark.....	A&S	So.....	Carson City
Donaldson, Gene William.....	A&S	Sr.....	Reno
Dondero, Alan Gerard.....	A&S	So.....	Carson City
Dondero, Angelo Francis.....	A&S	Sp.....	Lovelock
Dondero, Roy K.....	MM	Sr.....	Reno
Dorman, Edith H.....		Gr.....	Reno
Douglass, Mary Ann.....	A&S	Fr.....	Reno
Downes, Patrick Adams.....	MM	Fr.....	Quincy, Calif.
Doxey, Loren T.....	EE	So.....	Carlin
Doyle, Alice Ruth.....	A&S	Sr.....	Reno
Doyle, C. Louise Wogan.....	A&S	Jr.....	Reno
Doyle, John Thomas.....	A&S	Fr.....	Susanville, Calif.
Doyle, William Thomas.....	A&S	So.....	Reno
Drakulich, Duke.....	A&S	Jr.....	Kimberly
Drakulich, Michael.....	A&S	Sr.....	McGill
Drennen, Edgar Raymond.....	A&S	So.....	Sacramento, Calif.
Dressler, Frederick William.....	Ag	Fr.....	Gardnerville
Drewette, Frederick M.....	A&S	So.....	Reno
Drown, Charles Marion.....	EE	Fr.....	Lovelock
Drown, Denece.....	A&S	Fr.....	Twin Falls, Idaho
Drown, Lora Jean.....	A&S	Sr.....	Elko
Drown, Ralh Dayton.....	CE	Jr.....	Oroville, Calif.
Drown, Robert Joseh, Jr.....	A&S	Jr.....	Lovelock
Drumm, Manuel Felix.....		Gr.....	Reno
Duffy, Charles Creighton.....	A&S	Jr.....	Sparks

Name	College	Classification	Home Address
Dugan, George L.....	A&S	Fr.....	Reno
Duggan, Dorothy Joan E.....	A&S	Fr.....	Oak Park, Ill.
Dulgar, Amma.....	Ag	Sp.....	Sparks
Dulgar, Doris Elaine.....	HE	Fr.....	Sparks
Dulion, Alice Lenore.....	A&S	Fr.....	Carson City
Dupont, John Louis.....	CE	Jr.....	Reno
DuPratt, Ronald Joseph.....	A&S	Jr.....	Yerington
Durham, Dariel.....	A&S	So.....	Reno
Durham, Robert Clifton, Jr.....	A&S	Sr.....	Ft. Lauderdale, Fla.
Dyer, Doris Ann.....	A&S	Fr.....	Reno
Earl, J. Rodney.....	CE	So.....	Reno
Earl, Winona Davis.....	A&S	Jr.....	North Las Vegas
Early, Raymond Everett.....	CE	Fr.....	Verdi
Eason, James Rodney.....	A&S	So.....	Sparks
Eason, Richard Lockhead.....	A&S	So.....	Sparks
Eather, Josephine J.....	A&S	Sr.....	Eureka
Ebberts, Rodney Orin.....	EE	So.....	Westwood, Calif.
Ebert, John William.....	EE	Jr.....	Las Vegas
Ebert, William Henry.....	MM	Jr.....	Sutton, Nebr.
Eckley, Howard.....	CE	Fr.....	Mina
Eddy, Gloria Gwen.....	A&S	Fr.....	Winnemucca
Eddy, Patsy Jean.....	A&S	Fr.....	Winnemucca
Edgemon, Roy James.....	A&S	Fr.....	Ft. Worth, Texas
Edsall, Glenn Ellis.....	MM	Fr.....	Carlin
Edwards, Betty Jane.....	A&S	Fr.....	Reno
Edwards, Joyce LaBelle.....	A&S	Fr.....	Fresno, Calif.
Edwards, Joyce Marie.....	A&S	Fr.....	Las Vegas
Elder, Rae Irene.....	A&S	Sp.....	Reno
Elder, Willard Duane.....	A&S	Fr.....	Nichols, Iowa
Eliades, Jordan.....	A&S	Sr.....	McGill
Elliott, Carol Jeanne.....	A&S	Fr.....	Santa Monica, Calif.
Ellis, Joseph Matthew.....	MM	Sr.....	Chicago, Ill.
Ellis, Mary Katherine.....	A&S	Fr.....	Sparks
Ellis, Ray Gaston.....	MM	So.....	Altadena, Calif.
Elmore, Richard James, Jr.....	ME	Jr.....	Babbitt
Emery, James Patrick.....	A&S	Fr.....	Nelson
Engelke, Honor Claire.....	A&S	So.....	Babbitt
English, Arthur Matthew.....	A&S	So.....	Winnemucca
Enke, Helen Rosalie.....	A&S	Jr.....	Elko
Ensslin, Theodore Gustav.....	A&S	So.....	Porterville, Calif.
Erb, Jo Ann.....	A&S	Jr.....	Reno
Erich, Theodore.....	A&S	Fr.....	Redwood City, Calif.
Ertter, Bernadette Lois.....	A&S	Sr.....	Boise, Idaho
Estes, George Amos.....	A&S	Fr.....	Medford, Mass.
Etchart, Alice.....	A&S	Sr.....	Winnemucca
Etchegaray, LeRoy Wayne.....	Ag	Fr.....	Eureka
Etcheto, John.....	A&S	So.....	Reno
Etcheverry, Mary Jean.....	A&S	Fr.....	Eureka
Eustachy, George Marius.....	A&S	So.....	Oakland, Calif.
Evans, Dwain Harold.....	A&S	Fr.....	Susanville, Calif.
Evans, Eugene Thomas.....	A&S	Sr.....	San Leandro, Calif.

Name	College	Classification	Home Address
Evans, Galen Lloyd.....	A&S.....	Fr.....	Reno
Evans, Norman Seymore.....	A&S.....	Sp.....	Reno
Evasovic, Eli.....	A&S.....	Jr.....	Ruth
Everett, Albert Bernard.....	A&S.....	Fr.....	Sparks
Facha, Joseph Ventura.....	ME.....	Fr.....	Newcastle, Calif.
Fagan, John Francis.....	MM.....	Jr.....	Reno
Fahy, Thomas Robert.....	CE.....	Fr.....	San Diego, Calif.
Fairchild, George Theodore.....	Ag.....	Sp.....	Sacramento, Calif.
Fairchild, Mahlon David.....	A&S.....	Sr.....	Reno
Fairchild, Margaret.....	HE.....	So.....	Reno
Fairn, Patricia Ann.....	A&S.....	So.....	San Francisco, Calif.
Falconeri, Gennaro S.....	A&S.....	Jr.....	Reno
Farnsworth, Bertha Ellen.....	HE.....	So.....	Ely
Farnsworth, Ray Darwin.....	A&S.....	So.....	Winters, Calif.
Faul, Rose Marie.....	A&S.....	So.....	Salinas, Calif.
Fee, Patricia Anne.....	A&S.....	So.....	Fort Bidwell, Calif.
Feeger, John Albert.....	MM.....	So.....	Elkhart, Ind.
Feit, Cornelius Joseph.....	A&S.....	Fr.....	Long Island, N. Y.
Fenkell, Jack.....	A&S.....	Fr.....	Mina
Ferguson, Lewis Monroe.....	ME.....	Fr.....	Portola, Calif.
Ferrari, Evelyn Gertrude.....	A&S.....	Sr.....	Sparks
Ferris, Mary Arlene.....	A&S.....	So.....	Herlong, Calif.
Fiddes, Paul Eugene.....	MM.....	Jr.....	Ruth
Fields, Harold Clifford.....	A&S.....	Fr.....	Elko
Fikes, Jack Harris.....	A&S.....	Fr.....	Reno
Fischer, Harold William.....	A&S.....	So.....	San Francisco, Calif.
Fiscus, Joyce.....	A&S.....	Fr.....	Reno
Fisher, Herman Edward.....	A&S.....	Fr.....	Las Vegas
Fisher, Mary Wilma.....	A&S.....	So.....	Reno
Fister, Don D.....	A&S.....	Fr.....	Fallon
Fitzgerald, Marilyn Jeanne.....	A&S.....	Fr.....	Las Vegas
Flangas, Gux Alexander.....	MM.....	Fr.....	Ely
Flangas, William Gus.....	MM.....	Fr.....	Ely
Fleshman, Robert Dean.....	A&S.....	Fr.....	Las Vegas
Flynn, Charles Patrick.....	Ag.....	Fr.....	Sparks
Foley, John Patrick.....	A&S.....	So.....	Reno
Foley, Joseph Michael.....	A&S.....	So.....	Reno
Fong, Wing Gay.....	A&S.....	Fr.....	Las Vegas
Ford, Boyce Lammar.....	Ag.....	Fr.....	Reno
Forsyth, Stanley Swenson.....	A&S.....	Fr.....	Caliente
Foulkes, Harvey Barrett, Jr.....	EE.....	Jr.....	San Francisco, Calif.
Fox, Kenneth Suttle.....	EE.....	So.....	Fallon
Fox, Otto Monroe, Jr.....	CE.....	Fr.....	Huntington Pk., Cal.
Fox, Patricia Ellen.....	A&S.....	Fr.....	Janesville, Calif.
Francellini, Patrick F.....	A&S.....	Fr.....	Clairton, Pa.
Francovich, Jac Nikola.....	A&S.....	Fr.....	Reno
Frank, Jack Donald.....	MM.....	Fr.....	Reno
Frank, Myrna Arline.....	A&S.....	Fr.....	Las Vegas
Franke, Otto.....	EE.....	Fr.....	L. I. City, N. Y.
Franklin, Glenn Southard.....	MM.....	Fr.....	Reno
Franson, Carl Emil, Jr.....	CE.....	Sr.....	Golconda

Name	College	Classification	Home Address
Frantz, Ted Claude.....	A&S.....	So.....	Reno
Frediani, Silvano John.....	A&S.....	So.....	Sparks
Free, Raymond Brafford, Jr.....	A&S.....	So.....	Pioche
Freeman, James Frank.....	A&S.....	Fr.....	Reno
Freemont, Earl Chester.....	A&S.....	So.....	Reno
Freeger, Joan Shirley.....	A&S.....	Fr.....	Reno
Frehner, Gordon.....	EE.....	So.....	Las Vegas
French, Donald Eugene.....	A&S.....	So.....	Wendall, Idaho
Fricke, Calvin Alden.....	Ag.....	So.....	Gardnerville
Friel, John Joseph, Jr.....	A&S.....	So.....	Tonopah
Friend, Marjorie Lynette.....	A&S.....	So.....	Henderson
Frisbie, Charles Robert.....	MM.....	Sr.....	Los Angeles, Calif.
Fritch, Lewis Homer.....	EE.....	Jr.....	San Francisco, Calif.
Fritz, Betty Lee.....	A&S.....	Jr.....	Bridgeport, Calif.
Fryberger, Fay Elaine.....	A&S.....	So.....	Lovelock
Fryer, Charles Morel.....	Ag.....	So.....	San Francisco, Calif.
Fugit, William Dale.....	MM.....	Jr.....	Pendleton, Ore.
Fulstone, Eleanor.....	A&S.....	Fr.....	Smith
Fulstone, Jeanne.....	A&S.....	Fr.....	Smith
Fulstone, Richard Nelson.....	Ag.....	Fr.....	Smith
Fulton, Fred J.....	MM.....		Reno
Fulton, Hugh.....	MM.....	So.....	Oakland, Calif.
Fulton, Jack Ryan.....	A&S.....	Sr.....	Reno
Funkhouser, John Randall.....	A&S.....	Sp.....	Reno
Funkhouser, Preston Lee.....	MM.....	Sr.....	Reno
Furchner, Patricia Virginia.....	A&S.....	So.....	Reno
Furchner, Theodore Allen.....	A&S.....	So.....	Reno
Furin, Jack James.....	A&S.....	So.....	Uniontown, Pa.
Fuss, Robert Herman.....	MM.....	Fr.....	Lovelock
Gadda, Wilma Dolores.....	HE.....	Fr.....	Reno
Gaffey, Thomas Tracy.....	Ag.....	Fr.....	Reno
Gaffey, William T., Jr.....	A&S.....	Fr.....	Reno
Gallagher, Gedney.....	A&S.....	Jr.....	Elko
Galletti, Gerald Wilbur.....	A&S.....	Fr.....	Sparks
Galli, Albert Andre'.....	A&S.....	Fr.....	Reno
Galli, Michael.....	Ag.....	Sp.....	Elko
Galli, Peter, Jr.....	MM.....	So.....	Elko
Galloway, Betty Jean.....	A&S.....	Sp.....	Reno
Gallues, Henry Nick.....	A&S.....	Jr.....	Reno
Gardella, Raymond Francis.....	A&S.....	So.....	Reno
Gardner, Virginia M.....	A&S.....	Sr.....	Reno
Garfinkle, Buddy Alvin.....	A&S.....	So.....	Reno
Garland, Jeanne.....	A&S.....	Fr.....	Las Vegas
Garner, Nina Verdie.....	A&S.....	So.....	Tungsten
Garner, Roma F.....	A&S.....	Sr.....	Tungsten
Garretson, Willis LeMoyne.....	EE.....	Fr.....	Reno
Garrett, Donna Elizabeth.....	A&S.....	Fr.....	Reno
Gartler, Seymour.....	A&S.....	So.....	N. Hollywood, Calif.
Gary, Arthur Carleton.....	MM.....	Fr.....	Oakland, Calif.
Gaston, Sara Christine.....	A&S.....	Fr.....	Vallejo, Calif.

Name	College	Classification	Home Address
Geach, Joseph LeRoy, Jr.	A&S	Fr.	Reno
Gelmstedt, Cliff Theodore		Gr.	Sutcliffe
Gent, William Robert	A&S	Fr.	Reno
Goehagan, William Lester	A&S	Fr.	Altadena, Calif.
George, Bebe A.	A&S	Jr.	Reno
George, Don Stacy	A&S	Fr.	Reno
Geraghty, William M.	CE	Jr.	Ely
Gerken, Rudy	A&S	Fr.	San Jose, Calif.
Gerrans, Mary Lou	A&S	Sr.	Reno
Getto, George M.	A&S	So.	Sparks
Geyer, Charles William	A&S	Jr.	Tonopah
Gialy, Andrew N.	A&S	So.	Elko
Gianelli, Louis Frank	A&S	So.	Stockton, Calif.
Gibson, Betty Lou Bender	HE	Fr.	Las Vegas
Gibson, George P.	A&S	Jr.	Carson City
Gibson, Maisie LuCille	A&S	Fr.	Las Vegas
Gibson, Ray William	ME	Fr.	Henderson
Gibson, Robert Warren	A&S	Jr.	Jacksonville, Fla.
Gidley, Joyce	A&S	So.	McGill
Gifford, Arthur Alan	ME	Fr.	Las Vegas
Gifford, Robert Lee	A&S	So.	Las Vegas
Gigas, Gunter George	A&S	So.	Reno
Gilbert, Colleen Frances	A&S	Fr.	Hawthorne
Gilbert, Marvin Dick	A&S	Jr.	Reno
Gildner, Will Warner	MM	Fr.	Las Vegas
Gillis, Robert Lee	Ag	Fr.	Carson City
Gillis, William Grant	A&S	Sr.	Long Beach, Calif.
Gillispie, Robert William	CE	Jr.	Escalon, Calif.
Gilmore, Earl Penilton	ME	Fr.	Boulder City
Ginocchio, Andrea	A&S	So.	Reno
Giorgi, Evo	EE	Sr.	Yerington
Giorgi, Ugo, Jr.	Ag	So.	Yerington
Glahn, Reginald Austin	MM	Fr.	Santa Barbara, Cal.
Glaser, Lea Jane	A&S	So.	Elko
Glynn, James Mercer	ME	Sr.	Reno
Glynn, Marillyn Reynolds	A&S	Sr.	Sacramento, Calif.
Goble, Martha Trulove	A&S	Fr.	Sparks
Goodbey, James Milton	EE	So.	Boulder City
Godbey, Thomas William	EE	Fr.	Boulder City
Goen, Lawrence R.	EE	Fr.	Boulder City
Goff, Charles William	Ag	So.	Reno
Goff, Marguerite Virginia	A&S	Fr.	Reno
Goicoa, Romon Nicanor	A&S	Fr.	Elko
Gomes, Edward Francis	A&S	Fr.	Fallon
Gomes, John Milton	MM	So.	Oakland, Calif.
Gonfiantini, Nello, Jr.	Ag	So.	Reno
Goodin, James Thomas	A&S	Sr.	Reno
Goodrich, Kenneth Elliott	MM	So.	Goldfield
Gori, Floyd Edward	ME	Fr.	Sparks
Gorman, Richard Harold	EE	So.	Reno
Gorton, George Darwin	A&S	Fr.	Virginia City

Name	College	Classification	Home Address
Gotberg, Marion Elizabeth	A&S	Sr.	Reno
Gough, Jack Richard	EE	So.	Salt Lake City, Utah
Gough, Ray Frank	MM	Jr.	Salt Lake City, Utah
Gould, Barbara J.	A&S	Jr.	Reno
Gould, Geraldine	A&S	Sp.	Reno
Gould, Harry Kenton	A&S	Jr.	Reno
Gould, Robert Emerson	A&S	Sr.	Grants Pass, Ore.
Grabam, Michael		Gr.	Fort Jones, Calif.
Granata, Evo A.	A&S	Sr.	Reno
Granata, Manuel	A&S	Sp.	Reno
Gras, Sidney Jackson	EE	So.	Rock Springs, Wyo.
Graul, Albert Richard	ME	Fr.	Jersey City, N. J.
Graves, Orsie Sidney	A&S	Sr.	Sparks
Gray, Raymond Guild		Gr.	Reno
Green, Elmer Talmadge	A&S	Fr.	Philadelphia, Pa.
Green, Phyllis B.	A&S	Jr.	Sparks
Green, Wallace Glenn	EE	Jr.	Sitka, Alaska
Gregory, Arthur Royce	CE	Jr.	Elko
Gregory, Ernest Gordon	A&S	Fr.	Elko
Grevich, Milan James	A&S	Fr.	Mt. Iron, Minn.
Griffen, Gloria Grace	A&S	So.	Reno
Griffin, Marguerite Eunice		Gr.	Reno
Griffith, George Lee	ME	Jr.	Thornton, Calif.
Griswold, Morley W.	A&S	Fr.	Reno
Grotegut, Eugene K.	A&S	Sr.	Reno
Groth, George Robert	A&S	So.	Carson City
Grover, Theodore W.	A&S	So.	Boulder City
Gruwell, Joseph D., Jr.	A&S	So.	Hawthorne
Gubler, Delma	A&S	So.	Overton
Guess, Joyce Lois	A&S	Jr.	Loyalton, Calif.
Guess, Phyllis Jean	A&S	Fr.	Loyalton, Calif.
Guio, Dexter Thayer	A&S	Fr.	Reno
Gunderson, Carol A.	A&S	Sr.	Reno
Gunzburg, Rolland Louis	A&S	Fr.	Redding, Calif.
Gustin, William	EE	Sr.	Coachella, Calif.
Guyette, David Eugene	A&S	Fr.	Henderson
Hackett, Helen	A&S	Sr.	Pioche
Hackett, Irving E.	MM	Fr.	Pioche
Hadley, Glen Milo, Jr.	A&S	Fr.	Reno
Hagar, Thomas Roy	EE	Jr.	Reno
Hagen, Donald	A&S	Fr.	Beverly Hills, Cal.
Hager, James	MM	So.	Reno
Haines, Thellwyn Montague	A&S	Fr.	Carson City
Hakata, George Hachino	A&S	Fr.	Elko
Hale, James Clarence, Jr.	A&S	Fr.	Reno
Haley, Gloria	A&S	Sr.	Litchfield, Calif.
Hall, Louis Brewer		Gr.	Reno
Hall, Norman Sidney	CE	Fr.	Klamath Falls, Ore.
Haman, Howard John	A&S	Sr.	Seattle, Wash.
Hamblin, Joann Gray	HE	Fr.	National City, Calif.
Hamilton, David Earl	EE	So.	Hagaman, N. Y.



