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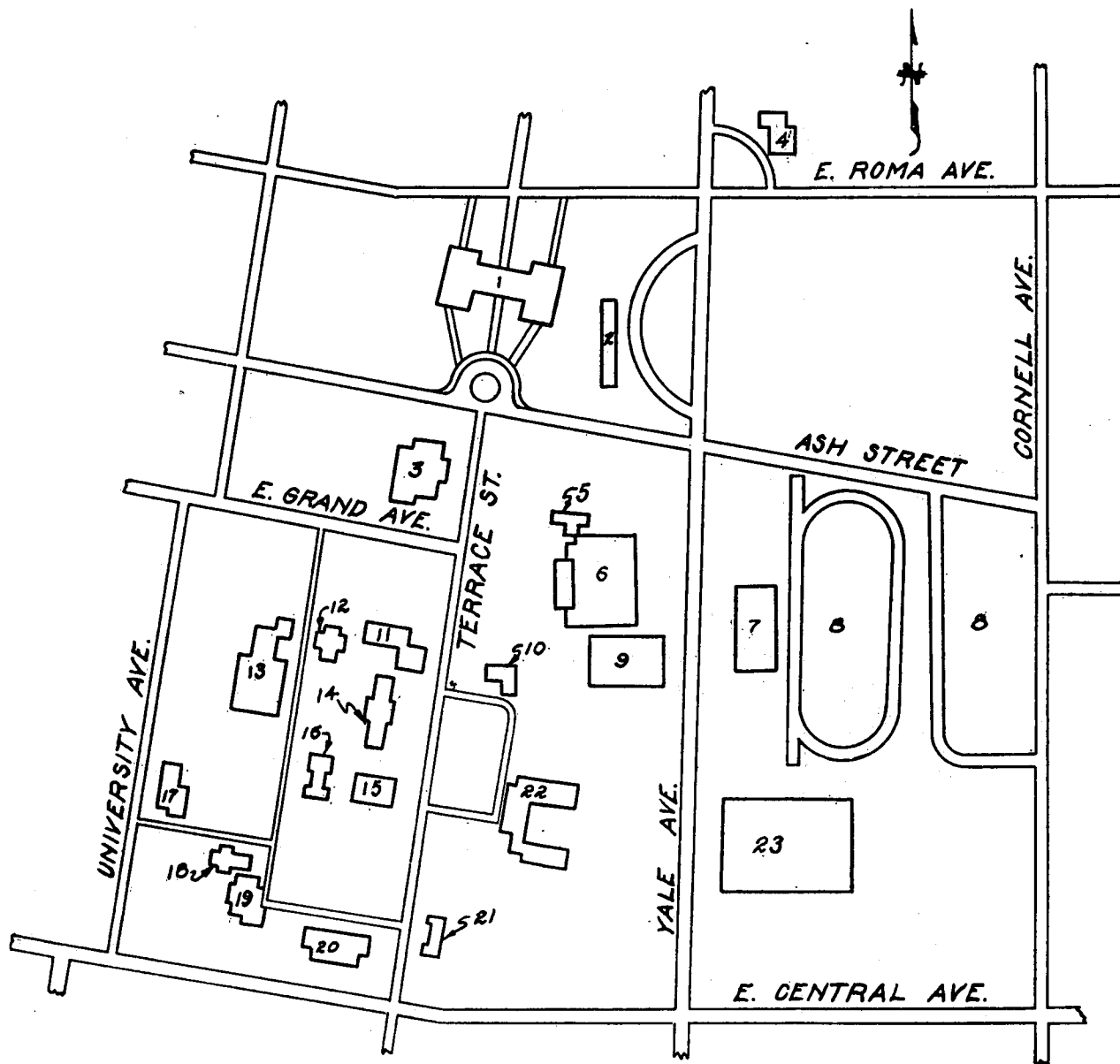
The
UNIVERSITY of New Mexico
BULLETIN

FORTY-FOURTH
ANNUAL CATALOG ISSUE
1934-1935



Announcements
1935-36

PUBLISHED BY
THE UNIVERSITY OF NEW MEXICO
ALBUQUERQUE, N. M.
MARCH 1, 1935



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CAMPUS PLAN UNIVERSITY OF NEW MEXICO COLLEGE OF ENGINEERING

THE UNIVERSITY OF NEW MEXICO
BULLETIN

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FORTY-FOURTH
ANNUAL CATALOG ISSUE
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1935

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UNIVERSITY CALENDAR

SUMMER SESSIONS, 1935

CAMPUS SESSION

June	11	Tuesday, 9:00-12:00, 1:00-4:00, registration.
June	12	Wednesday, instruction begins in all departments, 7:00 A. M.
July	4	Thursday, Independence Day, holiday.
August	3	Saturday, campus session ends.

FIELD SESSION

August	3	Saturday, registration for General Field Session, 9:00-12:00 A. M.
August	4-31	General Field Session, Jemez Springs, New Mexico.

FIRST SEMESTER, 1935-1936

September	12-16	Thursday to Monday, freshman week.
September	14	Saturday, entrance examinations.
September	16	Monday, registration for freshmen, 9:00-12:00; all other students, 1:00-5:30.
September	17	Tuesday, registration for all other students, 9:00-12:00 and 1:00-5:30.
September	18	Wednesday, instruction begins at 8:00 A. M.
November	11	Monday, Armistice Day, holiday.
November	27	Wednesday, Thanksgiving recess begins at 9:00 P. M.
December	2	Monday, instruction resumed at 8:00 A. M.
December	21	Saturday, Christmas recess begins at 12:00 noon.
January	6	Monday, instruction resumed at 8:00 A. M.
January	25-30	Saturday to Thursday, semester final examinations.
January	31	Friday, entrance examinations; semester ends at 5:00 P. M.

SECOND SEMESTER, 1935-1936

February	1	Saturday, tests and instructions for freshmen, Rodey Hall, 9:00 A. M.
February	3	Monday, registration, 8:30-12:00, 1:00-5:30.
February	4	Tuesday, Instruction begins at 8:00 A. M.
February	22	Saturday, Washington's Birthday, holiday.
March	1	Sunday, University Memorial Day.
April	10-11	Friday and Saturday, spring recess.
May	29	Friday, semester final examinations begin.
May	30	Saturday, Memorial Day, holiday.
June	5	Friday, semester final examinations end.
June	7	Sunday, baccalaureate services.
June	8	Monday, commencement exercises.

CAMPUS SUMMER SESSION, 1936

June	9	Tuesday, registration, 9:00-12:00, 1:00-4:00.
August	1	Saturday, session ends.