Name	College	Classification	Home Address
Hamm, Gladys.....	A&S	Sp.	Sparks
Hancock, Ronald Helmer.....	ME	Fr.	Sparks
Hancock, William Edward.....	A&S	So.	Carson City
Hand, Melva Louise.....	A&S	So.	Reno
Hanford, Gerard B., Jr.....	ME	Sr.	Alhambra, Calif.
Hanley, Mary Cathleen.....	A&S	Jr.	Reno
Hanna, David Dale.....	A&S	So.	Reno
Hansen, Anna Lu.....	A&S	Sr.	Portland, Oregon
Hansen, Margaret Florence.....	HE	Fr.	Henderson
Hansen, Marilyn Irene.....	A&S	So.	Verdi
Hansen, Stanley.....	CE	Fr.	Cedar Falls, Iowa
Hansen, Stanley Walter.....	A&S	Fr.	Reno
Hansen, William Christian.....	Ag	So.	Los Angeles, Calif.
Hanson, John Carl.....	A&S	Fr.	Sparks
Hanssen, Alice Marie.....		Gr.	Sparks
Hanssen, Doris Agnes.....	A&S	Jr.	Sparks
Hardesty, Manford Ira.....	A&S	Fr.	Reno
Hardesty, Vena Lee.....	A&S	Fr.	Reno
Hardison, Artson P.....	ME	So.	Pasadena, Calif.
Hardison, Julia Bogard.....	A&S	Jr.	Pueblo, Colo.
Hardy, Buddy Ray.....	EE	Fr.	Las Vegas
Harker, James Stevens.....	A&S	Fr.	Reno
Harmon, John Robert.....	MM	So.	Imlay
Harney, Gordon Bernard.....	A&S	So.	Carson City
Harp, Merrie Jo.....	A&S	Sr.	Franktown
Harper, William Matthew, Jr.....	CE	Fr.	Virginia City
Harrigan, William Anderson.....	MM	Sr.	Reno
Harris, Brunson Mitchell.....	A&S	Jr.	San Francisco, Calif.
Harris, Donald Arthur.....	A&S	Fr.	Los Angeles, Calif.
Harris, Evan LaMar.....	A&S	Fr.	China Lake, Calif.
Harris, Gordon Walter.....	A&S	So.	Reno
Harris, Jack Charles.....	A&S	So.	Las Vegas
Harris, Joyce Adair.....	HE	So.	Cedarville, Calif.
Harris, Paul LeRoy.....	Ag	Fr.	Rochester, Indiana
Harrison, Leonard Lewis.....	EE	Fr.	Babbitt
Hartor, Robert Francis.....	A&S	Sp.	Fernley
Harvey, Thomas George.....	EE	Jr.	Reno
Harwood, Dewey Shafter, Jr.....	MM	So.	Battle Mountain
Haslam, Mary Frances.....	A&S	Fr.	Oakdale, Calif.
Hatton, William Charles.....	A&S	Fr.	Fallon
Hauk, Robert W.....	A&S	Fr.	Pasadena, Calif.
Hawkins, Leslie Earl.....	A&S	Jr.	Reno
Hayes, Gordon Lea.....	A&S	Fr.	Las Vegas
Hayes, Harold Burton.....	A&S	Jr.	Ft. Lauderdale, Fla.
Heath, Billy Jane.....	A&S	Sr.	Reno
Heath, Stanley Robert.....	A&S	Fr.	Menomonee, Wis.
Hecker, Nancy Ann.....	A&S	So.	Reno
Heckethorne, Howard Elden.....	A&S	Sr.	Las Vegas
Hedges, Weldon Lee.....	EE	Fr.	Reno
Heher, Bertine Ann.....	A&S	Jr.	Reno
Heinen, Frederick C.....	EE	Jr.	Reno
Helm, Ruth Marie.....	A&S	Fr.	Reno

Name	College	Classification	Home Address
Helmick, James Mason	ME	Jr.	Reno
Helstowski, John Theodore	A&S	So.	Irvington, N. J.
Hempfling, Robert James	A&S	Fr.	Reno
Henderson, John Dwight	A&S	Fr.	Reno
Henningsen, Carsten Martin	ME	Fr.	Gardnerville
Henningsen, John Carsten	Ag.	Fr.	Gardnerville
Henrikson, Oliver Milton	ME	Jr.	Lake Forest, Calif.
Herreid, Gordon Weed	MM	Fr.	Santa Maria, Calif.
Herrera, Elaine Frances	HE	So.	Eureka
Herrick, James Felix	A&S	Fr.	Reno
Herz, Thomas Sanford	A&S	Fr.	Reno
Herz, Wilton Frederick	CE	Fr.	Reno
Hess, Harrie Fox	A&S	Fr.	Las Vegas
Hess, Louis Charles, Jr.	A&S	Fr.	Las Vegas
Heywood, Helaine Frances	A&S	Jr.	Reno
Hibbs, Jo	A&S	So.	Golconda
Hickman, Helen Elaine	HE	Fr.	Reno
Hickman, Jacqueline J.	A&S	So.	Reno
Hildebrand, Bert Dewey, Jr.	A&S	So.	Reno
Hill, Bruce Murchison	A&S	Jr.	Reno
Hill, Charles Edward	A&S	So.	Reno
Hill, Charles Leonard, Jr.	CE	Fr.	Reno
Hill, Donald Phillip	ME	Fr.	Reno
Hill, Richard Marcus	CE	So.	Napa, Calif.
Hill, Stanley Gale	A&S	Sr.	Reno
Hilts, Frederick Borthwick	A&S	So.	Reno
Himes, George Hadley	A&S	Sr.	Carson City
Hinckley, Ward Wayne	A&S	So.	Reno
Hitchens, Lois Elaine	A&S	Jr.	Reno
Hodge, Barbara Anne	A&S	So.	Reno
Hodgkins, Gael Atherton	A&S	So.	Sacramento, Calif.
Hoke, Robert Stephen	MM	So.	Santa Cruz, Calif.
Holderman, Orville Lynn	A&S	Jr.	McGill
Holgate, Nancy Jean	A&S	Fr.	Reno
Holland, Richard James	Ag.	So.	Elgin, Ill.
Hollingsworth, Edgar Ardent	MM	Fr.	Lovelock
Holloway, John Arthur	A&S	So.	Hollywood, Calif.
Holman, Betty Jean	A&S	Fr.	Reno
Holman, Bobby Dean	Ag.	Fr.	Reno
Holman, Shanna Louise	A&S	So.	Ely
Holmby, Harold Gustav	A&S	So.	Reno
Holmes, Howard Forrest	A&S	Fr.	Oakland, Calif.
Holmes, June Vera M.	A&S	Fr.	Bingham Can., Utah
Holt, Ann	A&S	Fr.	McGill
Hooper, Dorothy Elaine	A&S	Sr.	Eureka
Hooper, William Henry	EE	So.	Vallejo, Calif.
Hoover, Norman W.	CE	Jr.	Reno
Hopkins, Galen Perry	A&S	Jr.	Sonoma, Calif.
Hopper, Floyd Lawrence	A&S	So.	Clearwater, Calif.
Hopper, Fredrick E.	A&S	So.	Clearwater, Calif.
Horgan, Helmi Dortha	A&S	Sp.	Reno

Name	College	Classification	Home Address
Horlacher, John R.	EE	Fr.	Ely
Hornbeck, Shirley Louise	A&S	Fr.	Reno
Horton, Robert Carlton	MM	Jr.	Reno
Horton, William Arthur	A&S	So.	Modesto, Calif.
Houghtaling, Earl Jay	EE	Jr.	Reno
Houghton, Alvin Albert	EE	So.	Susanville, Calif.
Houghton, Georgia Lee	A&S	Fr.	Las Vegas
Houghton, Helen Lorraine	A&S	Jr.	Susanville, Calif.
Houser, Robert Wilson	EE	Jr.	Toledo, Ohio
Howard, James M.	ME	Fr.	Virginia City
Howard, Jean Eleanor	HE	So.	Fallon
Howard, Landon Hawthorne	EE	So.	Long Beach, Calif.
Howard, Robert Lee	EE	Sr.	Reno
Howard, Sherman John	A&S	Fr.	Chicago, Ill.
Howd, Donald Fredric	A&S	Fr.	Reno
Hubbard, Charmaine Marie	A&S	So.	Virginia City
Hubbard, Leon Ronald	Ag	Fr.	Broadus, Montana
Huddleston, Jack Edmund	A&S	So.	Reno
Hudgens, Dorothy Jean	A&S	So.	Reno
Hudgens, Robert Lewis	A&S	Fr.	Reno
Hug, Allen LeRoy	A&S	Fr.	McGill
Hulbert, Robert Ernest	Ag	Fr.	Compton, Calif.
Hull, Jack Eugene	A&S	So.	Elko
Hulme, Gilbert N.	A&S	Jr.	Reno
Humphreys, Marilyn	A&S	Fr.	Sparks
Hunt, Charles Lavelle	A&S	Jr.	San Bernardino, Cal.
Hunt, Robert Louis	A&S	Fr.	Winnemucca
Hunter, Anne	A&S	Sp.	Reno
Hunter, Charlotte Lilly	A&S	Sp.	Reno
Hunter, George Robert	EE	Fr.	Reno
Hursh, Ernest Warren	A&S	Jr.	Fallon
Hurst, Clayton R.	A&S	So.	Reno
Hutchins, Bobby Dean	A&S	Fr.	Lund
Hutton, Richard Travis	ME	Jr.	Cucamonga, Calif.
Hyde, Garold Ashel	Ag	Fr.	Rowland
Hyde, Orson W.	A&S	So.	American Fork, Utah
Ianni, Pio William	ME	Fr.	Sparks
Ilg, Christian Herman, Jr.	CE	Fr.	Philadelphia, Pa.
Illerich, Daniel George	ME	Jr.	Sacramento, Calif.
Inch, Major A.	A&S	Sp.	San Pablo, Calif.
Ingle, Hugh Cochrane, Jr.	MM	Sr.	Medford, Oregon
Ireland, Patricia Claire	A&S	Sr.	McGill
Ireland, Willis John	A&S	So.	McGill
Irish, William Cooper	A&S	Fr.	Sparks
Irwin, Elsie Ruth	A&S	Fr.	Reno
Ishikuro, Miyoko		Gr.	Honokaa, Hawaii
Ishimoto, William Hiro	A&S	Fr.	Overton
Isola, Mario John	A&S	Jr.	Reno
Itza, Marion	A&S	So.	Winnemucca
Ivy, Myrna Joan	A&S	Fr.	Las Vegas

Name	College	Classification	Home Address
Jack, Dale Elliott.....	A&S	So.....	Reno
Jackson, Richard Maurice.....	CE	Jr.....	Indianola, Neb.
Jacobs, Raymond Gilbert.....	CE	Fr	Reno
Jager, Wilbur Bradshaw.....	A&S	Fr	Hollywood, Calif.
James, Marilyn Ruth.....	A&S	Jr.....	Virginia City
Jamieson, Robert Hardy.....	A&S	Fr.....	Reno
Jardon, Mary Hannah.....	A&S	Sp.....	Reno
Jemison, Rex Alan.....	A&S	Jr.....	Las Vegas
Jenkins, Harold Everett.....	A&S	Fr.....	Reno
Jensen, Esther Louise.....	HE	Fr.....	Sparks
Jensen, Mary Jean.....	A&S	Fr.....	Reno
Jensen, Olive Dell.....	A&S	So.....	Reno
Jensen, Reilly Campbell.....	A&S	Fr.....	Logandale
Jepsen, Hans Raymond, Jr.....	A&S	Fr.....	Minden
Jessop, Glenn Steven.....	EE	Sp.....	McGill
Jewett, Donald Kenneth.....	CE	So.....	Independence, Cal.
Johns, Genevieve Gloria.....		Gr.....	Reno
Johns, Stanley D.....	A&S	Fr.....	Oxnard, Calif.
Johnsen, Melvin Bernard.....	A&S	So.....	Fallon
Johnson, Arthur Wellesley.....	A&S	Sr.....	Fallon
Johnson, Dean Colgrove.....	MM	Jr.....	Brawley, Calif.
Johnson, Donald Scott.....	A&S	Sr.....	Austin
Johnson, Elma Hand.....	A&S	Jr.....	Reno
Johnson, Emmett Clifton.....	CE	Jr.....	Los Angeles, Calif.
Johnson, Frank Hilton.....	A&S	Fr.....	Reno
Johnson, George Millen.....	A&S	Fr.....	New Kensington, Pa.
Johnson, Joylin Jane.....	A&S	Jr.....	Las Vegas
Johnson, Laurence William.....	MM	Fr.....	Duncan, Ariz.
Johnson, Noel William.....	A&S	So.....	Arcadia, Calif.
Johnson, Norman Joseph.....	A&S	Fr.....	West Lynn, Mass.
Johnson, Virgil Kay.....	A&S	So.....	Reno
Johnson, Walter Burton.....	MM	So.....	Kimberly
Johnson, Walter T., Jr.....	ME	Jr.....	Berry Creek, Calif.
Johnson, William Howard.....	A&S	So.....	Fallon
Johnston, Dalton Melville.....	MM	So.....	Sparks
Joice, Fred Alexander.....	A&S	Jr.....	Winnemucca
Jolly, Marjorie Beatrice.....	A&S	Fr.....	Reno
Jolly, Tom Langhorn.....	ME	Fr.....	Reno
Jones, Barbara Darleen.....	A&S	Fr.....	Sparks
Jones, Edmund Aaron.....	A&S	So.....	Reno
Jones, Henry William.....	A&S	Sr.....	Yerington
Jones, Patricia Louise.....	A&S	So.....	McGill
Jones, Robert Blanchard.....	MM	Jr.....	Sacramento, Calif.
Jones, Thomas Lacy.....	EE	So.....	Reno
Joseph, Barbara Rose.....	A&S	Fr.....	Reno
Joseph, Louie Saleem.....	A&S	Fr.....	Lynwood, Calif.
Judkins, Clyde Robert.....	EE	Fr.....	Carlin
Juinger, Edwin Chester.....	A&S	Fr.....	Elko
Jukich, George, Jr.....	ME	Fr.....	McGill
Julian, Joseph.....	A&S	So.....	Reno
Justycky, Felix.....	A&S	Sr.....	Albany, N. Y.

Name	College	Classification	Home Address
Kabeary, William S.	A&S	Fr.	San Francisco, Calif.
Kafoury, Samuel Peter, Jr.	ME	So.	Reno
Kajans, George Andrew	A&S	Fr.	Reno
Kalmanir, Thomas John	A&S	Fr.	Jerome, Pa.
Kaminaka, Eunice	A&S	So.	Reno
Kane, Elizabeth Haydock	A&S	Sr.	Glendale, Calif.
Kaplan, Abe	A&S	Jr.	Reno
Karacabey, Tahsin	A&S	Fr.	Turkey
Karrasch, Karl Kenneth	A&S	So.	Reno
Kastenau, Boleslaus W.	A&S	Sr.	Reno
Katz, Leonard	MM	Jr.	Bronx, N. Y.
Kaul, Harry John	EE	Sr.	Golconda
Kean, Marjory Christine	HE	So.	Carson City
Keddie, Helen Marie	A&S	Fr.	San Francisco, Calif.
Keenan, Jacqueline A.	A&S	Fr.	Reno
Keever, Charles Lee	A&S	Fr.	Carson City
Kegel, Jerome Charles	ME	Jr.	Reno
Kehoe, John J.	A&S	So.	Reno
Keiffer, Robert Stanley	A&S	Sr.	Reno
Keith, Carol	A&S	Sr.	Sacramento, Calif.
Keller, Harold Paschall	ME	Jr.	Las Vegas
Keller, Shirley Faye	A&S	So.	Elko
Kelly, Marjorie Idella	A&S	Fr.	Imlay
Kelley, Terrence Daniel	A&S	Fr.	Reno
Kelley, Virginia Rose	A&S	Fr.	Reno
Kellough, Ida Mae	A&S	Sr.	Santa Ana, Calif.
Kendall, Robert Eli	MM	Sr.	Virginia City
Kennedy, Doris May	A&S	So.	Elko
Kennedy, Frances Wilma	A&S	Sr.	Susanville, Calif.
Kennedy, Robert Holm	A&S	So.	Bishop, Calif.
Kent, Robert Roe	A&S	So.	Fallon
Keown, Glenn Thayer	A&S	Fr.	Reno
Kepler, David Edwin	A&S	Fr.	Walnut Creek, Calif.
Kern, Robert Bruce	ME	Fr.	San Francisco, Calif.
Kernan, Barbara Louise	A&S	Fr.	Reno
Kerr, Robert Todd	A&S	Fr.	Reno
Kewley, Bruce Russell	A&S	So.	Lovelock
Kiley, L. David	EE	So.	Reno
Killgore, Richard H.	A&S	Fr.	Reno
Kim, Elizabeth	A&S	So.	Las Vegas
King, John Theodore	ME	Jr.	Reno
Kinneberg, David Andrew	MM	So.	Battle Mountain
Kinner, Richard Ervin	EE	So.	Clearfield, Utah
Kinney, Joseph Francis	ME	Jr.	Winnemucca
Kinnikin, William E.	ME	Fr.	Reno
Kirkbride, Loren Allen	EE	Sr.	Sebastopol, Calif.
Kishpaugh, Dale Hampton	ME	Jr.	Clarksburg, Calif.
Klenes, James Charles	A&S	Fr.	Uniontown, Pa.
Klimaszewski, Matthew E.	A&S	Jr.	Garfield, N. J.
Klimaszewski, Theodore S.	A&S	Fr.	Garfield, N. J.
Klinger, Betty Jane	A&S	Fr.	Boulder City

Name	College	Classification	Home Address
Klosterman, Edward.....	A&S.....	Fr.....	San Diego, Calif.
Knight, Richard Goodwin.....	ME.....	Fr.....	Concord, Calif.
Knoles, James Pierce.....	A&S.....	Fr.....	San Luis Obispo, Cal.
Knoll, Joseph James.....	A&S.....	Fr.....	Westwood, Calif.
Knowles, Gerald Elgin.....	MM.....	Jr.....	Willows, Calif.
Knudson, Elmer Robert.....	A&S.....	So.....	Reno
Kondel, Theodore William.....	A&S.....	Fr.....	E. Rutherford, N. J.
Korb, Leighton Richard.....	A&S.....	Fr.....	Brazil
Korb, Robert William.....	A&S.....	So.....	Reno
Kornmayer, Freda Jeanne.....	A&S.....	So.....	Reno
Kornmayer, William Andrew.....	A&S.....	Jr.....	Reno
Kosakowski, Stanley William.....	A&S.....	So.....	Housatonic, Mass.
Kramer, Gladys Putney.....	A&S.....	Jr.....	Reno
Krause, Otto Hans.....	EE.....	Fr.....	Reno
Kremen, Thelma.....	A&S.....	Fr.....	Reno
Kretzmeier, Devona.....	A&S.....	Fr.....	Portland, Oregon
Kring, Marian Imogene.....		Gr.....	Reno
Kuchera, Myrna Berdine.....	A&S.....	Fr.....	Monticello, Ind.
Kuhn, John Robert.....	A&S.....	Fr.....	New Rochelle, N. Y.
Kurtz, Wallace Laverne.....	A&S.....	Fr.....	Hazen
Laca, Tony, Jr.....	EE.....	Fr.....	Lovelock
Lamberson, Ellis Edmund.....	A&S.....	Fr.....	Hawthorne
Lampe, Carol Diane.....	A&S.....	Fr.....	Middleton, Calif.
Landucci, August J.....	A&S.....	So.....	Reno
Lane, Jimmie Joan.....	A&S.....	So.....	Winnemucca
Langan, Lucien Norberto.....	MM.....	So.....	Flushing, N. Y.
Lange, Phyllis.....	A&S.....	Sp.....	Reno
Lange, Ronald Victor.....	A&S.....	Fr.....	Gardnerville
Langley, Cordes Porcher.....	Ag.....	Fr.....	Berkeley, Calif.
Lanning, Louis Keith.....	A&S.....	Fr.....	Reno
Larsen, Richard Friman.....	A&S.....	Fr.....	Honolulu, Hawaii
Larsen, Robert Theodore.....	A&S.....	So.....	San Francisco, Calif.
Larson, Adolph Roy.....	EE.....	So.....	Parlier, Calif.
Larson, Bruce Linn.....	MM.....	So.....	Manhattan
Larson, Robert Harry.....	CE.....	So.....	Chicago, Ill.
Larson, Valdemar Frick.....	MM.....	Fr.....	Whittier, Calif.
Larsson, Alfred John, Jr.....	EE.....	So.....	Jersey City, N. J.
Lartirigoyen, Mary Jane.....	A&S.....	Fr.....	Cedarville, Calif.
Laughery, Arlyn Lucerne.....	A&S.....	So.....	Boulder City
Laughlin, Priscilla T.....	A&S.....	Fr.....	Ely
Launer, Douglas C.....	MM.....	Sr.....	San Gabriel, Calif.
Lauterbach, Lois June.....	A&S.....	Fr.....	Los Angeles, Calif.
Laxalt, John Maurice.....	A&S.....	So.....	Carson City
Leberski, Walter Irvin.....	Ag.....	So.....	Reno
Lee, Charles Allen.....	CE.....	So.....	Salinas, Calif.
Lee, Edward E., Jr.....	A&S.....	Fr.....	Reno
Lee, Eleanor Corle.....	A&S.....	Jr.....	Reno
Lee, Georgia Diana M.....	A&S.....	So.....	Reno
Lee, Harriet Maxine.....	A&S.....	Sr.....	Reno
Lee, John Peter.....	A&S.....	So.....	Reno
Lee, Keith L.....		Gr.....	Reno

Name	College	Classification	Home Address
Lee, Maida.....	A&S.....	So.....	Boulder City
Lee, Marilyn Ann.....	A&S.....	So.....	Reno
Legarza, Ray Dan.....	A&S.....	Fr.....	Winnemucca
Leggett, John Brice.....	A&S.....	So.....	Reno
LeGoy, Leo Robert.....	A&S.....	So.....	Bishop, Calif.
Lehman, Beverley Edna.....	A&S.....	So.....	San Francisco, Calif.
Leisure, Carl William.....	A&S.....	Gr.....	Reno
Lemaire, Darrell B.....	A&S.....	So.....	Reno
Lenzora, Richard Melvin.....	A&S.....	Fr.....	Reno
Leon, Frederick Martin.....	A&S.....	Fr.....	San Diego, Calif.
Leonard, Lawrence C.....	A&S.....	Fr.....	Reno
Leonard, Lionel George.....	A&S.....	Fr.....	Boulder City
Lepori, Edna Claudine.....	A&S.....	Fr.....	Carson City
Lepori, Henry Joseph.....	A&S.....	Fr.....	Carson City
Lepori, Paul Charles.....	A&S.....	Fr.....	Carson City
Leupold, Ralph Pollard.....	ME.....	So.....	Norwich, Conn.
Levack, Samuel S.....	A&S.....	Jr.....	Reno
Levitt, Ralph Richard.....	EE.....	So.....	Camino, Calif.
Lewis, Benjamin, Jr.....	MM.....	Sr.....	Los Angeles, Calif.
Lewis, Wayne Earl.....	A&S.....	Fr.....	Logandale
Libbey, Mary Gluyas.....	A&S.....	Sr.....	Nevada City, Calif.
Libke, Joseph Burr.....	A&S.....	Fr.....	Sullivan, Ind.
Lightfoot, Donald Lyman.....	EE.....	Fr.....	Sparks
Linabary, Dorothy Esther.....	A&S.....	Jr.....	Reno
Lind, Patricia E.....	A&S.....	So.....	Fernley
Lindeman, Dwight Jerome.....	A&S.....	Fr.....	Oak Park, Ill.
Lindesmith, George Gerald.....	A&S.....	So.....	Henderson
Lindesmith, Orlando Roger.....	EE.....	So.....	Henderson
Linfesty, Lyman Daniel.....	A&S.....	So.....	Bishop, Calif.
Link, Marilyn Jean.....	A&S.....	Fr.....	Reno
Linka, Robert Harrison.....	Ag.....	Fr.....	Austin
Linville, Gladys Lynne.....	A&S.....	Sp.....	Reno
Liotard, Alphonsine.....	A&S.....	Jr.....	Reno
Little, Robert Elliott.....	A&S.....	Jr.....	Twin Falls, Idaho
Littlejohns, Dale Edward.....	A&S.....	So.....	Oakland, Calif.
Livierato, Eli.....	A&S.....	Jr.....	Reno
Lockhart, Charles Loren.....	MM.....	Sr.....	Dunsmuir, Calif.
Logan, Thomas George.....	ME.....	Fr.....	Overton
Lokke, Freda Branch.....	A&S.....	So.....	Sparks
Lokke, Gerald Fred.....	A&S.....	Fr.....	Sparks
Lokke, Theodore Henry.....	A&S.....	Fr.....	Sparks
Long, John Robert.....	A&S.....	So.....	Ruth
Long, Walter E.....	ME.....	So.....	Las Vegas
Lord, Raymond Nelson.....	MM.....	Fr.....	Lake Hiawatha, N.J.
Lothrop, Dolores Lee.....	A&S.....	So.....	Reno
Louis, George Arya.....	A&S.....	So.....	New York, N. Y.
Lovell, Laura Lucretia.....	A&S.....	Fr.....	Mammoth Lakes, Cal.
Lowden, John Leroy.....	A&S.....	Jr.....	Walla Walla, Wash.
Lowry, Gus William.....	A&S.....	So.....	McComb, Miss.
Luce, Darrell Dunkle.....	A&S.....	So.....	Las Vegas
Lund, Clarence Alfred.....	A&S.....	Fr.....	Virginia City
Lund, Richard.....	A&S.....	Fr.....	Reno

Name	College	Classification	Home Address
Lundergreen, Shirley Lois	A&S	Fr	Gardnerville
Lusebrink, Ted Robert	A&S	Fr	Concord, Calif.
Lusich, George Jerry	EE	Fr	Sparks
Lusick, Nick Leon	A&S	Fr	Reno
Lyman, Donald Joseph	A&S	So	Chicago, Ill.
Lynch, James Francis, Jr.	CE	Fr	Elko
Lynch, Robert Michael	A&S	So	Elko
Lynn, Cal Franklin	A&S	Fr	Elko
Lyons, Geraldine Elizabeth	A&S	Fr	Reno
Macaulay, Shirley M.	HE	Fr	Reno
Macaulay, Thomas Roderic	EE	So	Reno
MacDonald, Marilyn Louise	A&S	Jr	Pomona, Calif.
MacDougall, Gerry Ann	A&S	Fr	Reno
Mack, Gene Marie H.	A&S	Fr	Reno
Mack, Robert Charles	A&S	So	Reno
Mackey, Donna Lenore	A&S	Fr	Babbitt
Mackey, James Patrick	A&S	Fr	E. Liverpool, Ohio
Madsen, Constance Luella	A&S	So	Fallon
Madsen, Robert Kelly	MM	Jr	San Rafael, Calif.
Maestretti, Don William	A&S	So	Austin
Maestretti, Marjorie Lee	A&S	Jr	Austin
Magee, George Franklin	A&S	So	Reno
Magleby, Mavis	A&S	Fr	Las Vegas
Mahon, Virginia Ann	A&S	Sr	Birmingham, Mich.
Mainwaring, Charles Otto	CE	Jr	Visalia, Calif.
Mally, William Paul	A&S	Fr	Reno
Malone, Robert Gordon	A&S	Fr	Sparks
Maloney, Doris	A&S	Jr	Reno
Maloney, Frank M.	A&S	Sp	Reno
Malson, Marion Eugene	EE	Fr	Alturas
Mansfield, Helen Louise	A&S	So	Reno
Mantle, Evelyn		Gr	Reno
Mardellis, Anthony	EE	So	France
Marisquirena, Josephine A.	A&S	Sr	Elko
Marker, Ella V.	A&S	Sp	Reno
Marker, Geneva May	A&S	So	Reno
Marks, Jerome Francis	A&S	So	Reno
Marriage, Charles B.	A&S	So	Carson City
Martin, Barbara Earle	A&S	So	Elko
Martin, George Edward	A&S	Fr	Newark, N. J.
Martin, Lewis Edward	A&S	Fr	Las Vegas
Martin, Margaret Louise	A&S	Sp	Reno
Martin, Robert Calvin	CE	Jr	Kenwood, Calif.
Martinelli, Ernest	A&S	Jr	Sparks
Martinez, Stella A.	A&S	Fr	Reno
Martinson, John Elwyn	MM	Sr	Park City, Utah
Marvel, John Wyland	A&S	Fr	Battle Mountain
Marx, Anneliese	HE	So	San Francisco, Calif.
Mason, Robert Crosby	A&S	Fr	Reno
Mason, Ruth Fowler	A&S	Sp	Reno
Mathews, Frank Douglas	A&S	Fr	Boulder City



Name	College	Classification	Home Address
Mathiesen, Charles Hardy	Ag	Fr	Carson City
Mathias, Joe Robinson	MM	Jr	Shafter, Calif.
Matteoni, Silvano J.	A&S	So	Sparks
Matteucci, Albert	A&S	Fr	Las Vegas
Matteucci, Malcom Gene	A&S	Fr	Las Vegas
Maynard, Russell James	A&S	Fr	Reno
Mayo, Charles Summer	EE	Jr	Reno
Mazza, Marcella Nataline	A&S	Fr	Reno
McAlear, Allen Lee	A&S	Fr	Red Lodge, Montana
McBride, Emma Jeanne	A&S	Sr	Clovis, N. M.
McBride, Gerald John	A&S	So	Elko
McCabe, Joan Irene	A&S	Fr	Los Angeles, Calif.
McCabe, William L., Jr.	A&S	So	Reno
McCartney, Lyle Oakley	Ag	Jr	Elko
McCloskey, Conrad W.	EE	So	Reno
McCloskey, Stehen W.	A&S	Fr	Lovelock
McClure, Harriette Marie	A&S	Fr	Reno
McClurkin, Marjorie E.	A&S	Jr	Reno
McConaughy, Alfred		Gr	Sparks
McConville, Lee Bernard, Jr.	MM	Sr	Los Angeles, Calif.
McCormack, Robert Michael	ME	So	San Enselmo, Calif.
McCrae, Robert George	MM	So	Frederick, Colo.
McCray, Elinor Mae	A&S	So	Reno
McCray, Vernon Hamlin	A&S	Fr	Reno
McCuition, Robert Dean	A&S	So	Sparks
McCulloch, John Shurtliff	EE	So	Elko
McCutcheon, Edwin Lage	EE	Fr	El Paso, Texas
McDonald, Marigene C.	A&S	Fr	Reno
McDonough, Shirley Ann	A&S	So	Reno
McEachern, John Russell	EE	Fr	Lovelock
McElawin, Joyce Elizabeth	A&S	So	Reno
McFadden, Albert Joseph	EE	So	Las Vegas
McFarland, Billy Joe	A&S	Jr	Houston, Texas
McFarland, James G.	A&S	So	San Francisco, Calif.
McFarlane, Margaret	A&S	So	Sacramento, Calif.
McGoodwin, John William	A&S	Fr	Henderson
McGowan, Roger J.	A&S	So	Hawthorne
McGuire, Raymond Adam	A&S	Sr	Reno
McHatton, Elwood Gordon	A&S	Fr	Chico, Calif.
McKenna, Charles P., Jr.	ME	Fr	Annandale, Va.
McKenna, Eugene Morgan	A&S	So	Sparks
McKenzie, Lester Angus	Ag	So	Paradise Valley
McKernon, Helen Porter	A&S	Sp	Reno
McKissick, Howard F., Jr.	A&S	So	Reno
McKnight, Margery	A&S	Fr	Reno
McLaughlin, Leonard J.	A&S	Fr	Providence, R. I.
McLean, John B.		Gr	Menlo Park, Calif.
McMichael, Junerwanda	A&S	Sr	Reno
McMurray, Myrtle Ruth	EE	Fr	Pioche
McNeilly, Harold Dean	Ag	Sr	Reno
McNutt, Wesley Reed	A&S	Fr	Ely
McPherson, Donald Lee	A&S	Fr	Sutter Creek, Calif.