THE REGENTS OF THE UNIVERSITY OF NEW MEXICO

THE HONORABLE CLYDE TINGLEY, GOVERNOR OF NEW MEXICO, ex-officio -----	Santa Fe
H. R. RODGERS, STATE SUPERINTENDENT OF PUBLIC INSTRUCTION OF NEW MEXICO, ex-officio -----	Carlsbad
JOHN J. DEMPSEY, President -----	Santa Fe
MRS. MARGARET PAGE HOOD, Vice-President -----	Las Cruces
JOHN W. HERNANDEZ, Secretary and Treasurer -----	Albuquerque
W. R. LOVELACE -----	Albuquerque
HENRY G. COORS -----	Albuquerque

ORGANIZATION AND ADMINISTRATION

The University is organized as follows:

THE COLLEGE OF ARTS AND SCIENCES
THE COLLEGE OF ENGINEERING
THE COLLEGE OF EDUCATION
THE GRADUATE SCHOOL
THE EXTENSION DIVISION
THE SUMMER SESSION
THE FIELD SESSIONS

OFFICERS OF ADMINISTRATION

JAMES FULTON ZIMMERMAN, PH.D., President.

GEORGE POPE SHANNON, PH.D., Dean of the College of Arts and Sciences.

MARSHALL ELMER FARRIS, M.S. in M.E., Dean of the College of Engineering.

SIMON PETER NANNINGA, PH.D., Dean of the College of Education, and Director of the Summer Session.

BENJAMIN FRANKLIN HAUGHT, PH.D., Dean of the Graduate School.

JAY CARROLL KNODE, PH.D., Dean of Men.

LENA CECILE CLAUVE, M.A., Dean of Women.

***J. T. REID, M.A.,** Director of the Extension Division.

ALICE OLSON GREINER, B.A., Registrar.

PATRICK MILLER, B.A., Business Manager.

WILMA LOY SHELTON, B.L.S., Librarian.

***PAUL WALTER, JR., M.A.,** Editor of Publications and Director of Publicity.

TOM L. POPEJOY, M.A., Faculty Manager of Athletics and Student Activities Adviser.

ERNEST W. HALL, B.A., Acting Director of Publicity and Secretary, Alumni Association.

FRED E. HARVEY, Acting Editor of Publications and Manager of University Press.

EARL BOWDICH, Superintendent of Buildings and Grounds.

*On leave of absence, 1934-35.

ASSISTANTS TO OFFICERS OF ADMINISTRATION

MARY K. CONNELL, B.A. in Educ., Secretary to the President.
 VERA TAYLOR, Clerk in Registrar's Office.
 ALICE SHIRLEY, Clerk in Registrar's Office.
 REBECCA F. JUDY, B.A., Record Clerk in Registrar's Office, part-time.
 KATHRYN BIGELOW, Stenographer in Registrar's Office, part-time.
 ELIZABETH B. MORRISON, Clerk in Registrar's Office, part-time, and
 Mimeograph Operator.
 J. RAYMOND STUART, M.A., Bookkeeper in Business Office.
 HELEN STUBBS REARDON, Bill Clerk in Business Office.
 EVA L. BROWN, Clerk in Business Office.
 CLAUDIA M. MARSCHALL, B.A., B.S., Clerk in Business Office.
 EVA M. ISRAEL, B.A. in Educ., Secretary to the Dean of the College of
 Arts and Sciences.
 DOROTHY LIPP, Secretary to the Dean of the College of Engineering.
 VENA GAULT, B.A., Secretary to the Dean of the College of Education.
 EDITH SHALLENBERGER, Secretary to the Dean of Men and the Dean of
 Women.
 SARAH ANN PILCHER, B.A., Secretary to the Director of the Extension
 Division and to the High School Visitor.
 LOUISE SMITH, B.A. in Educ., Secretary to the Faculty Manager of
 Athletics and Student Activities Adviser.

UNIVERSITY LIBRARY STAFF

WILMA LOY SHELTON, B.L.S., Librarian.
 RUTH RUSSELL, Assistant Librarian.
 ESTHER JUNE PIERCY, B.A., B.S. in L.S., Cataloger.
 WILMA SHAFFER MATER, B.A. in Educ., Assistant Loan Librarian.
 PATRICIA ARGABRIGHT, Student Assistant.
 ANN DE HUFF, Student Assistant.
 MABEL DOWNER, Student Assistant.
 JAY GENTRY, Student Assistant.
 HELEN GOFORTH, Student Assistant.
 BETTY IDEN, Student Assistant.
 DONNA STEIN, Student Assistant.

SAN JOSE TRAINING SCHOOL

LOYD S. TIREMAN, Ph.D., Director.
 HARLAN SININGER, M.A., Principal.
 JOHN EDWIN EARL, M.A., Research Assistant.

UNIVERSITY HEALTH SERVICE

JAMES R. SCOTT, M.D., Ph.D., Professor of Health.

W. A. GEKLER, M.D., University Physician.

STAFF OF STATE HEALTH LABORATORY

J. ROSLYN EARP, DR.P.H., State Director, Bureau of Public Health,
Consultant.

MYRTLE GREENFIELD, M.A., Chief, Division of Laboratory, State Public Health Laboratory.

THELMA DE CAPITO, M.S., Bacteriologist, State Public Health Laboratory.

ELEANOR TAYLOR, B.S., Assistant, State Public Health Laboratory.

DINING AND RESIDENTIAL HALLS

MRS. ELIZABETH P. SIMPSON, M.S., Supervisor of Dining Hall.

MISS MARTHA B. CLOUGH, Matron of Women's Residential Hall.

J. RAYMOND STUART, M.A., Proctor of Men's Residential Hall.

FRANCIS F. COLEMAN, Ph.D., Proctor of Men's Residential Hall.

EUPHA BUCK, Student Assistant in Women's Residential Hall.

STANDING COMMITTEES OF THE FACULTY

1934-1935

The first named member of each committee is chairman.

Administrative: ZIMMERMAN, HAUGHT, SHANNON, FARRIS, NANNINGA, KNODE, CLAUVE.

Alumni Relations: SACKS, CLARK, RUSSELL, CAMPA.

Athletic Council Representatives: NANNINGA, ALLEN, SEYFRIED, GREINER.

Campus Improvement: CASTETTER, DORROH, SIMPSON, HATCH, M. T. MILLER.

Commencement Exercises: KNODE, THOMPSON, MITCHELL, ENGLEKIRK, RUSSELL, BELL.

Courses of Study: HAUGHT, SHANNON, FARRIS, NANNINGA.

Eligibility (other than Inter-collegiate Athletics): GREINER, BARNHART, WAGNER, DIEFENDORF.

Entrance and Credits: GREINER, SHANNON, FARRIS, NANNINGA, DIEFENDORF.

Extension: DIEFENDORF, SHANNON, FARRIS, NANNINGA.

Freshman Week: KNODE, CLAUVE, GREINER, THOMPSON, HAUGHT, COLEMAN, SMITH.

Graduate: HAUGHT, ST. CLAIR, HEWETT, DARGAN, CASTETTER, KERCHEVILLE, SEYFRIED, NEWSOM.

High School Relations: DIEFENDORF, KNODE, WORKMAN, MOSER, HENRY, NEWSOM.

Honors and Awards: KIECH, SIMPSON, JOHNSON, BRAND, NORTHROP, SMELLIE, REDMAN.

Library: SHELTON, DENTON, NEWSOM, MITCHELL, ELLIS, PEARCE, DARGAN, PETERSON.

Memorial Day: MITCHELL, CLARK, ELLIS, HEWETT.

Program of Classes and Rooms: ALLEN, RUSSELL, SEYFRIED, WORKMAN.

Publications: CLARK, SHELTON, HEWETT, DENTON, SEYFRIED, HARVEY, BLOOM.

Publicity: HALL, PEARCE, SORRELL, DORROH, SNAPP.

Registration: FARRIS, SEYFRIED, KIECH, KNODE, GREINER.

Rhodes Scholarships: MITCHELL, ST. CLAIR, DENTON.

Scholarship:

- A. College of Arts and Sciences: SHANNON, SIMPSON, CASTETTER, DE JONGH, MCFARLAND.
- B. College of Engineering: FARRIS, DENTON, DORROH.
- C. College of Education: NANNINGA, HAUGHT, DIEFENDORF, SEYFRIED, TIREMAN.

Student Accounts: SORRELL, WHITE, RUSSELL, MCFARLAND.

Student Employment: SIMPSON, KNODE, BELL, CLAUVE, P. MILLER, SHELTON.

Student Health: SCOTT, GEKLER, CHESIRE, JOHNSON, CLAUVE.

Student Loans: KNODE, CLAUVE, P. MILLER.

Student Publications Board: ST. CLAIR, POPEJOY, HALL.

Student Relations: NORTHROP, KNODE, CLAUVE, POPEJOY, KIECH, HAWLEY, COLEMAN.

Summer Session: NANNINGA, HAUGHT, SHANNON, KNODE, CLAUVE.

Teacher Placement: NANNINGA, ST. CLAIR, SIMPSON, JOHNSON, DIEFENDORF.

THE FACULTY OF THE UNIVERSITY

JAMES FULTON ZIMMERMAN, B.A., M.A., Vanderbilt University;
Ph.D., Columbia University.

President of the University and Professor of Government
and Citizenship.

*CHARLES ELKANAH HODGIN, B.Pd., LL.D., University of New Mexico.

Vice-President and Professor of Education, Emeritus.

FRED W. ALLEN, B.A., M.A., Ph.D., University of Kansas.

Assistant Professor of Biology.

NINA M. ANCONA, B.A., University of New Mexico.

Instructor in Pipe Organ, Piano, and Music.

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Instructor in History.

WILLIAM EMMETT BURK, JR., B.F.A., University of Southern California;
Student in the Beaux-Arts Institute of Design.

Special Instructor in Architecture.

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EDWARD FRANKLIN CASTETTER, B.A., Lebanon Valley College; M.S.,
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KENNETH CHAPMAN, Chicago Art Institute; Art Students' League of
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Special Instructor in Indian Art.

*Died August 27, 1934.

MARY CHESIRE, B.S. in P.E., State University of Iowa.

Instructor in Physical Education for Women and Acting
Head of the Department.

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Assistant Professor of Modern Languages.

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Professor of Electrical Engineering and Head of the Department.

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Professor of Secondary Education and Head of the Department;
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JOHN HAZARD DORROH, B.E., C.E., Vanderbilt University.

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*On leave of absence, 1934-35.

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*On leave of absence, 1934-35.

J. C. MACGREGOR.

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Assistant Coach.

SIMON PETER NANNINGA, B.S., Kansas State Teachers College; M.A., Stanford University; Ph.D., University of California.

Dean of the College of Education; Professor of School Administration and Head of the Department; Director of the Summer Session.

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Special Instructor in English.

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Associate Professor of English and Editor, *The New Mexico Quarterly*.

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Assistant Professor of Psychology.

TOM L. POPEJOY, B.A., M.A., University of New Mexico.

Assistant Professor of Economics and Business Administration; Faculty Manager of Athletics and Student Activities Adviser.

BESS CURRY REDMAN, B.A. in Educ., University of New Mexico; American School of Opera.

Instructor in Voice and Music.

*FRANK DRIVER REEVE, B.A., M.A., University of New Mexico.
Assistant Professor of History and Government and Citizenship.

*J. T. REID, B.A., Howard Payne College; M.A., Baylor University.
Director of the Extension Division and Assistant Professor of Education.

MARIA-ELISE JOHNSON RODEY, Pupil of Leopold Auer and Guillaume Remy, Paris.
Instructor in Violin.

CHESTER RUSSELL, B.S. in E.E., M.A., University of New Mexico.
Assistant Professor of Electrical Engineering.

BENJAMIN SACKS, B.A., University of New Mexico; M.A., McGill University; Ph.D., Stanford University.
Instructor in History and Government and Citizenship.

†JAMES E. SADLER.
Special Instructor in Horseback Riding.

JAMES ROBERT SCOTT, B.A., University of California; M.D., Cooper Medical College, Stanford University; Ph.D., George Washington University.
Professor of Health and Head of the Department.

JOHN EDWARD SEYFRIED, B.S., M.A., University of New Mexico; Ph.D., University of California.
Associate Professor of Education.

GEORGE POPE SHANNON, B.A., Vanderbilt University; M.A., Ph.D., Stanford University.
Dean of the College of Arts and Sciences and Professor of English.

WILMA LOY SHELTON, B.A., B.L.S., University of Illinois.
Librarian; Associate Professor of Library Science and Head of the Department.

ELIZABETH P. SIMPSON, B.S., University of New Mexico; M.S., Iowa State College.
Professor of Home Economics and Head of the Department; Supervisor of the Dining Hall.

EDWIN F. SMELLIE, B.S.E., M.S.E., University of Michigan.
Instructor in Mechanical Engineering.

DANE FARNSWORTH SMITH, B.A., aVanderbilt University; M.A., Ph.D., Haryard University.
Instructor in English.

*On leave of absence, 1934-35.

†Resigned November 11, 1934.

EDWIN SNAPP, B.A. in Educ., M.A., University of New Mexico.
Instructor in English.

VERNON G. SORRELL, B.A., State University of Iowa; M.A., University of Illinois; Ph.D., University of California.
Professor of Economics and Business Administration and
Head of the Department; Editor, *The New Mexico Business Review*.

GEORGE ST. CLAIR, B.A., M.A., Whitman College; Ph.D., University of California.
Professor of English and Head of the Department.

GRACE THOMPSON, B.Mus., Defiance College.
Associate Professor of Music and Head of the Department.

MARJORIE FERGUSON TICHY, B.A., Colorado College; M.A., University of New Mexico.
Special Instructor in Archaeology and Anthropology.

LOYD S. TIREMAN, B.A., Upper Iowa University; M.A., Ph.D., State University of Iowa.
Professor of Elementary Education and Head of the Department; Director of the San Jose Training School.