Name	College	Classification	Home Address
McQueen, Effie Jensen.....	A&S	Sr.....	Reno
McTavish, Jane Elizabeth.....	A&S	Fr.....	Burlingame, Calif.
McVae, Douglas Keith.....	EE	Fr.....	Elko
McVey, Phillip Bernard.....	Ag	Sp.....	Reno
Meacham, Warren Edgar.....	CE	So.....	Bishop, Calif.
Means, Jack Abbott.....	CE	So.....	Reno
Means, Lawrence George.....	CE	Fr.....	Reno
Mecham, Ferris Joseph.....	CE	So.....	Virginia City
Meckes, Billie Rose.....	A&S	Fr.....	Reno
Meffley, Richard Weber.....	CE	Sr.....	Graeagle, Calif.
Meiser, Vernon Melville.....	CE	So.....	Reno
Melarkey, Daniel Campbell.....	Ag	So.....	Honolulu, Hawaii
Melcher, Joe Franklin.....	A&S	Fr.....	Reno
Melendy, Patricia Anne.....	IIE	Fr.....	Reno
Mellon, Benita.....	HE	Fr.....	Truckee, Calif.
Melner, Sinclair Lewis.....	A&S	Sr.....	Reno
Menard, Alan George.....	ME	Fr.....	Reno
Mendive, Louis Steve.....	A&S	So.....	Battle Mountain
Menesini, Ray.....	CE	Fr.....	Yerington
Menicucci, Joseph Michael.....	A&S	Fr.....	Reno
Menke, Eugene Monroe.....	EE	Jr.....	Reno
Mentaberry, Fausto V.....	A&S	Sr.....	Winnemucca
Menu, Glen Eugene.....	EE	So.....	Reno
Menu, Marjorie J.....	A&S	Sr.....	Reno
Meredith, Thomas Keith.....	CE	So.....	Reno
Merwin, Shirley June.....	A&S	So.....	Clarksburg, Calif.
Messer, Edward John.....	EE	Fr.....	Bishop, Calif.
Metcalfe, John Moulton.....	MM	Fr.....	Reno
Metzger, William Thompson.....	A&S	Fr.....	Reno
Metzker, Donald James.....	A&S	Fr.....	Reno
Michael, John Harold.....	A&S	Jr.....	Sacramento, Calif.
Micheo, Mary Grace.....	A&S	Fr.....	Gardnerville
Mickelson, Merton Marion.....	A&S	Sr.....	Fallon
Mieding, John Fred.....	MM	Fr.....	Los Angeles, Calif.
Mikulich, Andrew John.....	A&S	Fr.....	Las Vegas
Milburn, John Francis.....	A&S	Fr.....	Philadelphia, Pa.
Miles, Charles Henry, Jr.....	A&S	So.....	Las Vegas
Miles, Joanne Cecelia.....	A&S	Fr.....	Carson City
Miles, Richard Lloyd.....	A&S	So.....	San Pablo, Calif.
Miller, Ethel Lillian.....	A&S	Fr.....	Reno
Miller, John Randall.....	A&S	Sr.....	Carson City
Miller, Joseph.....	ME	Fr.....	Kimberly
Miller, Marnie Eldina.....	A&S	Fr.....	Winnemucca
Miller, Oliver Ray.....	A&S	Fr.....	Reno
Miller, Richard Grant.....	A&S	Sp.....	Reno
Miller, Robert William.....	EE	So.....	Lovelock
Miller, Wendell Artell.....	CE	So.....	Reno
Miller, William Vinton.....	ME	Fr.....	Alturas, Calif.
Miller, Winneva Fern.....	A&S	Fr.....	Winnemucca
Millinger, Jack Leverne.....	EE	So.....	Sparks
Mills, Gene Aubrey.....	A&S	So.....	Markleeville, Calif.

Name	College	Classification	Home Address
Mills, Richard Knowles.....	A&S	So.....	Reno
Mills, Robert Bruce.....	ME	So.....	Mill Valley, Calif.
Mills, Russell Gerow.....	CE	Fr.....	Reno
Minor, Beverly Jean.....	A&S	Sr.....	Reno
Minor, Gene Savery.....	Ag	Fr.....	Reno
Mirabelli, Michael A.....	A&S	So.....	Las Vegas
Miramón, Alfred M., Jr.....	CE	Fr.....	Reno
Mitchell, James Stewart.....	CE	Fr.....	Esparto, Calif.
Moell, James Laban.....	A&S	So.....	Elko
Molignoni, Bonny Louise.....	A&S	Jr.....	Reno
Molk, Ashley Jay.....	ME	So.....	San Dimas, Calif.
Molk, Marguerite Cox.....	A&S	Sr.....	Lake Charles, La.
Monroe, Lucille.....	A&S	So.....	Las Vegas
Montero, Helen D.....	A&S	So.....	Winnemucca
Moore, Bebe Ann.....	A&S	Fr.....	Gabbs
Moore, David Sturtevant.....	A&S	Sp.....	Carmel, Calif.
Moore, Donna Mae.....	HE	Fr.....	Indianapolis, Ind.
Moore, Edith Maxine.....	A&S	So.....	Winnemucca
Moore, Frances Jean.....	A&S	Fr.....	Boulder City
Moore, Frank Charles.....	MM	Jr.....	Searchlight
Moore, Gail Maree.....	A&S	So.....	Reno
Moore, Joseph Eli, Jr.....	A&S	Jr.....	Winnemucca
Moore, Paul, Jr.....	A&S	Fr.....	Imlay
Moore, Paul Lyster.....	A&S	Fr.....	Reno
Moore, Richard Vernon.....	A&S	So.....	Fargo, N. D.
Moore, Robert Herbert.....	A&S	Fr.....	Santa Cruz, Calif.
Moore, Robert James.....	A&S	Fr.....	Winnemucca
Moore, Virginia King.....	A&S	Sp.....	Reno
Morehead, Henry I.....	ME	Sr.....	Reno
Morey, Beverly Marion.....	HE	So.....	Long Beach, Calif.
Morgans, Elizabeth Ann.....	A&S	So.....	Reno
Morita, Shinji Joseph.....	A&S	So.....	Las Vegas
Morley, Ernest Floyd.....	A&S	Fr.....	Ely
Morrice, Edward, Jr.....	MM	Jr.....	San Francisco, Calif.
Morris, Conrad Neil.....	ME	Fr.....	Big Pine, Calif.
Morris, Donald Howard.....	A&S	Sp.....	Golden, Colo.
Morris, James Mervyn, Jr.....	CE	Sr.....	Sacramento, Calif.
Morris, Joel Maurice.....	MM	Jr.....	Van Nuys, Calif.
Morris, Nora.....	A&S	Sr.....	Tonopah
Morris, William Wesley.....	A&S	So.....	Las Vegas
Morrison, Darrol Hugh.....	A&S	So.....	Eureka
Morrison, Robert Andrew.....	A&S	So.....	Reno
Morrow, Leslie Edward.....	A&S	So.....	Modesto, Calif.
Mortara, Rita Rena.....	A&S	So.....	Reno
Morton, James Roy.....	A&S	Fr.....	San Francisco, Calif.
Morton, Robert William.....	CE	Fr.....	Reno
Moulton, Mary.....	A&S	Sp.....	Reno
Moyer, Harlan Ernest.....	CE	Fr.....	Alturas, Calif.
Moylan, William Richard.....	A&S	So.....	Peoria, Ill.
Muguira, Dorothea.....	A&S	Fr.....	Reno
Muguira, Evelyn Angela.....	A&S	Fr.....	Reno

Name	College	Classification	Home Address
Mulert, Howard Max.....	A&S.....	Fr.....	Reno
Muller, Leopold Frederic.....	MM.....	So.....	Carson City
Munk, Wayne Mercer.....	ME.....	Fr.....	Lovelock
Munley, John Harold.....	ME.....	So.....	Reno
Munter, Dean Elwin.....	CE.....	Fr.....	Polson, Montana
Murdough, Adele Marsh.....		Gr.....	Reno
Murdough, Charles Edward.....	A&S.....	So.....	Reno
Murphy, Frederick Alexander.....	MM.....	Fr.....	San Francisco, Calif.
Murphy, Harold Dale.....	A&S.....	So.....	Wells
Mustard, Donald L.....	ME.....	Jr.....	Fallon
Myers, Gail Nadina.....	A&S.....	Fr.....	Reno
Myers, Robert Taylor.....	A&S.....	Sr.....	Reno
Mygatt, Pete.....	A&S.....	So.....	Rancho Taos, N. M.
Myhre, Elma E.....	A&S.....	Sp.....	Pembina, N. D.
Nagel, William Leroy.....	CE.....	Fr.....	Carson City
Nall, Darrell Stephen.....	MM.....	Fr.....	Stockton, Calif.
Nannini, Florindo.....		Gr.....	Reno
Nannini, Louis George.....	ME.....	So.....	Golconda
Nash, Jean.....	A&S.....	So.....	Las Vegas
Naveran, Angela Gloria.....	A&S.....	So.....	Battle Mountain
Neal, Marilyn June.....	A&S.....	So.....	Winnemucca
Neale, Lael Porter.....	A&S.....	Fr.....	Peru
Neddenreip, Chris Gerald.....	A&S.....	So.....	Gardnerville
Nellis, Harold Eugene.....	MM.....	Jr.....	Boulder City
Nelson, Fred Albert.....	A&S.....	Fr.....	Dixon, Illinois
Nelson, Robert Merwin.....	A&S.....	Sr.....	Kirkland, Wash.
Nevin, Michael Robert.....	A&S.....	Fr.....	Virginia City
Newell, George Edward.....	ME.....	So.....	Yerington
Nichols, Ward William.....	A&S.....	Sr.....	Reno
Nicolay, Larned Jay.....	A&S.....	Fr.....	Pomona, Calif.
Nielsen, Joyce Winifred.....	A&S.....	Sr.....	Reno
Nielsen, Marion Jeanne.....	A&S.....	So.....	Reno
Nielsen, Thelma.....	A&S.....	Sp.....	Reno
Nocciolo, Albert.....	A&S.....	Fr.....	Belle, N. J.
Nojima, Tetsuo Roy.....	MM.....	So.....	Elko
*Nooney, Grove Crawford.....	A&S.....	Fr.....	Las Vegas
*Nord, Earnest Wilhelm.....	ME.....	So.....	Minneapolis, Minn.
Norman, Ronald Victor.....	A&S.....	Fr.....	Reno
Norris, Eleanor Kathleen.....	A&S.....	So.....	Berkeley, Calif.
Novoa, Fidel A.....	Ag.....	Sp.....	San Salvador, C. A.
Nugent, Lois Soucek.....	A&S.....	Sp.....	Los Angeles, Calif.
Nugent, Vaughn Bruce.....	MM.....	Fr.....	Quincy, Calif.
Nugent, William Francis.....	CE.....	Fr.....	Sparks
Nussbaum, Serge Jean.....	MM.....	So.....	France
Oberholzer, Jacob Leonhart.....	EE.....	So.....	Honolulu, Hawaii
O'Brien, Leo Martin, Jr.....	A&S.....	So.....	Herlong, Calif.
O'Brien, Patricia V.....	A&S.....	Fr.....	Reno
O'Connell, Richard Kevin.....	A&S.....	Sr.....	Milton, Mass.
O'Hagan, Donald Henry.....	CE.....	Jr.....	Portland, Oregon
Oki, Wataru.....	A&S.....	Fr.....	East Ely
Olesen, Barbara Ann.....	A&S.....	Sr.....	Lovelock

Name	College	Classification	Home Address
Olguin, Daniel John.....	A&S.....	Jr.....	Sparks
Olinghouse, Kenneth R.....	ME.....	So.....	Pioche
Olmsted, Roger Robertson.....	A&S.....	So.....	San Mateo, Calif.
Olsen, Norman Otis.....	A&S.....	Fr.....	Reno
O'Malia, Thomas H., Jr.....	ME.....	Fr.....	Hawthorne
Orlich, Daniel.....	A&S.....	So.....	Chisholm, Minn.
Orr, John Alexander.....	A&S.....	So.....	Pioche
Orrock, Thomas H.....	EE.....	Jr.....	Pioche
Osborne, Lloyd B.....	MM.....	Fr.....	Reno
Osborne, William Eugene.....	A&S.....	Fr.....	Long Beach, Calif.
Ott, Emil J. N., III.....	A&S.....	So.....	Sacramento, Calif.
Ousley, Liermann Richard.....	EE.....	Fr.....	Las Vegas
Owen, Henry Jackson.....	EE.....	Sr.....	Beach Grove, Ark.
Oyarbide, Pela Adele.....	A&S.....	Sr.....	Battle Mountain
Oyarbide, Rose.....	A&S.....	Fr.....	Battle Mountain
Packard, William Donald.....	MM.....	So.....	Sacramento, Calif.
Page, Wanda Willyene.....	IIE.....	Fr.....	Elko
Paille, Harry.....		Gr.....	Reno
Palmer, Arthur J., Jr.....	A&S.....	Jr.....	Bloomfield, N. J.
Palmer, Robert Arthur.....	A&S.....	Jr.....	Rochester, N. Y.
Panelli, Giulio Carlo.....	ME.....	So.....	Verdi
Papadopoulos, Emanuel John.....	ME.....	Fr.....	Sacramento, Calif.
Papaeliou, Vasilios Elias.....	A&S.....	Fr.....	Reno
Pardee, Barbara Joyce.....	A&S.....	So.....	Sacramento, Calif.
Parke, Jack Evan.....	ME.....	Fr.....	Reno
Parker, Barbara June.....	IIE.....	Fr.....	Carson City
Parker, Girard.....	A&S.....	Sr.....	Reno
Parker, James Oakley.....	A&S.....	So.....	Hawthorne
Parker, Laurel Lee.....	A&S.....	Fr.....	Reno
Parks, Lucile Snider.....		Gr.....	Reno
Paterson, Robert Andrew.....	A&S.....	Jr.....	Reno
Patrick, Charles.....	A&S.....	So.....	Newark, N. J.
Patrick, Robert Lloyd.....	ME.....	So.....	Reno
Patterson, Doris.....	A&S.....	Sr.....	Dyer
Patti, John Anthony.....	A&S.....	Jr.....	Girard, Ohio
Payne, Donald Ray.....	EE.....	Fr.....	Las Vegas
Payne, Phillip Wallace.....	A&S.....	So.....	Las Vegas
Pearce, Robert Hesson.....	CE.....	Fr.....	Elko
Pederson, Roger John.....	EE.....	Fr.....	Grants Pass, Ore.
Peirson, Doris Mae.....	A&S.....	Fr.....	China Lake, Calif.
Peirson, James Marlow.....	A&S.....	So.....	China Lake, Calif.
Pelizzari, John Row.....	A&S.....	So.....	Reno
Pelter, Peggy May.....	A&S.....	Fr.....	Reno
Pence, George Emel, Jr.....	MM.....	Fr.....	Susanville, Calif.
Percy, Vivian Joyce.....	A&S.....	Sr.....	Reno
Perdue, Mary Ellen.....	A&S.....	Fr.....	Reno
Perez, Joseph Fernando.....	A&S.....	Fr.....	Monterey, Calif.
Perkins, Jane Hazel.....	A&S.....	Sr.....	Tonopah
Persigehl, Richard L.....	CE.....	Fr.....	Tonopah
Peters, Ray Cameron, Jr.....	A&S.....	Fr.....	Sparks
Peters, Stanlibeth.....	A&S.....	Fr.....	Albuquerque, N. M.

Name	College	Classification	Home Address
Petersen, Jacquelyn C.....	A&S.....	Sr.....	Reno
Peterson, Dwight Warren.....	A&S.....	Fr.....	Babbitt
Peterson, Laura Leeds.....	A&S.....	So.....	Sparks
Pettis, Alice Lillian.....	A&S.....	So.....	Reno
Pettis, Ethel Annie.....	A&S.....	Sr.....	Reno
Petty, William Don.....	A&S.....	Fr.....	Sparks
Peyron, Maurice Paul.....	A&S.....	Jr.....	Pocatello, Idaho
Pfeiffer, Albert Byron.....	Ag.....	Sp.....	Rebel Creek
Phelan, Phyllis Evelyn.....	A&S.....	So.....	Alturas, Calif.
Phelps, Ray.....	ME.....	Fr.....	Blue Diamond
Phillips, Rhoda Mae.....	A&S.....	Fr.....	Reno
Phillips, Wendell James.....	MM.....	Jr.....	Stockton, Calif.
Picchi, Ann Marie.....	A&S.....	Fr.....	Sparks
Piccini, Matthew Joseph.....	MM.....	So.....	Newark, N. J.
Piccinini, Marian Catherine.....	A&S.....	Fr.....	Carlin
Piccinini, Richard B.....	A&S.....	Fr.....	Carlin
Pickens, Carolyn Jean.....	A&S.....	So.....	Reno
Pico, Louis C., Jr.....	EE.....	Jr.....	Las Vegas
Piccolo, Marvin Eugene.....	A&S.....	So.....	McGill
Pierce, Stanley William.....	A&S.....	Fr.....	Elko
Pilkington, Dorothy.....	A&S.....	Sr.....	Reno
Pinjuv, George Ivan.....	A&S.....	Sp.....	Las Vegas
Plummer, Walter Wm.....	A&S.....	So.....	Carson City
Pontecorvo, Anthony.....	ME.....	So.....	New York, N. Y.
Poole, Doris Beverly.....	HE.....	Fr.....	Sparks
Poolman, Rosemary Gianelli.....	A&S.....	So.....	Stockton, Calif.
Pope, Charles Avery.....		Gr.....	Reno
Pope, Donald Avery.....	A&S.....	Fr.....	Reno
Pope, Girdwood, Craig.....	MM.....	So.....	Alameda, Calif.
Pope, Rachel Martin.....	A&S.....	So.....	Glen Ellyn, Ill.
Poppe, Louis J.....	A&S.....	Jr.....	Reno
Porteous, Marvin Fred.....	MM.....	Sr.....	Hazen
Porter, Louis Keith.....	MM.....	So.....	Las Vegas
Porter, Robert Day.....	EE.....	Fr.....	Reno
Porter, Tad.....	A&S.....	Fr.....	Las Vegas
Potts, George Francis.....	Ag.....	Sr.....	Reno
Poulakidas, Nick.....	Ag.....	Fr.....	Kimberly
Poulsen, Gladys Kunau.....	A&S.....	Fr.....	Reno
Powell, Joan Ann.....	A&S.....	Fr.....	Las Vegas
Powell, June Ann.....	HE.....	Fr.....	Las Vegas
Powell, Shirley Ann.....	A&S.....	Fr.....	Henderson
Prater, LeRoy Calvin.....	A&S.....	Fr.....	Loyalton, Calif.
Price, Maynard Grant.....	A&S.....	Fr.....	Reno
Price, Michael Akim.....	MM.....	Fr.....	Los Angeles, Calif.
Price, Milo V.....	A&S.....	Jr.....	Yugoslavia
Pridgen, Glenn Orien.....	A&S.....	So.....	Ft. Lauderdale, Fla.
Pringle, John Alex.....	A&S.....	Fr.....	Reno
Pringle, Robert Sheldon.....	ME.....	Fr.....	Reno
Proctor, Harold W., Jr.....	EE.....	Fr.....	Sparks
Proctor, Jean Marie.....	A&S.....	Sr.....	Kimberly
Proietti, George Dale.....	A&S.....	Fr.....	Reno
Prugh, Walter Hamilton.....	A&S.....	So.....	San Francisco, Calif.