WILLIAM C. WAGNER, B.S. in C.E., South Dakota School of Mines.
Instructor in Civil Engineering.

*PAUL WALTER, JR., B.A., Stanford University; M.A., University of New Mexico.
Editor of Publications; Director of Publicity; Part-time Instructor in Journalism; and Part-time Instructor in Sociology.

ARTHUR S. WHITE, Ph.B., Grove City College; LL.B., M.A., J.D., University of Michigan.
Professor of Government and Citizenship and Head of the Department.

EVERLY-JOHN WORKMAN, B.S., Whitman College; Ph.D., University of Virginia.
Associate Professor of Physics and Head of the Department.

HELENE R. WOYTYCH, B.A., Chicago Musical College.
Instructor in Violin.

DUDLEY WYNN, B.A., University of Texas; M.A., New York University.
Instructor in English.

*On leave of absence, 1934-35.

VISITING INSTRUCTORS

HARTLEY BURR ALEXANDER, B.A., University of Nebraska; Ph.D., Columbia University.

Instructor in Mythology, Religion, and Symbolism at the Jemez Field Session of Archaeology and Anthropology. Scripps College and the University of Southern California.

HUBERT G. ALEXANDER, B.A., Pomona College; Ph.D., Yale University.

Instructor in Field Methods in Archaeology and Ethnology of the Southwest at the Jemez Field Session of Archaeology and Anthropology.

WILLIAM F. BADÈ, B.A., B.D., Ph.D., Moravian College and Theological Seminary; B.D., Yale University; D.D., Pomona College; Litt.D., Mills College; D.D., Glasgow.

Instructor in Archaeological Method and Archaeology of the Near East at the Jemez Field Session of Archaeology and Anthropology.

Pacific School of Religion.

MARIE BALLING, B.S. in Educ., University of New Mexico; M.A., Teachers College, Columbia University.

Visiting Instructor in Education in the 1934 Summer Session. Assistant Principal, Washington Junior High School, Albuquerque, New Mexico.

MALCOLM H. BISSELL, Ph.B., M.A., Ph.D., Yale University.

Instructor in Human Geography at the Jemez Field Session of Archaeology and Anthropology.

University of Southern California.

HOWARD J. DITTMER, B.A., M.A., University of New Mexico.

Instructor in Natural History of the Jemez Valley at the Jemez Field Session of Archaeology and Anthropology. University of Iowa.

NEWELL DIXON, B.A., University of New Mexico.

Instructor in Education in the 1934 Summer Session. Critic Teacher at San Jose Training School.

HENRY PURMONT EAMES, Mus.D., Cornell College, Iowa; LL.B., Northwestern University.

Instructor in American Indian Music at the Jemez Field Session of Archaeology and Anthropology.

Scripps College.

MAE GRAY, The Chicago Art Institute; B.A., University of Illinois; M.A., Teachers College, Columbia University.

Visiting Instructor in Art in the 1934 Summer Session.

Senior High School, University City, Missouri.

CORNELIUS C. KUIPERS, B.S. in Educ., M.A., University of New Mexico.

Instructor in Psychology in the 1934 Summer Session.

PEARL A. LUDY, B.S., Iowa State College; M.A., Teachers College, Columbia University.

Instructor in Home Economics in the 1934 Summer Session.

Eastern New Mexico Junior College, Portales, New Mexico.

MIRIAM MARMON, B.A. in Educ., University of New Mexico.

Instructor in Indian Art at the Jemez Field Session of Archaeology and Anthropology.

Laboratory of Anthropology, Santa Fe, New Mexico.

JOHN MILNE, B.S. in Educ., University of New Mexico; M.A. Teachers College, Columbia University.

Visiting Instructor in Education in the 1934 Summer Session.

Superintendent of City Schools, Albuquerque, New Mexico.

JOAQUIN ORTEGA, M.A., University of Wisconsin.

Visiting Professor of Spanish in the 1934 Summer Session. University of Wisconsin.

WILLIAM WALLACE POSTLETHWAITE, M.A., Colorado College.

Field Assistant in the Chaco Field Session of Archaeology and Anthropology.

Colorado College.

PAUL REITER, B.A., M.A., University of New Mexico.

Curator of the Field Session Museum and Instructor in Museum Technique in the Jemez Field Session of Archaeology and Anthropology.

School of American Research and Museum of New Mexico.

OTTO REUTINGER, B.A. in Educ., M.A., University of New Mexico.

Instructor in English in the 1934 Summer Session.

New Mexico State Teachers College, Silver City, New Mexico.

EDNA ROUSSEAU, B.S. in Educ., University of New Mexico.

Instructor in Education in the 1934 Summer Session.

CHARLIE SCOTT, B.A. in Educ., University of New Mexico.

Instructor in English in the 1934 Summer Session.

ALBERT W. UPTON, B.A., University of Denver; Ph.D., University of California.

Visiting Professor of English in the 1934 Summer Session.

Whittier College.

ESTHER WILKIE, B.A., Whittier College; B.S. in Library Science, University of Illinois.

Librarian at the Jemez Field Session of Archaeology and Anthropology.

School of American Research and Museum of New Mexico.

LELAND C. WYMAN, B.A., Bowdoin College; Ph.D., Harvard University.

Instructor in Human Physiology in the Jemez Field Session of Archaeology and Anthropology.

Boston University Medical School.

CRITIC ARTISTS

SCHOOL OF PAINTING AT TAOS

OSCAR E. BERNINGHAUS, Saint Louis School of Fine Arts.

ERNEST L. BLUMENSCHNEIN, Art Students League, New York; Academy Julian, Paris.

W. HERBERT DUNTON, Cowles Art School, Boston; Art Students League, New York; Pupil of Leon Gaspard.

W. VICTOR HIGGINS, Art Institute and Academy of Fine Arts, Chicago; Academie de la Grand Chaumeire, Paris; pupil of Professor Hans van Hyeck, Munich.

WARD LOCKWOOD, Ransom Academy, Paris.

BERT G. PHILLIPS, National Academy of Design, and Art Students League, New York; Julian Academy, Paris.

JOSEPH HENRY SHARP, Studied in Antwerp under Charles Veriat; Munich Academy under Carl Marr; with Jean-Paul Laurens and Benjamin Constant, Paris; and with Duveneck in Italy and Spain.

WALTER UFER, Royal Applied Art Schools and Royal Academy, Dresden; Art Institute, Chicago; student of Walter Thor, Munich.

EXTENSION DIVISION

NON-RESIDENT INSTRUCTOR

JOSUE TRUJILLO, B.A., New Mexico State Teachers College; M.A., University of New Mexico.

Instructor in Spanish.

GRADUATE FELLOWS

PATTY MILLER BALES, B.A., Western College for Women, Oxford, Ohio.

Graduate Fellow in Education.

JAMES M. BICKLEY, B.A., New Mexico Normal University.

Graduate Fellow in the 1934 Summer Session.

DAVID CLARENCE BURD, B.A., University of New Mexico.

Graduate Fellow in Psychology, first semester, 1934-1935.

HELEN HEACOCK ELLIS, B.A. in Educ., University of New Mexico.

Graduate Fellow in Government and Citizenship.

KATHERINE HAMMOCK, B.A. in Educ., University of New Mexico.

Graduate Fellow in Spanish.

EDWIN G. HOBBS, B.A., New Mexico State Teachers College.

Graduate Fellow in the 1934 Summer Session.

LEE MCGUINNESS, B.S., University of New Mexico.

Graduate Fellow in Geology.

R. ALONZO MCLESKY, B.A., Daniel Baker College, Brownwood, Texas.

Graduate Fellow in the 1934 Summer Session.

RITA SANCHEZ, B.A. in Educ., University of New Mexico.

Graduate Fellow in Spanish.

WALDEMAR SCHAEFER, B.S., University of New Mexico.

Graduate Fellow in Biology.

CALVIN H. SCHMITT, B.A., University of Dubuque, Iowa.

Graduate Fellow in Psychology, second semester, 1934-1935.

IVAH SHALLENBERGER, B.S., New Mexico State College of Agriculture and Mechanic Arts.

Graduate Fellow in Spanish, part-time.

MARJORIE VAN CLEAVE, B.S. in Educ., University of New Mexico.

Graduate Fellow in Biology.

GERTRUDE WARNER, B.A., University of New Mexico.

Graduate Fellow in English.

STUDENT ASSISTANTS

ROY BARKER, Student Assistant in Biology.

METZ BEAHM, Student Assistant in Engineering.

BLANCHE TRIGG BONNER, Student Assistant in English.

HUGH DUTTER, Student Assistant in Engineering.

BERTHA P. DUTTON, Student Assistant in Archaeology and Anthropology.

FRANK FALKENBERG, Student Assistant in Philosophy.

HORACE GARDNER, Stockroom Assistant in Chemistry.

EMILIO LOPEZ, Student Assistant in Physical Education.

LIONEL MCCRAY, Student Assistant in Mathematics.

WENDELL MILLER, Student Assistant in Economics and Business Administration, part-time.

BODIE PRYOR, Stockroom Assistant in Chemistry.

MAY STIRRAT, B.A. in Educ., Student Assistant in History.

JAMES SWAYNE, Student Assistant in Government and Citizenship.

MARY WILLS, B.A., Student Assistant in Art.

GENERAL STATEMENT

HISTORY

The University of New Mexico, located in Albuquerque, was created in 1889 by an act of the territorial legislature. The new institution was opened in rented rooms as a summer normal school on June 15, 1892, and began regular instruction on September 21, in the first building erected on the campus. The Honorable E. S. Stover, one of the charter Regents of the University, was made the nominal president, and served five years. During his term, Principal George S. Ramsey was in direct charge of the institution for two years, followed by Professor Hiram Hadley, vice-president, who was in charge from 1894 to 1897. In the summer of 1897, the Regents of the University elected Dr. C. L. Her- rick, of Denison University, as the first active president.

He was succeeded by Dr. William G. Tight, also of Denison University, in whose administration the University adopted its unique architectural style.

Upon the resignation of President Tight, in 1909, Dr. E. D. McQueen Gray served as president until 1912. He was followed by Dr. David Ross Boyd. In 1919, the Regents chose as president Dr. David Spence Hill, who served until September 1, 1927. In his administration the University became a member of the North Central Association of Colleges and Secondary Schools. Dr. Hill was on leave of absence from January 22 to September 1, 1927, during which time Dr. James Fulton Zimmerman served as acting president. Before the termination of this period he was elected president and assumed his duties on September 1, 1927.

Since that date, the physical and numerical growth of the University has been very rapid. Its academic standing has recently been attested by the approval of the Association of American Universities.

SITUATION AND ENVIRONMENT

The University is situated in Albuquerque, a modern city of over 30,000 inhabitants. The altitude is over 5,000 feet above sea level. The climate is mild throughout the year, and the air is dry, cool, and exhilarating.

Historic Santa Fe is located about sixty miles north of Albuquerque. The picturesque Indian pueblos of Taos, Jemez, Isleta, and Acoma are nearby.

AIM

The aim of the University of New Mexico is to place the resources of higher education of the State, so far as possible and with the least possible restriction, at the disposal of any person who desires and has sufficient qualifications to use them. In the performance of its function, the University is endeavoring to attract young men and women of ability and character and to train them for leadership. To meet its aims the University has been organized as follows: the College of Arts and Sciences, the College of Engineering, the College of Education, the Graduate School, the Extension Division, the Summer Session, and the Field Sessions.

SUPPORT

The University is supported chiefly by appropriations made for its maintenance by the State Legislature; by income from the proceeds of the rental of lands granted to it by the Federal Government when New Mexico became a state; by the income from royalties on the oil taken from these lands; and by student fees.

GOVERNMENT

The government of the University is vested in the Regents of the University. Five regents are appointed by the Governor of the State for a term of four years; the Governor and the Superintendent of Public Instruction are ex-officio members of the board.

BUILDINGS AND GROUNDS

The campus of the University is near the eastern end of the city of Albuquerque. The portion of the campus within the city limits, about ninety acres, has been beautified by trees, lawns, and shrubs, and contrasts pleasantly with the nearby mesa.

The unique architecture of the University buildings is appropriate to the Southwest. Their style, an adaptation of the Indian pueblo, was adopted in 1905 and has been adhered to since that time.

The present Administration building, the first on the campus, was built in 1892. In 1908 it was remodeled in the adapted pueblo style of architecture. The administrative offices and several departmental offices and classrooms are in this building.

The Music Hall, built in 1902 for a dining hall and girls' residential hall, now houses the Music Department.

The Power House, built in 1905, was the first building to be erected in the adapted pueblo style of architecture. It is the central heating plant for the University.

Kwataka, a residential hall for men, was built in 1906. Its name is Hopi and means "man-eagle." The design which is seen near the entrance appears on all Hopi pottery. It is a bird worshipped for its strength, alertness, and swiftness.

Hokona, the first wing of the women's residential hall, composed of suites to accommodate thirty girls, was built in 1906; single rooms were added in 1921, the south wing in 1922, and the Senior hall in 1930. The name means "butterfly maiden." Hokona is a diety worshipped between planting and harvest. The design at the entrance represents the butterfly and bird symbol, the mountain symbol, the lightning symbol, and several broken circles to allow the exit of evil spirits.

Rodey Hall, built in 1909, is an exact copy of the church at Taos, and was named for and dedicated to the memory of Bernard S. Rodey, the author of the bill creating the Uni-

versity. This building recently has been made into a campus theater.

Science Hall was built in 1910 after the fire which destroyed the original Hadley Hall. This building provides offices, classrooms, and laboratories.