Name	College	Classification	Home Address
Puddington, Georgianna.....	A&S	Fr.....	Reno
Pulsiher, Charles Kay.....	A&S	Fr.....	Logandale
Putnam, Vernon Guy.....	ME	Fr.....	Reno
Pyper, Stanley Dean.....	A&S	Fr.....	Wells
Quackenbush, Marie Louise.....	A&S	Fr.....	Reno
Quackenbush, Mynard Daryle.....	EE	So.....	Chamberlain, S. D.
Quilici, Basil Angelo.....	A&S	Fr.....	Yerington
Quilici, Theodore.....	Ag	Fr.....	Smith
Raarup, Ruth Stapley.....	A&S	Fr.....	Bridgeport, Conn.
Rabenstine, Wallace J. J.....	CE	So.....	Mt. Holly, N. J.
Radovich, Robert.....	A&S	So.....	Reno
Raggio, William John, Jr.....	A&S	So.....	Reno
Raker, Donnel Ray.....	MM	Fr.....	Henderson
Ramelli, Donald Edwin.....	Ag	Jr.....	Reno
Ramelli, Theodore Ward.....	Ag	So.....	Vinton
Rankin, Robert John.....	MM	Fr.....	New York, N. Y.
Rassuchine, Alex Vldemir.....	A&S	Fr.....	Reno
Rastelli, Joe Martin.....	ME	Fr.....	Reno
Ravve, Abraham.....		Gr.....	Los Angeles, Calif.
Raw, Jwood.....	A&S	Fr.....	Sparks
Ray, Donald Bradford.....	A&S	Jr.....	Caliente
Ray, James Chandler.....	CE	Fr.....	San Francisco, Calif.
Ray, Jane Marilyn.....	A&S	So.....	Caliente
Ray, Leslie Lund.....	A&S	So.....	Sullivan, Ind.
Read, Robert Keith.....	A&S	Fr.....	Carson City
Reading, George Edward.....	A&S	So.....	Carson City
Reagor, Vincent West.....	A&S	Fr.....	Reno
Reed, Edward Cornelius.....	A&S	Jr.....	Reno
Reed, George Theodore.....	Ag	Fr.....	Lovelock
Reed, Thomas Edward.....	A&S	Fr.....	Sparks
Reese, Leland Stanford, Jr.....	A&S	Sr.....	Reno
Reeves, Lois Frances.....	A&S	Sr.....	Babbitt
Reeves, Robert Grier.....	MM	Jr.....	Placerville, Calif.
Reid, Donald Aldro.....	MM	So.....	Searchlight
Reifschneider, Olga A.....	A&S	Sr.....	Reno
Reimer, Paul Oscar, Jr.....	CE	So.....	Alturas, Calif.
Reinhardt, Thomas Adolph.....	ME	Jr.....	Jasper, Minn.
Reinkin, William A.....	MM	So.....	Reno
Renner, Elizabeth Marie.....	A&S	Fr.....	Tahoe City, Calif.
Revene, Joseph G.....	A&S	Sp.....	Bronx, N. Y.
Reynolds, Betty Jean.....	A&S	So.....	Reno
Reynolds, Ralph Edwin.....	A&S	Sr.....	San Francisco, Calif.
Rhodehamel, Jean Charlotte.....	A&S	Fr.....	Boulder City
Rice, Daniel Alan.....	EE	Sr.....	Reno
Rice, Elizabeth Anna.....	A&S	Jr.....	Reno
Rice, Kenneth Taylor, Jr.....	ME	So.....	Reno
Rice, Robert Marshall.....	A&S	Jr.....	Healdton, Okla.
Richards, Eric Leonard.....	A&S	Jr.....	Reno
Richards, Glen Homer.....	EE	Fr.....	Reno
Richards, Paul A.....	A&S	Fr.....	Reno
Richards, Walter Everard.....	A&S	Fr.....	Las Vegas

Name	College	Classification	Home Address
Richards, William Evarts.....	MM.....	Fr.....	Las Vegas
Richardson, Albert Edward.....	A&S.....	So.....	Reno
Richardson, Joseph A., Jr.....	A&S.....	Fr.....	Las Vegas
Richardson, Ralph Nesbit.....	A&S.....	Fr.....	Los Angeles, Calif.
Rickenbach, Alta Jean.....	A&S.....	Fr.....	Elko
Ricker, George Elwood.....	A&S.....	Sr.....	Reno
Ricketts, Rex Allen, Jr.....	MM.....	Sr.....	Yerington
Riddle, Dale J.....	A&S.....	Fr.....	Lovelock
Riehl, Laurien Eugene.....	A&S.....	Fr.....	Carson City
Rigby, William George.....	CE.....	Fr.....	Reno
Riggle, Carl Clayton.....	EE.....	So.....	Sparks
Riggle, Walter Raymond.....	ME.....	Sr.....	Sparks
Riggs, Homer Lynn.....	A&S.....	So.....	Salt Lake City, Utah
Riley, Linford Dale, Jr.....	A&S.....	Jr.....	Yerington
Rippe, Ben Kroll.....	CE.....	So.....	San Anselmo, Calif.
Risard, Alice Williams.....	A&S.....	Sr.....	Elko
Risard, Martin Hector, Jr.....	A&S.....	Sp.....	Reno
Rittenhouse, Franklin P. R.....	A&S.....	Sr.....	Las Vegas
Rivero, Louis Eugene.....	A&S.....	Fr.....	Tonopah
Roberts, Jerry Milton.....	EE.....	So.....	Reno
Robins, Frank W.....	A&S.....	So.....	Winnemucca
Robinson, Carl Maurice.....	A&S.....	Jr.....	Visalia, Calif.
Robinson, Hampden Disney.....	A&S.....	So.....	Reno
Rodriguez, Martin.....	A&S.....	Fr.....	Kimberly
Rogers, Allen Stuart.....	MM.....	Jr.....	Berkeley, Calif.
Rogers, Lloyd Alby.....	A&S.....	Sr.....	Reno
Rogers, Will.....	A&S.....	So.....	Reno
Rollins, William Arthur.....	A&S.....	So.....	Reno
Root, Helene Anne.....	A&S.....	So.....	Reno
*Root, Lloyd Leo, Jr.....	MM.....	Sr.....	Reno
*Roscoe, Clara Adams.....	A&S.....	Sp.....	Heppner, Ore.
Roscoe, John G.....	MM.....	Sr.....	Nevada City, Calif.
Rose, Harvey Noel.....	A&S.....	So.....	Reno
Rosenberry, Charlotte Dell.....	A&S.....	So.....	Reno
Ross, Ann Louise.....	A&S.....	Fr.....	Las Vegas
Ross, John Thomas.....	A&S.....	Fr.....	Carson City
Rotter, Mary Delores.....	A&S.....	Fr.....	Reno
Rovetti, Melvin Gene.....	A&S.....	Sr.....	Reno
Rowland, Francis Marion.....	Ag.....	Fr.....	Doyle
Rowley, Janeth Arvilla.....	A&S.....	Sr.....	Sparks
Rowley, Richard Belnap.....	A&S.....	So.....	Reno
Royle, Patricia Margaret.....	A&S.....	Fr.....	Reno
Rude, Lloyd Earl.....	A&S.....	Sp.....	Sparks
Ruebsam, Edith M.....		Gr.....	Reno
Rule, Jeanne Ellin.....	A&S.....	Fr.....	Reno
Rummel, William George.....	A&S.....	Fr.....	Munhall, Pa.
Rupp, Betty Jo.....	HE.....	Fr.....	Bishop, Calif.
Russell, Pauline Claire.....	A&S.....	Fr.....	Boulder City
Russler, Donald Fredrick.....	MM.....	So.....	Elk Grove, Calif.
Ryan, Bill Chatten.....	A&S.....	So.....	Las Vegas
Ryan, James Arthur.....	ME.....	So.....	Austin



Name	College	Classification	Home Address
Sadler, Patricia Gloria	A&S	Jr.	Reno
Sale, Vera Gertrude	A&S	Sp.	Reno
Salemi, Paul John	A&S	Sp.	Reno
Salter, Thomas J., Jr.	EE	Sr.	Reno
Samuelson, Beverly Marr	A&S	Fr.	Reno
Sanches, Frank S., Jr.	A&S	Fr.	Sacramento, Calif.
Sanchez, John	A&S	So.	Ruth
Sancic, Charles S.	A&S	So.	Kent, Ohio
Sanderson, Ida Bess	A&S	So.	Elko
Sanford, Gertrude Harriet	HE	So.	Reno
Sanford, Joanne Lenora	HE	Fr.	Reno
Sarasua, Robert Joseph	A&S	So.	Reno
Sasenbery, Homer Glenn	CE	Fr.	Napa, Calif.
Saulisberry, Charles Nash	Ag	Fr.	Chicago, Ill.
Saunders, Nora Lorene	A&S	Sr.	Winnemucca
Saurenon, John Marion	A&S	Fr.	Reno
Savidge, David	A&S	So.	Petaluma, Calif.
Savidge, William, Jr.	A&S	Fr.	Petaluma, Calif.
Savini, Sam	A&S	Fr.	Yerington
Sawyer, John Franklin	A&S	Fr.	Sparks
Seanon, Margaret Mary	A&S	Fr.	Reno
Schaad, Carlyle Dale	A&S	Fr.	Seneca, Ill.
Scharer, Marjorie Maye	A&S	Fr.	Las Vegas
Schiller, Jacob	A&S	Sp.	Winter Park, Fla.
Schoenfeld, Ernest H., Jr.	CE	Fr.	Springfield, Mass.
Scholz, Melville Fredrick	CE	So.	Fallon
Schon, Michael Fredrick	A&S	Fr.	Reno
Schulz, Wallace Wendell	A&S	Jr.	Westwood, Calif.
Schumacher, Robert T.	A&S	Fr.	Reno
Schumacher, Wendell Harris	Ag	Fr.	Maquoketa, Iowa
Schwartz, Lyman Wayne	A&S	Jr.	Paradise Valley
Schwartz, Mary Ellen	A&S	Sr.	Goodsprings
Schoffield, Ray Flint	CE	So.	Oakland, Calif.
Scofield, Marilyn Bertha	A&S	Fr.	San Diego, Calif.
Scott, Edward St. Clair	MM	Sr.	Santa Ana, Calif.
Scott, James Burton	MM	Sp.	Reno
Scott, Lee Everett	MM	Fr.	Elko
Scott, Mary Lee	A&S	So.	Carson City
Scott, Elizabeth Leeds	A&S	Fr.	Reno
Scruggs, Armena Fritz		Gr.	Reno
Serpentino, Lorraine	A&S	Sr.	Reno
Sewell, Mary Louise	A&S	So.	Reno
Shaw, Rondell Bryce	EE	Jr.	Reno
Shaw, Virginia	Ag	So.	Reno
Shawe, Cora Lee	A&S	Jr.	Gardnerville
Shawe, Fred Rhodes	MM	So.	Gardnerville
Sheahan, Daniel Robert	MM	Fr.	Caliente
Sheahan, Horace Patrick	MM	Fr.	Caliente
Sheldon, Wayne Francis	Ag	Fr.	Elko
Shepard, Patricia Ruth	A&S	So.	Sparks
Shepard, William Edward	ME	Fr.	Henderson

Name	College	Classification	Home Address
Sherman, Tho Ted	Ag	Sp	Reno
Sherwood, William Henry	A&S	Jr	Reno
Shevlin, John Edward	CE	Fr	Reno
Shields, Charles Lester	A&S	Fr	Tonopah
Shipaugh, Ruth	A&S	So	Reno
Shoemaker, David Whitman	MM	Fr	Santa Monica, Calif.
Short, Carl Jerry	A&S	So	Sparks
Short, Charles Robert	EE	Jr	Reno
Sieber, Richard	A&S	Fr	Canton, Ohio
Siler, William Millard	A&S	Fr	Walnut Creek, Calif.
Silliman, Floyd	A&S	Fr	Ely
Silsby, Donald Dale	A&S	Sp	Pinedale, Calif.
Silsby, Elizabeth Roth	A&S	Fr	Reno
Simon, Beverly Rae	A&S	Fr	Reno
Simon, Marjorie Marie	A&S	Jr	Las Vegas
Simons, John Powell	MM	Jr	Sierra Madre, Calif.
Simons, William Walter	A&S	Fr	Reno
Simpson, John Hampton	MM	Fr	Goldfield
Singleton, Robert Addison	A&S	Sr	Sparks
Sinofsky, Kenneth Jack	A&S	Jr	E. Rutherford, N. J.
Sirkegian, Jacqueline Dora	A&S	Fr	Kimberly
Slattery, William H., Jr.	EE	Fr	Fallon
Sloan, Jane Ann	HE	So	Oakland, Calif.
Sloan, Loran Gerald	A&S	Fr	Covina, Calif.
Smales, Donald William	A&S	So	Elko
Smales, John Frederick	CE	Fr	Elko
Small, James Garfield	A&S	Sr	Reno
Smart, Clyde S., Jr.	CE	So	San Francisco, Calif.
Smart, Donald Cleveland	A&S	So	Reno
Smart, Doris Andrea	A&S	So	Reno
Smart, Stanley Hardy	A&S	Sp	Reno
Smiley, Muriel E.	A&S	So	Wells
Smith, Alfred James	A&S	Sp	Sparks
Smith, Alva Eugene	A&S	So	LaGrange, Ill.
Smith, Barbara Irene	A&S	So	Sparks
Smith, Carlton Stanley	A&S	Sr	LaGrange, Ill.
Smith, Charles Hogue	A&S	So	Reno
Smith, Donald Floyd	A&S	Fr	Ely
Smith, Douglas Rex	A&S	Fr	Riverside, Calif.
Smith, George Evans	A&S	Fr	Reno
Smith, Gerald Charles	ME	Fr	Ruth
Smith, Horace Emery	A&S	Fr	Wells
Smith, James Howard, Jr.	MM	So	Colfax, Calif.
Smith, James Theodore	A&S	So	Reno
Smith, James Wallace	A&S	Fr	Fallon
Smith, Janet Holland	A&S	So	East Ely
Smith, John William	CE	Jr	Vallejo, Calif.
Smith, LaMar Ralph	A&S	So	Fallon
Smith, Peter Mitchell, Jr.	A&S	Sp	Reno
Smith, Robert Alfred	A&S	Jr	Del Paso Hgts., Cal.
Smith, Ros Wilbert	MM	So	Watsonville, Calif.

Name	College	Classification	Home Address
Smith, Ruth Elizabeth.....	A&S.....	So.....	Babbitt
Smith, Susan.....	A&S.....	So.....	Los Angeles, Calif.
Smith, William Freeman.....	MM.....	Fr.....	Las Vegas
Smithwick, Hubert.....	A&S.....	Sr.....	Reno
Smithwick, Opal Marie.....	A&S.....	Fr.....	Beowawe
Smolinski, Norbert.....	A&S.....	So.....	Chicago, Ill.
Snider, Kenneth Howard.....	A&S.....	So.....	Truckee, Calif.
Snyder, John Alford.....	EE.....	Fr.....	Hawthorne
Snyder, Orrin Edwin.....	A&S.....	Sp.....	Reno
Sodja, William Mathew.....	ME.....	Sr.....	Tooele, Utah
Sommer, Charles R.....	EE.....	Jr.....	Reno
Sorensen, Alfred J.....	A&S.....	So.....	Sparks
Sorensen, Arlene Marie.....	A&S.....	Sr.....	Reno
Sorensen, Della Vienna.....	A&S.....	So.....	Reno
Spell, Jacqueline Patricia.....	A&S.....	Fr.....	McGill
Spencer, Harry Patric.....	A&S.....	Fr.....	Ft. Lauderdale, Fla.
*Sperbeck, Joan Ailene.....	A&S.....	Fr.....	Las Vegas
*Spencer, Wallace Duane.....	MM.....	Fr.....	Ruth
Spieldoch, Richard Barry.....	ME.....	Fr.....	San Francisco, Calif.
Spinetti, Eugene Burton.....	A&S.....	Fr.....	Jackson, Calif.
Spirig, John Joseph.....	A&S.....	Jr.....	Hyde Park, N. Y.
Spitz, Louis Paul.....	A&S.....	Sr.....	Reno
Spoon, John David.....	ME.....	So.....	Susanville, Calif.
Spradling, Delores Irene.....	A&S.....	Fr.....	Reno
Sprague, Charles Wayne.....	Ag.....	Fr.....	Overton
Springer, Charles E.....	A&S.....	Fr.....	Reno
Sprout, Eugene Clifford.....	CE.....	So.....	Herlong, Calif.
Stafford, Victor Haig.....	MM.....	Sp.....	Canton, Ohio
Standish, Jesse Edward.....	A&S.....	So.....	Evansville, Ind.
Standish, Odette Darrigrand.....	A&S.....	Sr.....	Battle Mountain
Stanley, Theodore Geoffrey.....	A&S.....	So.....	Reno
Steel, Miles F., Jr.....	ME.....	So.....	Palo Alto, Calif.
Steele, Gladys A.....	A&S.....	So.....	Sparks
Steinbach, Donald Louis.....	A&S.....	Fr.....	Ruth
Stephens, Ialo DeWitt.....	MM.....	Fr.....	Roseburg, Ore.
Stepro, Charles Everet, Jr.....	A&S.....	Fr.....	Mauckport, Ind.
Sterling, Helen Kathryn.....	A&S.....	Jr.....	Lovelock
Stetson, Audrey Lynn.....	A&S.....	Fr.....	Reno
Stever, John Van Tuyl.....	A&S.....	Sr.....	Reno
Stewart, Henry.....	A&S.....	Sr.....	Lovelock
Stichter, Ryel Roy.....	EE.....	So.....	Reno
Stimac, Paul.....	A&S.....	Fr.....	Mt. Iron, Minn.
Stone, Kenneth C., Jr.....	EE.....	Fr.....	Raleigh, N. C.
Stoops, William Milton.....	EE.....	Fr.....	Kimberly
Storey, Albert Earl.....	A&S.....	Fr.....	Las Vegas
Storey, Grace Margaret.....	A&S.....	So.....	Las Vegas
Storm, Lorraine E.....	A&S.....	Sp.....	Reno
Story, George Wesley.....	EE.....	So.....	Esparto, Calif.
Stosic, John Michael.....	A&S.....	Fr.....	Reno
Straka, Eugene Bernard.....	Ag.....	So.....	Bridgeville, Pa.
Strang, Robert Crawford.....	A&S.....	So.....	Reno

Name	College	Classification	Home Address
Strange, Verna Mae.....	A&S.....	Fr.....	Ely
Stratton, Edgar James.....	Ag.....	Fr.....	Reno
Stratton, John H.....	Ag.....	Jr.....	Reno
Streeter, Richard Lee.....	EE.....	Fr.....	Sparks
Strupp, Marian Ruth.....	A&S.....	Sp.....	Derry, Pa.
Stuck, Raymond Lewis.....	A&S.....	Fr.....	Lodi, Calif.
Stucki, Darlene.....	HE.....	Fr.....	Lund
Stumpf, Theodore Lawrence.....	A&S.....	Fr.....	Wadsworth
Subda, John Stanley.....	A&S.....	Fr.....	E. Rutherford, N. J.
Sullivan, Eugene Edward.....	A&S.....	Fr.....	Lovelock
Sullivan, Gerald James.....	A&S.....	So.....	Elko
Sullivan, John Joseph.....	MM.....	So.....	Elko
Sullivan, Nancy Ann.....	A&S.....	Sr.....	Lovelock
Sullivan, Robert John.....	MM.....	So.....	San Francisco, Calif.
Sullivan, Timothy Paul.....	EE.....	So.....	Reno
Summers, Maclin Butler.....	A&S.....	So.....	Reno
Summer, Frances.....		Gr.....	Hayward, Calif.
Sumner, Robert Charles.....	A&S.....	Jr.....	Hayward, Calif.
Sumner, Wilfred Almond.....	Ag.....	Fr.....	Hayward, Calif.
Sutton, Phyllis Pearl.....	A&S.....	Sr.....	Tulelake, Calif.
Swain, Robert Loche.....	MM.....	Sr.....	San Gabriel, Calif.
Swan, Janice E.....	A&S.....	Sp.....	Reno
Swanson, Harry Brooks.....	A&S.....	So.....	Reno
Swartz, Forest Keith.....	A&S.....	So.....	Sacramento, Calif.
Sweatt, Eleanor Frances.....	A&S.....	Fr.....	Reno
Sweeney, Eileen Cecelia.....	A&S.....	So.....	Boulder City
Sweeney, Elizabeth Marie.....	A&S.....	So.....	McGill
Swenson, David Hamilton.....	CE.....	Fr.....	Fallon
Swenson, Marjorie M.....	A&S.....	Sr.....	Fallon
Swick, Genevieve Marie.....	A&S.....	Sr.....	Eureka
Swobe, Chester Coe.....	A&S.....	Fr.....	Reno
Swobe, John William.....	A&S.....	Fr.....	Reno
Tabor, Alva.....	A&S.....	Fr.....	Los Angeles, Calif.
Talley, Fred Lee, Jr.....	CE.....	Jr.....	Paris, Tenn.
Tallia, John Peter.....	ME.....	Sr.....	Sutter Creek, Calif.
Tam, Charles Ernest.....	EE.....	Fr.....	San Francisco, Calif.
Tannenbaum, Bert.....	A&S.....	Sr.....	New York, N. Y.
Tanner, Richard Hilton.....	A&S.....	Fr.....	Carlin
Tarble, Richard Douglas.....	A&S.....	Sr.....	Sparks
Tarlow, Haskell M.....	A&S.....	Sr.....	Reno
Tavernia, George Philip.....	A&S.....	Sr.....	Sparks
Tavernia, Marilyn Jeane.....	A&S.....	So.....	Sparks
Tavernia, Robert Rey.....	A&S.....	Fr.....	Sparks
Taylor, Bonnie Lou.....	HE.....	So.....	Henderson
Taylor, James John.....	A&S.....	Jr.....	Reno
Taylor, James T., Jr.....	A&S.....	Fr.....	Reno
Taylor Marrium Anne.....	A&S.....	Jr.....	Reno
Taylor, Robert Arthur.....	ME.....	Jr.....	Redlands, Calif.
Teske, Alice Joan.....	A&S.....	So.....	Reno
Thacke, Howard Charles.....	Ag.....	Fr.....	Nelson
Therkelsen, Edward Robert.....	MM.....	So.....	Reno

Name	College	Classification	Home Address
Thiercof, Drury Joseph.....	A&S.....	Fr.....	Reno
Thomas, Carol Jean.....	A&S.....	Fr.....	Sparks
Thomas, Dorothy.....	HE.....	Sr.....	Tulelake, Calif.
Thomas, James.....	A&S.....	Sp.....	Reno
Thomas, Norman Lee.....	A&S.....	Fr.....	Sparks
Thompson, Beverly Ann.....	A&S.....	Fr.....	Reno
Thompson, Charles S., Jr.....	A&S.....	Fr.....	Lebanon, Ind.
Thompson, Craig Dickenson.....	MM.....	So.....	Cumberland, Md.
Thompson, Donald Sheldon.....	A&S.....	Fr.....	Reno
Thompson, Howard W., Jr.....	A&S.....	Fr.....	Reno
Thomsen, Delbert Eugene.....	A&S.....	Jr.....	Winnemucca
Thraillkill, Joseph J.....	A&S.....	Jr.....	Reno
Thronson, Robert Edward.....	MM.....	So.....	Queens Village, N.Y.
Tice, Jo Ann.....	HE.....	Fr.....	Los Angeles, Calif.
Ticen, David Harold.....	A&S.....	Fr.....	Frankfort, Ind.
Tieslau, Boyd Edmund.....	A&S.....	So.....	Quincy, Calif.
Tietje, Louanna.....	A&S.....	Fr.....	Gardnerville
Tilton, Richard Victor.....	A&S.....	Fr.....	Evansville, Ind.
Timberlake, Alice Grace.....	A&S.....	Fr.....	Reno
Toczykowski, Edward.....	A&S.....	Fr.....	Lynn, Mass.
Tognoni, George-Ann.....	A&S.....	Sp.....	Sparks
Tognoni, Hale C.....	MM.....	Sr.....	Sparks
Tognoni, Robert Louis.....	A&S.....	So.....	Eureka
Tomaselli, Renzo.....	A&S.....	Fr.....	Montello
Tompson, Robert Norman.....		Gr.....	Reno
Tonning, Kristian.....	CE.....	Jr.....	Stryn, Norway
Torre, Frank Marion.....	EE.....	Jr.....	Susanville, Calif.
Torvinen, Gene Allen.....	A&S.....	Fr.....	Reno
Torvinen, Jerry Dean.....	A&S.....	Fr.....	Reno
Torvinen, John William.....	Ag.....	Fr.....	Reno
Tower, Franklyn James.....	A&S.....	Fr.....	Reno
Tower, Rae Ellin.....	A&S.....	Fr.....	Ontario, Calif.
Trachock, Richard Matthew.....	A&S.....	Fr.....	Jerome, Pa.
Tracy, Elizabeth June.....	A&S.....	Sr.....	Reno
Tracy, Jerome Alden.....	A&S.....	So.....	Reno
Trail, Douglas Howard.....	Ag.....	Sr.....	Reno
Trail, Jane Littlefield.....	A&S.....	Sr.....	Elko
Trathen, William Richard.....	A&S.....	So.....	Grass Valley, Calif.
Traynor, Michael Emmett.....	A&S.....	Fr.....	Reno
Treacy, Philip Henry, Jr.....	A&S.....	Fr.....	New York, N. Y.
Tribble, Willard Bruce.....	EE.....	Sr.....	Rio Linda, Calif.
Tripp, Walter Clifton.....	EE.....	So.....	Reno
Truscott, Francis James.....	A&S.....	Fr.....	El Dorado, Calif.
Tschopp, Frances Marie.....	HE.....	Fr.....	Sierra City, Calif.
Tucker, Ralph M.....	A&S.....	Fr.....	Meridian, Idaho
Tuckett, Claude M.....	A&S.....	Fr.....	St. Anthony, Idaho
Tudor, Mathew Sandord.....	MM.....	So.....	Thorne
Tularski, Lura B.....	A&S.....	Sp.....	Sparks
Tullis, Albert Marks, Jr.....	A&S.....	Fr.....	Ione, Calif.
Tulloch, Alice Marie.....	A&S.....	Sr.....	Oakland, Calif.
Tun, Wallace Jee.....	A&S.....	Fr.....	Reno
Turner, Donald Q.....	A&S.....	Fr.....	Caldwell, N. J.

Name	College	Classification	Home Address
Tuttle, Nona Lee.....	A&S.....	Sr.....	Reno
Tyler, John Charles.....	A&S.....	Fr.....	Reno
Uhlig, Edward Robert.....	EE.....	Sr.....	Riverside, Calif.
Umbenhaur, George Walter.....	A&S.....	Fr.....	Reno
Upton, Weldon Carl.....	A&S.....	Fr.....	Reno
Ussery, Huling Eakin, Jr.....	A&S.....	Sr.....	Carlsbad, N. M.
Ussery, Patricia Glyn.....	A&S.....	Sr.....	Carlsbad, N. M.
Utley, William Thomas.....	A&S.....	Sr.....	Paducah, Ky.
Van Blitter, John Donald.....	EE.....	Fr.....	Reno
Van Blitter, Yvonne.....	A&S.....	So.....	Reno
van Dyke, Charles W., Jr.....	EE.....	Fr.....	Cortland, N. Y.
Van Meter, Elaine.....	A&S.....	Sr.....	Sparks
Van Meter, Shirley M.....	A&S.....	Fr.....	Reno
Van Slyck, Ashley.....	A&S.....	So.....	Washington, D. C.
Varischetti, Harry Albert.....	MM.....	Fr.....	Grass Valley, Calif.
Vassar, Roscoe Kay.....	ME.....	Fr.....	Genoa
Vaughn, Robert Oren.....	A&S.....	So.....	Arthur
Vawter, Beverley Anne.....	A&S.....	So.....	Reno
Vesco, Paul Joseph.....	A&S.....	Fr.....	Carson City
Vilas, Walter Alan.....	EE.....	Fr.....	Reno
Vinocour, Seymour Murray.....		Gr.....	Los Angeles, Calif.
Vorfeld, Robert Theodore.....	A&S.....	Fr.....	Honolulu, Hawaii
Vucanovich, George J.....	A&S.....	So.....	Round Mountain
Wager, Carol Elaine.....	A&S.....	Sr.....	Brigham, Utah
Wagner, William Hunt.....	A&S.....	Fr.....	Reno
Wait, Eugene Jacob, Jr.....	A&S.....	So.....	Reno
Wait, Richard Pomeroy.....	A&S.....	So.....	Reno
Waldman, Richard George.....	MM.....	Sr.....	Las Vegas
Walker, Daniel David, Jr.....	A&S.....	Sr.....	Las Vegas
Walker, David Connie.....	EE.....	Fr.....	Reno
Walker, Ramona Marjorie.....	HE.....	Fr.....	Sparks
Walker, Robert Joel.....	A&S.....	So.....	Fallon
Walldin, Roy Jonas.....	A&S.....	Fr.....	Tulelake, Calif.
Walpole, John Patrick.....	A&S.....	So.....	Alameda, Calif.
Walsh, James Paulsen.....	CE.....	Fr.....	Reno
Walter, Rerbert Guy, Jr.....	A&S.....	Fr.....	Reno
Wanke, Walter John.....	ME.....	Jr.....	Sparks
Ward, Harry Johnson.....	A&S.....	So.....	Reno
Ward, Joseph Leo.....	A&S.....	Fr.....	Providence, R. I.
Wardle, Austin Robert, Jr.....	A&S.....	So.....	Tonopah
Warren, Donna Louise.....	A&S.....	Fr.....	Lee
Warren, Norman Francis.....	MM.....	So.....	Elko
Waterman, Irene Frances.....	A&S.....	Fr.....	Reno
Waterstraat, Vivian C.....	A&S.....	Jr.....	Wapato, Wash.
Watkins, Robert Vincent.....	A&S.....	Fr.....	Fallon
Weaver, Paul E., Jr.....	A&S.....	Sr.....	Santa Monica, Calif.
Weber, Robert Jefferson.....	ME.....	Jr.....	Santa Marie, Calif.
Webster, Ralph Terrence.....	MM.....	Jr.....	Beltrami, Minn.
Wedge, John William, Jr.....	A&S.....	Fr.....	Reno

Name	College	Classification	Home Address
Wehrle, James Leo.....	A&S.....	Jr.....	Encinitas, Calif.
Welch, Rosemary.....	A&S.....	Jr.....	Tonopah
Welin, Jacques Edward.....	A&S.....	Fr.....	Boone, Iowa
Welin, James Henry.....	A&S.....	Sr.....	Boone, Iowa
Weller, Ross.....	A&S.....	Jr.....	Reno
Welsh, Rev. Maurice.....	A&S.....	Sp.....	Reno
Welsh, Warren James.....	Ag.....	Fr.....	Yerington
Wengert, Robert Edwin.....	EE.....	So.....	Las Vegas
Wennhold, William F.....	ME.....	Fr.....	Minden
Westover, Glenn Eugene.....	CE.....	Sp.....	El Paso, Texas
Wetzel, Gerald Francis, Jr.....	A&S.....	Sr.....	McCloud, Calif.
Wetzel, Robert Dean.....	A&S.....	So.....	McCloud, Calif.
Wheeler, Houston I., Jr.....	EE.....	Fr.....	Boulder City
Whelan, Beverly Brown.....	A&S.....	Jr.....	Los Angeles, Calif.
Whelan, Robert John.....	Ag.....	Sr.....	Reno
Whitaker, Raymond Lee.....	CE.....	Sp.....	Gardnerville
White, Robert Steven.....	Ag.....	Fr.....	Blue Diamond
White, Roy David.....	ME.....	Sr.....	Loyalton, Calif.
Whitford, Fred William.....	MM.....	So.....	Grass Valley, Calif.
Whitmer, Philip Francis.....	A&S.....	So.....	Palo Alto, Calif.
Whitmire, John Thomas.....	A&S.....	Fr.....	Reno
Whitney, Scott Cameron.....	A&S.....	So.....	Reno
Whitworth, Betty Jane.....	A&S.....	Fr.....	Reno
Whitworth, Edith Frances.....	A&S.....	Fr.....	Reno
Whomes, Donald Earl.....	A&S.....	Fr.....	Mesick, Mich.
Wigg, Arthur Edward.....	EE.....	Fr.....	Yerington
Wikstrom, Julia Elizabeth.....	A&S.....	Fr.....	Reno
Wiley, Madge.....	A&S.....	Fr.....	Montello
Willes, Fred Clark.....	EE.....	Fr.....	Babbitt
Willett, Roger Vincent.....	A&S.....	Fr.....	Sacramento, Calif.
Williams, Barbara E.....	A&S.....	Fr.....	Sparks
Williams, Frank.....	MM.....	Sp.....	Reno
Williams, Harry James.....	A&S.....	Jr.....	Sparks
Williams, James Templeton.....	A&S.....	So.....	Minden
Williams, John Anthony.....	A&S.....	So.....	Sparks
Williams, Kenneth Charles.....	A&S.....	So.....	Fernley
Williams, Mercedes Sarah.....	A&S.....	Jr.....	Las Vegas
Williams, Warren Edward.....	A&S.....	Fr.....	Reno
Williams, William Dangberg.....	MM.....	Jr.....	Minden
Wilson, Ernest Franklin.....	EE.....	Sr.....	Fallon
Wilson, Frank Whitman.....	A&S.....	So.....	Reno
Wilson, Gene Downey.....	A&S.....	Sr.....	Reno
Wilson, Jacquelyn.....	A&S.....	Fr.....	Ely
Wilson, James.....	A&S.....	Fr.....	Philadelphia, Pa.
Wilson, Kenneth Carl.....	A&S.....	Fr.....	Garden Grove, Iowa
Wilson, Lois Frances.....	A&S.....	So.....	Reno
Wilson, Patricia Anne.....	A&S.....	Jr.....	Las Vegas
Wilson, William Randolph.....	A&S.....	Fr.....	Reno
Wilson, Yvonne Tennyson.....	HE.....	Fr.....	Reno
Wilton, Hugh, Jr.....	MM.....	Sr.....	Las Vegas