The Chemistry Building, built in 1916 and enlarged in 1923, is a modern and completely fireproof structure, which contains the Chemistry Department as well as the State Public Health Laboratory.

Hadley Hall was first erected in 1900 with money largely contributed by the widow of Walter C. Hadley, a friend of the University. This building was burned in 1910 and at that time the Science Hall was built. In 1920 the first unit of the present engineering building was completed and named Hadley Hall. This building was enlarged in 1931. Hadley Hall houses the College of Engineering and the Department of Mathematics.

Sara Raynolds Hall, the home economics building, was erected in 1921 and dedicated to the women and children of New Mexico. It is named for the mother of Joshua Raynolds, who contributed generously to the original equipment of the building.

The Korber Building, north of the gymnasium, was built in 1925 for a radio station and named in honor of Jacob Korber, whose family made a substantial contribution to the construction fund. This building, with a recent addition, now houses the University Press.

The Library, built in 1926 and completely fireproof, contains the University library, which includes collections of interest to the people of New Mexico and the Southwest.

The Biology Building, built in 1928, directly north of the Chemistry Building, is made up of modern offices, laboratories, and large classrooms.

The Lecture Hall, built in 1928, is situated directly west of the Biology Building, and contains a large lecture room and offices of the Extension Division, the North Central

Association High School Visitor, the Director of the San Jose Training School, and others.

The Men's New Dormitory, built in 1928, north of the gymnasium, affords modern living quarters for thirty boys.

Carlisle Gymnasium, built in 1928, was named for Hugh A. Carlisle, a former student of the University who lost his life in the World War. A modern, well equipped gymnasium for both men and women, it is also used as an assembly hall and auditorium.

The President's residence, located on the northeast corner of the campus, was built in 1930.

The Dining Hall (1930), a thoroughly modern building, not only serves as the University Dining Hall, but affords a place suitable for faculty and student meetings and social affairs.

The Stadium Building, which has just been completed, is of all steel construction. It combines the Stadium, which has a seating capacity of 5,000, with a building which contains classrooms and offices of the Director of Athletics and Faculty Manager of Athletics and Student Activities.

The new Administration and Laboratory Building, made possible by loan and grant from the Public Works Administration, is now under construction and will be ready for occupancy by the opening of the fall semester, 1935. It is located near the northern end of the campus across Terrace Avenue. The administrative offices and the Departments of Archaeology and Anthropology, Geology, Physics, and Psychology will be in this building.

The fraternities and sororities have been authorized to build chapter houses on the campus under the proper supervision, the location, type of house, etc., to be approved by the University.

THE LIBRARY

The library contains approximately 50,000 bound volumes. It is the designated depository of the government documents, and this material, together with that received

from the colleges, universities, and various learned societies, constitutes a valuable reference collection. The library receives 479 general and technical periodicals, and, through the courtesy of New Mexico editors, a number of the State newspapers.

The library is primarily for the use of the faculty and the students in all departments of the University, but residents of the State are urged to consult it freely. Books and pamphlets will be lent upon request, and, where it is impossible to lend material, reference lists or suggestions as to the sources of information are gladly given.

The Carnegie Corporation, in 1930, gave the University \$5,000.00 a year for a period of five years for the purchase of books. This gift has made it possible to build up the book resources of the library in every field.

In 1930 the library received as a loan a part of the late Senator Catron's library comprising 1,323 books on religion and history in several languages, chiefly Spanish and Latin. An additional collection of approximately 5,000 volumes has been received from the Catron family. This collection is composed of standard works of reference and books in practically every field of knowledge.

During the fall and spring semesters, the library is open every day except Saturday and Sunday from 7:45 A. M. to 9:00 P. M.; on Saturday, from 7:45 A. M. to 6:00 P. M. During the summer session, the hours are from 6:45 A. M. to 9:00 P. M. every day except Sunday.

NEW MEXICO HIGH SCHOOLS ACCREDITED

1933-34

NAME OF SCHOOL	STATE ACCREDITED			MEMBER
	4 year	3 year	2 year	N.C.A.
Alamogordo	X			X
Albuquerque	X			X
Allison-James, Santa Fe, N. M.	X			
Amistad		X		
Animas		X		
Anthony	X			X
Artesia	X			X
Atarque		X		
Aztec	X			
Belen	X			X
Bellview	X			
Bernalillo	X			
Capitan	X			
Carlsbad	X			X
Carrizozo	X			X
Central Consolidated, Kirtland, N. M.	X			
Cerrillos	X			
Cimarron	X			
Clayton	X			X
Cliff	X			
Cloudcroft	X			
Clovis	X			X
Columbus			X	
Corona	X			
Costilla	X			
Cuba		X		
Dawson	X			X
Deming	X			X
Des Moines	X			
Dexter	X			
Dora		X		
Duran		X		
Edith McCurdy Mission, Santa Cruz, N. M.	X			
Elida	X			X

NAME OF SCHOOL	STATE ACCREDITED			MEMBER
	4 year	3 year	2 year	N.C.A.
Endee	X			
Espanola	X			
Estancia	X			
Farmington	X			
Floyd	X			
Folsom		X		
Forrest Consolidated, Melrose, N. M.	X			
Fort Sumner	X			X
Gallup	X			X
Grady	X			
Grants Union	X			X
Grenville	X			
Hachita		X		
Hagerman	X			X
Harwood Girls School, Albuquerque, N. M.			X	
Hatch Union	X			X
Hillsboro	X			
Hobbs	X			
Hollene	X			
Hondo	X			
Hope	X			
Hot Springs	X			X
House	X			
Hurley	X			X
Immaculate Conception, East Las Vegas, N. M.	X			
Jal		X		
Kiowa, Cunico, N. M.	X			
La Joya	X			
Lake Arthur	X			
Las Cruces Union	X			X
Las Vegas	X			X
Lindrith			X	
Logan	X			
Lordsburg	X			X
Loretto Academy, Santa Fe, N. M.	X			
Loretto Academy, Las Cruces, N. M.	X			
Lovington	X			
Magdalena	X			

NEW MEXICO SCHOOLS ACCREDITED

[33

NAME OF SCHOOL	STATE ACCREDITED			MEMBER N.C.A.
	4 year	3 year	2 year	
Mansker, Clayton, N. M. -----		X		
Maxwell -----	X			
McAlister -----	X			
Melrose -----	X			
Menaul School, Albuquerque, N. M. X-----				
Miami -----		X		
Mills -----	X			
Monticello -----		X		
Mora -----	X			
Moreno Valley, Therma, N. M. -----		X		
Moriarity -----		X		
Mosquero -----	X			
Mountainair -----	X			
Nara Visa -----	X			
New Mexico Military Institute, Roswell, N. M. -----	X			X
New Mexico Normal University, Las Vegas, N. M. -----			X	
New Mexico State Teachers College, Silver City, N. M. -----	X			X
New Mexico School for the Blind, Alamogordo, N. M. -----	X			
Pecos -----	X			
Pena Blanca -----	X			
Penasco -----	X			
Pleasant Hill, Texico, N. M. -----	X			
Portales -----	X			X
Porter, San Jon, N. M. -----	X			
Prairie View, R. 1, Lovington, N. M. -----		X		
Quay -----		X		
Quemado -----		X		
Ramah -----		X		
Ranchvale -----	X			
Raton -----	X			X
Reserve Union -----	X			
Rogers -----	X			
Roswell -----	X			X
Roy -----	X			X
Sacred Heart Academy, Waterflow, N. M. -----			X	