Name	College	Classification	Home Address
Winkel, Chester George.....	A&S.....	So.....	Reno
Winn, Billie Rae.....	A&S.....	Sr.....	Beverly Hills, Calif.
Winsor, Melvin Murkins.....	MM.....	So.....	Panaca
Winterowd, Walter Ross.....	A&S.....	Fr.....	McGill
Wirsching, Joseph Edward.....	A&S.....	So.....	Reno
Wirsching, Wayne S.....	ME.....	Fr.....	Reno
Wise, Nevada Jack.....	ME.....	Fr.....	Minden
Withers, Janet.....	A&S.....	Fr.....	Reno
Witte, John Edgar.....	CE.....	Sr.....	Eureka
Wittwer, Donna.....	A&S.....	So.....	Reno
Wolford, Raymond.....	A&S.....	Fr.....	Reno
Wolford, Ronald Eugene.....	CE.....	So.....	Bishop, Calif.
Wong, Henry Q.....	A&S.....	Fr.....	Reno
Wood, Donald Eugene.....	EE.....	Fr.....	Reno
Wood, William Bourne.....	MM.....	So.....	San Francisco, Calif.
Woodard, Donald Allan.....	EE.....	So.....	Sacramento, Calif.
Woodgate, Alfred Melvin.....	CE.....	Sr.....	Carson City
Woodworth, Harley Robert.....	CE.....	So.....	Caliente
Works, Byron Wendell.....	A&S.....	So.....	Big Pine, Calif.
Wright, James J.....	A&S.....	Fr.....	Arthur
Wright, Richard Earl.....	A&S.....	Fr.....	Elko
Wright, Walter Edwin, Jr.....	CE.....	Fr.....	Elko
Wulff, Jack Goodman.....	CE.....	So.....	Sacramento, Calif.
Wunderlich, Raymond E.....	A&S.....	Fr.....	Visalia, Calif.
Wyatt, Harold Brown.....	Ag.....	Fr.....	Cedar Springs, Va.
Wyness, Gerald Bruce.....	A&S.....	So.....	Boulder City
Yapp, James Binder.....	MM.....	So.....	Los Angeles, Calif.
Yates, Floyd Meredith, Jr.....	EE.....	So.....	Reno
Yeakey, Janice Margaret.....	A&S.....	Fr.....	Reno
Yee, Layton.....	EE.....	Fr.....	Reno
Yenter, Jo Ann.....	A&S.....	Fr.....	Fernley
Yim, Billie.....	A&S.....	Fr.....	Minden
Yim, Florence.....	A&S.....	So.....	Minden
Yim, Robert Earl.....	A&S.....	So.....	Minden
Yori, George Eugene.....	Ag.....	Sr.....	Reno
York, Kenneth Stewart.....	A&S.....	So.....	Reno
Yorty, Robert Bell.....	A&S.....	Jr.....	Phillips, Neb.
Youell, Nathan Dale.....	A&S.....	Fr.....	Sparks
Young, Barbara Clare.....	A&S.....	Fr.....	Reno
Youtz, Robert Charles.....	MM.....	Sr.....	Oakland, Calif.
Yparraguirre, Daniel L.....	A&S.....	Fr.....	Gardnerville
Yrueta, Evelyn Dorothy.....	A&S.....	So.....	Winnemucca
Yturbide, Bonifacio Vincent.....	A&S.....	Jr.....	Reno
Zappettini, George.....	Ag.....	Jr.....	Currant
Zenklusen, William Henry.....	ME.....	So.....	Sparks
Zeno, Ernest.....	A&S.....	Fr.....	Waltham, Mass.
Zippmann, William M.....	A&S.....	Fr.....	Chicago, Ill.
Zorio, Louis.....	A&S.....	Fr.....	Winnemucca
Zorzakis, Mary.....	A&S.....	Fr.....	San Francisco, Calif.
Zunino, Olga Laiolo.....		Gr.....	Reno



## SUMMER SESSION, 1947

Aalde, Kaare.....	Sparks	Borghi, Lillian L.....	Sparks
Abbott, Virginia J.....	Las Vegas	Bower, Florence.....	Pittsburgh, Pa.
Affleck, Harold W.....	Reno	Bowers, Millard R.....	Fallon
Aldrich, Catherine.....	Fernley	Bowes, William K.....	
Allen, Babette.....	Reno		San Francisco, Calif.
Allen, Morris E.....	Reno	Boyle, Kathryn.....	Reno
Arak, Harry.....	Los Angeles, Calif.	Bradley, Mary Alice.....	Reno
Arbogast, Patricia.....		Braitto, Fred.....	Reno
	Nevada City, Calif.	Brinkerhoff, William.....	Sparks
Archer, James F.....	Topaz, Calif.	Britt, Lynda.....	Fallon
Arnold, Binney.....	Reno	Brown, Betty J.....	Reno
Ashby, Mazie.....	Ely	Brown, Cherrill.....	Miami, Ariz.
Azevedo, Phyllis.....	Sacramento, Cal.	Brown, Eleanor.....	Reno
Bachich, Carolyn H.....		Brown, Frederick.....	Reno
	Waterman, Calif.	Brown, Raymond R.....	
Bachigalupi, Frank J.....	Reno		Pasadena, Calif.
Bailey, Eileen.....	Yerington	Brown, Stanley H.....	Reno
Baker, John R.....	Yerington	Brown, Vance.....	Boulder City
Baker, Julia.....	Reno	Brozo, John.....	Reno
Baker, Richard.....	Minna	Brunton, Arthur F.....	McGill
Ball, Gwendoline M.....	Las Vegas	Brunton, George.....	Reno
Banks, Kathrina.....	Santa Cruz, Cal.	Bryant, Robert.....	Las Vegas
Barbieri, Aurelio A.....	Reno	Buchanan, Jessie.....	Inyokern, Cal.
Barger, Floyd.....	Perkins, Okla.	Burkhalter, Patricia.....	Reno
Barker, Ronald T.....	Reno	Burkin, Margaret.....	Henderson
Barrett, Lewis S.....	Las Vegas	Burr, Elizabeth.....	Las Vegas
Bartlett, Grace O.....		Burt, Chester A.....	Goldfield
	San Francisco, Calif.	Butler, Roberta.....	
Bashista, Joseph.....	Barnesboro, Pa.		Santa Maria, Calif.
Bass, Ellis S.....	Loyalton, Calif.	Byrd, Lucille.....	Reno
Bates, Ramona.....	Reno	Cade, Fred.....	Richmond, Calif.
Batjer, Grace N.....	Smith	Cain, Darrel S.....	Reno
Baumann, William H.....	Reno	Calkin, Annabelle.....	Sparks
Beals, Glendora.....	Mulberry, Ind.	Callahan, Mariellen.....	Reno
Beaman, George B.....	Yerington	Cammerano, Augustine.....	
Benham, Merle.....	Carson City		Garfield, N. J.
Bennett, George.....	Tonopah	Campbell, Mildred W.....	Fallon
Bergmann, Virginia.....	Sparks	Campbell, Robert E.....	
Berry, Olive.....	Sparks		Highlands, Calif.
Bevandich, Louis.....	Reno	Campbell, Ross.....	Reno
Bieroth, Ellen.....	Mountain City	Campbell, Shirley.....	Fernley
Birks, Angelina E.....	Reno	Cannan, Rita.....	Reno
Birks, Wilma.....	Reno	Cannon, Ernie.....	Ely
Bishop, Vivien W.....	Wells	Canonic, Florence.....	Verdi
Bjerke, J. W.....	Twin Valley, Minn.	Caprio, Theresa.....	Reno
Black, Berkeley.....	Reno	Carl, Louise.....	Reno
Black, Lorne S.....	Reno	Carlson, Charles T.....	
Black, Mary.....	Tungsten		Walker, Minn.
Black, Moray.....	Reno	Carmichael, Patricia.....	Las Vegas
Blanchard, Gloria.....	Kenmore, N. Y.	Carr, Elizabeth.....	Reno
Blaser, Dora.....	Elko	Carter, Elizabeth.....	Las Vegas
Boland, Monty F.....	Reno	Carter, John H.....	Reno
Boldra, Helen C.....	Hawthorne	Cedarholm, Joseph.....	Reno
Bonar, Roy T.....	Lordsburg, N. M.	Chamberlain, John.....	
Bondley, George B.....	Las Vegas		Los Angeles, Calif.
Booth, Marian V.....	Las Vegas	Chapin, Lelah T.....	Reno

Chapman, Caroline.....	Sparks	Doerr, Dale W.....	Des Moines, Ia.
Chapmen, Loring.....	Reno	Dolan, William M.....	Carson City
Chavez, Benjamin.....	Reno	Donaldson, Gene W.....	Reno
Cherry, Virginia.....	Santa Ana, Cal.	Dondero, Raymond S.....	
Chiara, Herbert.....	Battle Mountain	.....	San Francisco, Calif.
Chico, Hazel.....	Fallon	Dondero, Roy K.....	Reno
Childress, Sidney.....	Haysi, Va.	Dorsey, Dessie.....	Silver City
Choy, John.....	San Francisco, Cal.	Doyle, Alice Ruth.....	Reno
Christensen, Ingvar.....	Reno	Doyle, Rita.....	Long Beach, Calif.
Churchill, Florence.....	Reno	Doyle, William T.....	Reno
Churn, Browning.....	Reno	Drakulich, Michael.....	McGill
Cicala, Kathryn.....	Elko	Drewette, Frederick.....	Reno
Clark, Kenneth.....	Reno	Drown, Lora J.....	Reno
Clarkson, James.....		Duffy, Charles C.....	Sparks
.....	E. Rutherford, N. J.	Dulgar, Amma.....	Sparks
Clayton, Henry.....	Reno	Duncan, Robert J.....	Reno
Clem, John W.....		Dunn, Katherine G.....	Sparks
.....	Frankfort Hts., Ill.	Eather, Josephine.....	Eureka
*Clevenger, Ann.....	Reno	Early, Laura A.....	Deeth
Cody, Mary.....	Hendersonville, N. C.	Ebert, John W.....	Reno
Coe, Charles.....	Burlingame, Calif.	Ebert, William H.....	Reno
Coe, Conway.....	Reno	Eckley, Edith K.....	Reno
Coggins, Lucile.....	Petaluma, Calif.	Edlind, Gladys U.....	Reno
*Cohn, Joan.....		Edner, Valline H.....	Davis Dam
.....	Cedarhurst, L. I., N. Y.	Elder, Willard D.....	Nichols, Ia.
Collins, Jack C.....	Sparks	Eliades, Jordan.....	Reno
Conklin, William.....	Loyalton, Calif.	Ellis, Maxine B.....	Reno
Cooney, Donald G.....	Reno	England, Dolores E.....	Corona, Cal.
Coonrad, Warren L.....		Ernst, Margaret.....	Reno
.....	Long Beach, Calif.	Evans, June H.....	Reno
Coverston, Ethelyn.....	Fallon	Falconeri, Gennaro.....	Reno
Crandall, Patricia.....	Las Vegas	Fenderson, Bobbie.....	
Crawford, Jean.....	Yerington	.....	Chevy Chase, Md.
Creveling, Robert.....	Reno	Fenley, Frank O.....	Oroville, Calif.
Cunha, George.....	Reno	Figley, Ethel P.....	Reno
Cunningham, Edith.....	Reno	Flavin, Thelma.....	Lamoille
Cutter, Patricia.....	Oakland, Calif.	Flickinger, Mrs. Olive.....	
Danstrom, Gertrude E.....		.....	Sloan
.....	Stillwater, Okla.	Foster, Barbara.....	Reno
Darrigrand, Odette.....	Battle Mt.	Fouch, Laura J.....	Unknown
Daseler, Jack E.....	Oroville, Calif.	Foulkes, Harvey B., Jr.....	Reno
Davidson, Donald E.....		Fox, Dorothy G.....	El Centro, Cal.
.....	Coachella, Calif.	Fox, Otto M., Jr.....	Arcadia, Calif.
Davis, James C.....	San Diego, Cal.	Free, Raymond B.....	Pioche
Davis, Joseph S.....	Boulder City	French, Donald E.....	Wendell, Id.
Davis, Stanley N.....	Ceres, Calif.	Fricks, Calvin A.....	Gardnerville
Davis, Vivian.....	Las Vegas	Fritch, Lewis.....	Berkeley, Calif.
Daz, Lily.....	Montello	Fritch, Phyllis.....	Berkeley, Calif.
Dean, Emily.....	Juneau, Alaska	Fulton, Jack R.....	Reno
Dearing, Laura L.....	Las Vegas	Gaddo, Frank G.....	Reno
Denny, John A.....	San Rafael, Cal.	Galli, Albert A.....	Reno
Denevi, Mae A.....	Sparks	Galli, Michael.....	Elko
Diehl, Jack F.....	Reno	Gallien, Edna.....	Reno
Diehl, John W.....	Reno	Gamble, John R.....	Sparks
Dieringer, Marie A.....	Reno	Gandolfo, Helen B.....	Elko
Dilts, Margaret W.....	Carson City	Gardella, Raymond F.....	Reno
Dixon, Delores.....	Zephyr Cove	Garretson, Willis L.....	Reno

Gartler, Seymour.....	Reno	Helm, Ruth M.....	Reno
Gavitt, William M.....	Reno	Henley, William J., Jr.....	Virginia City
Geyer, Charles W.....	Reno	Henriod, Agnes.....	Caliente
Gibson, Barbara.....	St. Louis, Mo.	Hersey, Anna G.....	Carson City
Gibson, Janet.....	Eureka	Hildebrand, Mamie.....	Reno
Gibson, Robert W.....	Reno	Hill, Richard M.....	Reno
Gillies, Inez.....	Reno	Hill, Stanley G.....	Reno
Glore, Charley.....	Upland, Calif.	Hires, William E.....	Reno
Godbold, Margaret.....	Yerington	Holland, Richard J.....	Reno
Goebel, Russell C.....	Reno	Holmes, Edna.....	Las Vegas
Goen, Paul K.....	Reno	Holloway, John A.....	Los Angeles, Cal.
Gomes, Eddie F.....	Reno	Hooper, William H.....	Reno
Gonder, Lois (Mrs.).....	Wellington	Houser, Robert W.....	Reno
Gonfiantini, Nello.....	Reno	Howard, LaVerne.....	Fallon
Goodrich, Kenneth E.....	Henderson	Hubbard, Charmaine M.....	Virginia City
Gottardi, Edna W.....	Loyalton, Calif.	Huddleston, Jack E.....	Reno
Gould, Harry K.....	Reno	Hudson, Sarah S.....	Reno
Graham, Lena.....	Hollister, Calif.	Hulme, Gilbert N.....	Reno
Graham, Michael.....	Yreka, Calif.	Hunt, Charles L.....	Los Angeles, Cal.
Granata, Evo A.....	Reno	Hunt, Josephine.....	Reno
Graul, Albert R.....	Jersey City, N.J.	Hunt, Thelma.....	Santa Marie, Cal.
Gray, Raymond G.....	Yerington	Hunter, Anne.....	Reno
Gregg, Raymond E.....	Carson City	Huntley, Florence.....	Loyalton
Griffin, Kathleen.....	Reno	Hyde, Orson W.....	Reno
Griffith, George L.....	Thornton, Cal.	Illerich, Daniel G.....	Reno
Grimes, Joseph.....	Tucson, Ariz.	Jemison, Rex A.....	Las Vegas
Griswold, Morley W.....	Reno	Jensen, Mary.....	Sparks
Grotegut, Eugene K.....	Sparks	Jessop, Glenn.....	McGill
Grover, Roberta.....	Sharp Park, Cal.	Johnsen, Melvin B. T.....	Reno
Grover, Theodore W.....	Reno	Johnson, Arthur W.....	Reno
Guess, Joyce L.....	Loyalton, Cal.	Johnson, Emmett C.....	Los Angeles, Cal.
Gunderson, Carol.....	Reno	Johnson, Herman.....	Alturas, Cal.
Haley, Gloria.....	Litchfield, Cal.	Johnson, Joylin.....	Las Vegas
Hall, Robert A.....	San Bernardino, Cal.	Johnson, Walter B.....	Kimberley
Haman, Howard J.....	Reno	Johnston, Dalton M.....	Sparks
Hamilton, Bernice G.....	Reno	Joice, Fred A.....	Winnemucca
Hamlin, A. S.....	Porterville, Cal.	Jones, Olga B.....	Fallon
Hanley, Robert E.....	Reno	Jungquist, Yvonne.....	Beverly Hills, Calif.
Hansen, Anna Lu.....	Portland, Ore.	Kafoury, Sam.....	Reno
Hansen, Marilyn.....	Verdi	Kaplan, Abe.....	Reno
Hansen, Rubel.....	Reno	Kastenau, Boleslaus W.....	Reno
Hardin, Eleanor G.....	Reno	Kean, Marjory.....	Carson City
Harford, Mary J.....	Arvin, Cal.	Kehoe, John J.....	Reno
Harp, Merrie Jo.....	Herlong, Cal.	Keith, Donald E.....	Boston, Mass.
Harrigan, William A.....	Reno	Keller, Harold P.....	Reno
Harrington, Gladys.....	Winnemucca	Kelley, Marjorie J.....	Eureka
Harris, Edith C.....	Reno	Kelley, Terrence D.....	Reno
Harris, Ruth.....	Reno	Kentner, Earl.....	Hollywood, Calif.
Hartor, Robert F.....	Reno	Kennedy, Frances W.....	Susanville, Calif.
Harwood, Clara A.....	Winnemucca	Kimerling, Virginia.....	Reno
Haskell, Charles T., Jr.....	Fallon	King, John T.....	Reno
Hawkins, Betty.....	Reno		
Hawkins, Gordon L.....	Las Vegas		
Hawley, Lawrence.....	Las Vegas		
Heckethorn, Howard E.....	Reno		