NAME OF SCHOOL	STATE ACCREDITED			MEMBER
	4 year	3 year	2 year	N.C.A.
Sacred Heart School, Gallup, N. M. -----	X			
St. Mary's Academy, Silver City, N. M. -----	X			
St. Mary's High School, Albuquerque, N. M. -----	X			
St. Michael's College, Santa Fe, N. M. -----	X			
St. Patrick's Academy, Raton, N. M. -----	X			
St. Vincent Academy, Albuquerque, N. M. -----	X			X
San Jon -----	X			
Santa Cruz -----	X			
Santa Fe -----	X			X
Santa Rosa -----	X			
Sedan -----		X		
Seneca -----		X		
Socorro -----	X			
Sofia, Grenville, N. M. -----		X		
Solano -----		X		
Solomon Luna, Los Lunas, N. M. -----	X			
Spanish-American Normal, El Rito, N. M. -----	X			
Springer -----	X			X
Taos -----	X			
Taiban -----		X		
Tatum -----	X			
Tererro -----			X	
Texico -----	X			
Tierra Amarilla -----	X			
Tucumcari -----	X			X
Tularosa -----	X			X
Vaughn -----	X			X
Virden, Duncan, Arizona -----	X			
Wagon Mound -----	X			
Weed -----	X			
Wheatland, Taylor Springs, N. M. -----	X			
Willard -----	X			

NOTE: Unless otherwise indicated, the location of the school is in the town of the same name.

ADMISSION TO THE UNIVERSITY

Students between the ages of sixteen and twenty-one are admitted to the undergraduate colleges either by certificate or by examination. Applicants who are over twenty-one years of age may be admitted as regular students by certificate or by examination, or may be admitted as adult special students.

To be assured against delay in registration, prospective students should present all necessary credentials pertaining to admission at least one week before the opening of the semester, and earlier if possible. The Registrar will notify the applicant regarding his status as soon as possible after complete credentials are received.

To avoid possible disappointment, students should not appear for registration until after they have been assured in writing that they will be accepted as regular or special students.

ADMISSION BY CERTIFICATE

Graduates of accredited secondary schools will be admitted without examination provided that the subjects pursued, and their certification, meet the requirements of the college in which the applicant desires to matriculate. If the applicant is not a graduate, but is able to present a certificate showing that he has fulfilled the specific requirements for admission, together with a statement from the superintendent or principal that he is in good standing in the school, and that, in the superintendent's or principal's judgment he is able to pursue college work successfully, he will be admitted to regular status on trial.

Students desiring to enter as freshmen on the certificate plan should

- (1) Secure from the Registrar of the University a blank certificate of recommendation and have it filled out and signed by

the principal or superintendent of the high school attended, who should return it directly to the Registrar's office;

- (2) Fill out and return the application blank for admission which may be found inside the back cover of this catalog.

Secondary schools in New Mexico accredited by the North Central Association of Colleges and Secondary Schools or by the State Department of Education, and all other secondary schools in other states accredited by regional associations or by the universities of those states, are, ipso facto, accredited by the University of New Mexico.

The requirements for admission are stated in terms of high school units. The term "unit" means the completion of a course of study consisting of five recitation periods of at least forty minutes each week during thirty-six weeks.

Fifteen acceptable units earned in a four-year high school or eleven units earned in a three-year senior high school are invariably required for admission to the undergraduate colleges. Some of these units are prescribed, while others are elective.

A student is admitted in good standing to any undergraduate college if ten of the fifteen units from a four-year high school or eight units from a senior high school are of a grade or quality of work above the lowest passing mark of his school, where grades are indicated by letters or symbols, or above 76% where grades are indicated by numerals and 70% indicates the passing mark.

Applicants who cannot meet this requirement may be admitted on trial. Such students are automatically limited to 14 hours' work (including physical education) as a maximum.

For convenience subjects usually offered in secondary schools are classified in six groups. The groups with subjects required or accepted in each are

Group A. English

Three or four units

Group B. Foreign Language

Not less than one unit in any foreign language will be accepted.

Group C. Social Sciences

The maximum accepted from this group is four units.

- (1) Ancient History
- (2) Medieval and Modern History
- (3) English History
- (4) United States History
- (5) General History (but not in addition to Ancient or to Medieval and Modern History)
- (6) New Mexico History and Civics, $\frac{1}{2}$ unit
- (7) Economics, $\frac{1}{2}$ unit
- (8) Sociology, $\frac{1}{2}$ unit
- (9) Civics, freshman course, 1 unit
- (10) American Problems (Under this heading will be counted the advanced course in civics ordinarily found in the fourth year.)

Group D. Mathematics

- (1) When two units are offered in algebra, the second unit must consist of one-half unit of intermediate, and one-half unit of advanced algebra.
- (2) Plane Geometry, 1 unit
- (3) Solid Geometry, $\frac{1}{2}$ unit
- (4) Trigonometry, $\frac{1}{2}$ unit
- (5) Advanced Arithmetic, $\frac{1}{2}$ -1 unit

Group E. Natural Sciences

- (1) Biology, elementary, 1 unit. (May include botany, one-half unit, and zoology, one-half unit.)
- * (2) Chemistry
- † (3) General Science
- (4) Geology
- † (5) Physical Geography or Physiography
- * (6) Physics
- (7) Physiology and Hygiene

*No credit given for less than one unit of laboratory science.

†Not accepted as a laboratory science.

Group F. Vocational and miscellaneous subjects.

The maximum accepted from this group is four units. The maximum of four units in any one subject will be accepted only after special consideration in each case. It is recommended that the four units include credit in two or more subjects.

- (1) Agriculture
- (2) Art
- (3) Bible
- (4) Commercial Subjects
- (5) Home Economics (domestic art and domestic science)
- (6) Industrial Subjects
- (7) Manual Training and Arts (including drawing, printing, etc.)
- (8) Music
- (9) Journalism

(NOTE—No credit will be allowed for less than one-half unit in any subject. Laboratory sciences must be scheduled for seven periods per week unless the periods are sixty minutes in length. One unit credit for subjects not requiring outside preparation will be given only when such subjects are scheduled for double periods when periods are less than sixty minutes in length.)

Optional Subjects: Other subjects completed in accredited high schools will be considered on their merits.