Kinneberg, Dorothy.....	Battle Mt.
Kinney, Joseph.....	Reno
Klimaszewski, Theodore.....	
.....	Garfield, N. J.
Kline, David.....	Sacramento, Cal.
Klosterman, E.....	San Diego, Cal.
Knudsen, Julia S.....	Wells
Kramer, Gladys.....	Reno
Kruse, Alice S.....	Pioche
Kulinovich, Anne.....	Phoenix, Ariz.
Lamberson, Ellis E.....	Hawthorne
Lane, John W.....	Danville, Va.
Langer, Steven.....	Reno
Larson, Bruce.....	Manhattan
Lawson, Robert.....	Reno
Lazzarone, Albert.....	Reno
Lee, Corle Eleanor.....	Reno
Lee, Edward E., Jr.....	Reno
Leer, Ida.....	Henderson
Leisure, Carl W.....	Reno
Leon, Frederick M.....	Reno
Leonard, Lionel G.....	Reno
Leupold, Ralph P.....	Reno
Levack, Samuel S.....	Reno
Lindeman, Dwight J.....	
.....	Oak Park, Ill.
Liotard, Alphonsine.....	Reno
Liotto, John R.....	Monterey, Cal.
Lokke, Freda B.....	Sparks
Lokke, Gerald F.....	Sparks
Long, Walter E.....	Las Vegas
Lopez, Luis H.....	El Salvador, C. A.
Loring, Bertha.....	Reno
Lowry, Albert M.....	Winnemucca
Lowry, Gus W.....	McComb, Miss.
Luce, Harriet.....	Reno
Lundgren, Edna.....	Las Vegas
Lusich, George J.....	Sparks
Lytle, F. Wayne.....	Pioche
Macaulay, Shirley M.....	Reno
MacGillivray, Christye.....	Reno
Mack, Robert C.....	Reno
Mack, Ruth W.....	Cleveland, Ohio
Magee, George F.....	Reno
Marean, John H.....	Reno
Marisquirena, Josephine.....	Elko
Martin, Barbara.....	Elko
Martin, Rachel E.....	Glen Ellyn, Ill.
Martinson, John E.....	Reno
Mason, John E.....	Sacramento, Cal.
Mathis, Joe R.....	Reno
Matteoni, Silvano J.....	Sparks
Maxwell, Morgan.....	Tucson, Ariz.
McCartney, Lyle.....	Elko
McClure, Harriette.....	Reno
McClurkin, Marjorie E.....	
.....	Chico, Cal.
McFadden, Albert J.....	Reno
McFarland, Billy J.....	Reno
McGowan, Roger J.....	Hawthorne
McLean, John B.....	Reno
McMichael, Junerwanda.....	Reno
McNaughton, Mary.....	Reno
McQueen, Effie J. (Mrs.).....	Reno
McQuiston, Marguerite.....	Lamoille
McVey, Phillip B.....	Reno
Mead, Orval.....	Carmel, Cal.
Means, Lawrence G.....	Reno
Meiser, Vernon M.....	Reno
Melton, Jean Z.....	Marysville, Cal.
Mentaberry, Fausto.....	Reno
Messing, Regina E.....	Hollister, Cal.
Metzger, Virginia.....	Reno
Meyer, Robert I.....	Reno
Mickelson, Merton M.....	Fallon
Mieding, John F.....	
.....	Los Angeles, Cal.
Milburn, John F.....	Philadelphia, Pa.
Miles, Evelyn M.....	Reno
Miles, Richard L.....	Reno
Miller, John R.....	Carson City
Miller, Wendell A.....	Reno
Millinger, Jack.....	Sparks
Mills, Donald E.....	Reno
Mirabelli, Michael A.....	Reno
Missenberger, Luceille.....	
.....	Seattle, Wash.
Mitchell, Mary.....	Sparks
Mitton, Charlotte H.....	Reno
Molk, Ashley J.....	Reno
Molk, Marguerite C.....	Reno
Monday, Cerrita C.....	Sparks
Montgomery, Hazel.....	Wells
Montgomery, Rachel.....	Golconda
Montgomery, Thomas H.....	Reno
Moody, Norma J.....	Hawthorne
Moore, Gail M.....	Reno
Moore, Joseph E.....	Winnemucca
Moore, Robert J.....	Winnemucca
Morbey, Andrew E.....	Reno
Morey, Beverly M.....	Reno
Morganroth, Golda.....	Carlin
Morris, Agnes.....	Boulder City
Morris, Nora.....	Tonopah
Morrison, Robert A.....	Reno
Mortara, Rita A.....	Reno
Moseley, Margaret M.....	Reno
Muguirra, Frances.....	Reno
Mullin, Margaret.....	Austin
Murdock, Alice.....	Elko

Murdough, Charles E.....	Reno	Politzer, Jerome F.....	Reno
Murphy, Frederick A.....	Reno	Pope, Girdwood C.....	Alameda, Cal.
Murray, Matthew J., Jr.....		Potts, George F.....	Reno
.....Lawrence, L. I., N. Y.		Powning, Lillian.....	Verdi
Mustard, Donald L.....	Reno	Preece, Howard C.....	Reno
Mygatt, Pete.....	Reno	Proctor, Jean M.....	Kimberly
Myers, Robert T.....	Reno	Quackenbush, Maynard D.....	Reno
Nannini, Florindo.....	Reno	Radovich, Robert.....	Reno
Naughton, John E.....	Sparks	Raker, Alice (Mrs.).....	Henderson
Neese, Beatrice.....	Hawthorne	Rastelli, Joe.....	Reno
Neese, Hallie L.....	Reno	Ravve, Abraham.....	Los Angeles, Cal.
Nispel, Louise H.....	Ruth	Rawson, Louise.....	Reno
Nord, Earnest W.....	Reno	Ray, Barbara.....	Caliente
Norman, Harriett A.....	Carmel, Cal.	Ray, James C.....	Steamboat
Novoa, Fidel A.....	San Salvador	Reed, Edward C.....	Reno
Oberholzer, Jacob L., Jr.....		Regoli, Paul J.....	Alameda, Cal.
.....Honolulu, T. H.		Reichert, Erida L.....	
O'Brien, Leo M., Jr.....	Reno	.....San Francisco, Cal.	
Olds, Ruth E.....	Kimberly	Reid, Ethel F.....	Bakersfield, Cal.
Olsen, Evelyn.....	Loyalton, Cal.	Reid, Florence.....	Bakersfield, Cal.
Olsen, Norman O.....	Reno	Reinero, Edith M.....	Reno
Olszowy, Amelia K.....	Scranton, Pa.	Reinhardt, Thomas A.....	
Orlich, Daniel.....	Chisholm, Minn.	.....Jasper, Wyo.	
Owen, Richard D.....	San Rafael, Cal.	Reinken, William.....	Reno
Owens, Olga.....	Truckee, Cal.	Remington, Alma.....	McGill
Oyarbide, Pela A.....	Reno	Revene, Joseph G.....	Reno
Packard, William D.....	Reno	Reynolds, Betty.....	Reno
Palmer, Robert A.....	Reno	Rice, Kenneth T., Jr.....	Reno
Panelli, Giulio.....	Verdi	Richards, Chester.....	Pleasanton, Cal.
Papaclion, Vasilios.....	Reno	Rider, Virginia.....	Wells
Pardee, Barbara.....	Sacramento, Cal.	Ricker, George E.....	Reno
Parker, Girard.....	Reno	Riley, Ella S.....	Yerington
Parker, John.....	Shelbyville, Tenn.	Riley, Linford D., Jr.....	Yerington
Parker, Laurel Lee.....	Reno	Rinehart, Jim.....	El Reno, Okla.
Paterson, Robert A.....	Reno	Rising, Vernon K.....	Rochester, N.Y.
Patrick, Charles.....	Bedford, N. J.	Rockholm, Norman.....	Reno
Pearson, Harold.....	Reno	Robertson, Donald A.....	Carson City
Pearson, Robert M.....	Carmel, Cal.	Robison, Beth.....	Ely
Peddicord, Edith E.....	Reno	Rogers, Lloyd A.....	Reno
Peirson, James M.....	Inyokern, Cal.	Rohlfing, Dorothy.....	Reno
Penny, Roy W.....	Reno	Rollins, William A.....	Reno
Percy, Joyce.....	Reno	Root, Lloyd L., Jr.....	Reno
Perkins, Lorna G.....	Rio Vista, Cal.	Rosaschi, Gloria.....	Reno
Peters, Ray C., Jr.....		Rotholtz, Adelyn M.....	Reno
Petersen, Constance.....	Reno	Rovetti, Melvin G.....	Reno
Petersen, Jac.....	Reno	Rowcliffe, Alice.....	Stillwater
Peterson, Sybil E.....	Bouse, Ariz.	Rowe, Margaret E.....	McGill
Pettis, Ethel A.....	Reno	Rubio, William.....	Newark, N. J.
Phillips, Edward A.....		Rude, Lloyd E.....	Sparks
.....Blacksville, West Va.		Rule, Mary A.....	Las Vegas
Phillips, Robert A.....	Reno	Rummel, William.....	Reno
Piccini, Matthew.....	Reno	Rupp, Louise M.....	Reno
Pickard, Edith W.....	Searchlight	Ryan, Bill C.....	Las Vegas
Pidgeon, Gertrude L.....		Sadler, Patricia.....	Reno
.....White Plains, N. J.		Sale, Vera G.....	Reno
Pilkington, Dorothy.....	Reno	Saling, Milo.....	Reno

Sancic, Charles S.....	Reno
Sander, Lida E.....	Fallon
Searselli, Gene.....	Sparks
Schaad, Carlyle D.....	Reno
Scholz, Melville.....	Fallon
Scoffield, Ray.....	Reno
Shane, Grace M.....	Reno
Shaver, Doris.....	Sparks
Shaw, Clarice.....	Elko
Sherwood, William.....	Reno
Short, Charles.....	Reno
Shoupe, Geraldine.....	
.....	Klamath Falls, Ore.
Silliman, Floyd.....	Ely
Singleton, Beulah.....	Reno
Singleton, Robert A.....	Reno
Sloan, Jane A.....	Reno
Smith, Lucille E.....	Reno
Smith, Robert A.....	
.....	Del Paso Hts., Cal.
Smollet, Jean.....	Nevada City, Cal.
Snyder, Gertrude N.....	
.....	Loyalton, Calif.
Solt, Richard H.....	Reno
Solt, Rosalie.....	Reno
Spirig, J. J.....	Hyde Park, N. Y.
Spitz, Louis P.....	Reno
Springer, Gloria L.....	Reno
Stafford, Victor H.....	Reno
Standish, Jesse.....	Reno
St. Cyr, Edith L.....	Fallon
Stensil, Mae.....	Sloan
Stephens, Ruth L.....	Verdi
*Stephens, Stella F.....	Visitor
Stevens, Marie.....	Schurz
Steuer, John V. T.....	Reno
Stewart, Frank W.....	
.....	Morro Bay, Calif.
Stewart, Henry.....	Lovelock
Stewart, Ora.....	Henderson
Stone, Ronald B.....	
.....	Hutchinson, Kan.
Straka, Eugene B.....	Reno
Strupp, Marian.....	Derry, Pa.
Stuck, Raymond.....	Reno
Sullivan, Bob.....	Reno
Sullivan, Mary K. C.....	Reno
Sullivan, Nancy.....	Lovelock
Sullivan, Vern.....	Las Vegas
Swartz, Carl R.....	Martinez, Calif.
Swartz, Forest K.....	Reno
Sweeney, Eileen C.....	Reno
Swensen, Jo.....	Tuscarora
Swick, Genevieve.....	Eureka
Tacke, Frederick A.....	Reno
Tallia, John P.....	
.....	Sutter Creek, Calif.
Tarble, Richard D.....	Reno
Tarlow, Haskell M.....	Reno
Tavernia, Marilyn J.....	Sparks
Taylor, Robert L.....	Kimberley
Teel, Elva.....	Fallon
Thacke, Howard C.....	Nelson
Thiercof, Drury J.....	Reno
Thompson, Carol W.....	Reno
Thompson, Gladys E.....	
.....	San Francisco, Calif.
Thompson, John W.....	
.....	Santa Fe, N. M.
Thompson, Merlynn N.....	Reno
Thompson, Norman.....	Mt. City
Thomsen, Delbert E.....	Reno
Thraillkill, Joseph J.....	Reno
Tilton, Richard.....	Evansville, Ind.
Toczykowski, Edward.....	
.....	San Diego, Calif.
Torre, Frank M.....	Reno
Tower, Franklyn J.....	Reno
Towles, Mamie.....	Reno
Tracy, Jerome.....	Reno
Trowbridge, Marjorie A.....	Reno
Trulove, Velva C.....	Sparks
Tuckett, Claude M.....	
.....	St. Anthony, Idaho
Tudor, Mathew S.....	Thorne
Turchun, Seta.....	New York, N. Y.
Turner, Blanche.....	Reno
Turner, Helen.....	Fallon
Uhlig, Edward R.....	Reno
Ussery, Huling E., Jr.....	Reno
Utley, Wm. T.....	Reno
Vacchina, Elmer R.....	Reno
Van Slyck, Ashley.....	Reno
Vaughan, Betty.....	Reno
Vinocour, S. M.....	Reno
Wallace, Ruth M.....	Reno
Walsh, Elizabeth.....	Bronx, N. Y.
Wanke, Walter J.....	Sparks
Ward, Myrtle E.....	Bonne Terre, Mo.
Washington, Lamar.....	Reno
Wathen, Marilyn E.....	Reno
Watson, Florence L.....	Reno
Weaver, Lawrence G.....	
.....	Des Moines, Ia.
Webb, Donald B.....	Reno
Weber, Robert J.....	Reno
Webster, R. Terrence.....	Reno
Welden, Lois Y.....	Reno
Weir, LaVerne M.....	Sparks
Welch, Rosemary.....	Tonopah
Wetzel, Jerry F.....	Reno
Wetzel, Robert D.....	McCloud, Cal.
Whitaker, Raymond.....	Reno
Whitford, Fred W.....	Reno

Whitney, Scott C.....	Reno	Worden, Mabel L.....	Edneyville, N. C.
Whittemore, R. G.....	Carson City	Wright, Myrtle I.....	Susanville, Cal.
Wilcox, Mary.....	Reno	Wyatt, Harold B.....	Reno
Williams, Claire A.....	Elko	Yates, Floyd M.....	Reno
Williams, Isabelle.....	Elko	Yorty, Robert B.....	Las Vegas
Williams, Kenneth C.....	Fernley	Youell, Nathan D.....	Sparks
Williams, Mercedes.....	Las Vegas	Young, Wilbur D.....	Carson City
Wilson, Alta E.....	Reno	Zang, Elizabeth.....	Reno
Wilson, Ernest F.....	Fallon	Zappettini, George.....	Reno
Wong, Henry.....	Reno	Zeno, Ernest.....	Waltham, Mass.
Wood, William B.....	Reno	Zoloth, George D.....	
Woodworth, Harley R.....	Reno		San Francisco, Cal.

## ENROLLMENT SUMMARY 1947-1948

Graduate Students.....		44
<b>COLLEGE OF ARTS AND SCIENCE</b>		
Seniors.....	107	
Juniors.....	132	
Sophomores.....	401	
Freshmen.....	589	
Specials.....	68	
	1297	1297
<b>COLLEGE OF ENGINEERING</b>		
<i>Mackay School of Mines—</i>		
Seniors.....	20	
Juniors.....	32	
Sophomores.....	41	
Freshmen.....	60	
Specials.....	6	
	159	159
<i>School of Civil Engineering—</i>		
Seniors.....	8	
Juniors.....	12	
Sophomores.....	29	
Freshmen.....	56	
Specials.....	5	
	110	110
<i>School of Electrical Engineering—</i>		
Seniors.....	10	
Juniors.....	22	
Sophomores.....	38	
Freshmen.....	72	
Specials.....	2	
	144	144
<i>School of Mechanical Engineering—</i>		
Seniors.....	10	
Juniors.....	20	
Sophomores.....	26	
Freshmen.....	53	
	109	109
<b>COLLEGE OF AGRICULTURE</b>		
<i>School of Agriculture—</i>		
Seniors.....	2	
Juniors.....	5	
Sophomores.....	13	
Freshmen.....	38	
Specials.....	9	
	67	67
<i>Department of Home Economics—</i>		
Seniors.....	1	
Juniors.....	1	
Sophomores.....	10	
Freshmen.....	32	
	44	44
Total University.....		1974
Enrollment of Men.....	1404	
Enrollment of Women.....	570	
Total Summer School, 1947.....		916
Less names counted twice.....		2890
		585
Grand Total Enrollment.....		2305



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