For admission to the colleges, applicants must fulfill the following requirements, and in case of deficiency, no applicant shall be admitted unless he can qualify as an adult special student.

A. REQUIREMENTS FOR ADMISSION TO THE COLLEGE OF ARTS AND SCIENCES AND THE COLLEGE OF EDUCATION

I. FOR GRADUATES OF FOUR-YEAR HIGH SCHOOLS

1. Group A. English, 3 units.

(NOTE—In the case of foreign students, their native language and literature will be accepted in lieu of the above requirement of English, if equivalent in nature and amount, but they must have a working knowledge of English.)

2. Groups B-E inclusive, 3 units in one group and 1 unit in another or 2 units in each of three

(NOTE—If foreign language is offered toward this requirement, at least 2 units must be in one language.)

3. Electives from Groups A-F to make a total of 15 acceptable units, but with a maximum of 4 units from Group F

It should be kept in mind that students deficient in mathematics generally are handicapped in college work. Students who intend to specialize in science should have a thorough preparation in mathematics and sciences. Students will find it advantageous to have had three years' work in a foreign language. Many schools of law and schools of medicine require, or strongly urge, Latin.

II. FOR GRADUATES OF SENIOR HIGH SCHOOLS

Graduates of accredited senior high schools (grades 10, 11, and 12) will be admitted to the University on the basis of their records in the senior high school. No attention will be paid to the work done in the junior high school (including the ninth grade) except as this may include courses preparatory to courses pursued in the senior high school. For example, if the second year of a language is carried in the senior high school, the pupil's transcript should show that the first year has been completed in the junior high school. (No final grade or course description is necessary for work done in the junior high school.)

1. Group A. English, 2 units

(NOTE—In the case of foreign students, their native language and literature will be accepted in lieu of the above requirement of English, if equivalent in nature and amount, but they must have a working knowledge of English.)

2. Groups B-E, inclusive, 4 units, 2 of which must be in the same group
3. Electives from Group A-F to make a total of 11 acceptable units but with a maximum of three units from Group F

B. REQUIREMENTS FOR ADMISSION TO THE COLLEGE OF ENGINEERING

For admission to the College of Engineering, applicants must fulfill the following requirements, and in case of deficiency, no applicant shall be accepted unless he can qualify as an adult special student.

I. FOR GRADUATES OF FOUR-YEAR HIGH SCHOOLS

1. Group A. English, same as for College of Arts and Sciences
2. Groups B-E inclusive, same as for College of Arts and Sciences, except that either 2 or 3 units in mathematics must be offered toward this requirement
3. Electives from Group A-F to make a total of 15 acceptable units, but with a maximum of 4 units from Group F

II. FOR GRADUATES OF SENIOR HIGH SCHOOLS

Same as for College of Arts and Sciences except that 1 or 2 of the 4 units required from Groups B-E inclusive, must be in mathematics.

It is recommended that high school students intending to matriculate in the College of Engineering should include physics and all the mathematics possible in their offerings for admission. Students with such deficiencies are likely to find that they cannot complete the curriculum in four years.

ADMISSION BY EXAMINATION

Graduates of non-accredited or partially accredited high schools, or applicants whose high school preparation is incomplete, are expected to take examinations over that portion of their work which is unaccredited or incomplete.

Entrance examinations are given at the University at the beginning of each semester. Applicants who desire to take such examinations should notify the Registrar at least one week in advance.

ADMISSION WITH ADVANCED STANDING

Students transferring from other accredited colleges and universities may be admitted and receive tentative advanced standing for courses completed upon the presentation of proper certificates of credits and of good standing. All applications for advanced standing should be addressed to the Registrar. Transcripts should be sent directly to the Registrar of the University of New Mexico by the Registrar of the institution from which the student is bringing credit. Transcripts otherwise presented are subject to verification.

Students transferring from unaccredited institutions are usually accepted on the same basis as by the state university of the state in which the institution is situated. Where it seems proper, examinations for the validation of credit may be required.

The following credentials are required of prospective students from other colleges:

- (1) A complete transcript of all high school work, including a statement of graduation, to be sent directly from the high school from which the student graduated (This is not necessary in the case of students transferring from an institution accredited by the North Central Association of Colleges and Secondary Schools or by some other regional accrediting agency, or from an institution approved by the Association of American Universities.);
- (2) A complete transcript of all college work, to be sent in from each institution attended, and to be accompanied in each case

by a letter of honorable dismissal and a statement of good standing;

- (3) The application blank for admission, found inside the back cover of this catalog, completely filled out;
- (4) Copies of school catalogs or courses of study for the years in attendance at each institution.

Work done at other colleges or universities will be accepted in so far as it is of the average quality required for graduation from the University of New Mexico. (See page 57.) If any of the work is below this quality, courses with low marks will be disallowed in sufficient quantity to bring the work up to the required standard.

Students who are disqualified for re-registration in other colleges or universities on the basis of their records (scholastic or conduct) will usually be considered for admission to the University of New Mexico after the period of their disqualification; but the University authorities may vary this procedure to whatever degree the circumstances may require.

ADMISSION OF ADULT SPECIAL STUDENTS

Persons over twenty-one years of age who cannot meet the regular entrance requirements may be admitted as special students provided they secure the recommendation of the instructors whose work they desire to take and the approval of the dean of the college concerned. They must give evidence of ability to pursue with profit such courses as they elect.

By virtue of his classification, a special student is not eligible for any degree, but may become a candidate ultimately by completing the admission requirements.

Upon registration, a student entering as an adult special student must present official transcripts of any high school or college credit which he may have earned previously. He will not be permitted to continue his status as an adult special student longer than one year, except by special permission of the Committee on Entrance and Credits.

ADMISSION OF AUDITORS

Mature students may attend classes as auditors, without credit, upon the permission of the instructors concerned and of the dean of the college in which most of the audited courses lie and upon the payment of the same fees as are paid by regular students.

Auditors are not expected to recite, take tests, perform experiments, or otherwise participate in the activities of the class. They shall, upon registration, declare themselves as auditors, and may not change to a credit basis after the first six weeks.

ADMISSION TO THE GRADUATE SCHOOL

Students may be admitted to the Graduate School upon the completion of all the scholastic requirements for the bachelor's degree in this university or in some other institution of approved rank. (See page 133.)

REGISTRATION

FRESHMAN WEEK

At the opening of each fall term, a "Freshman Week" program is carried through. This program, for the year 1935-1936, will start Thursday morning, September 12, at nine o'clock and continue through the succeeding Sunday. Instructions and information of all kinds regarding the University will be given. Besides preliminary tests and registration of freshmen, numerous recreational events will be carried on during this period.

The purpose of freshman week is to make the new student feel at home from the beginning, to put him in touch with the proper advisers and counselors, and to familiarize him with university methods and routine, so that, when the regular work begins, it will not be necessary for him to spend the usual time and energy in making adjustments.

Attendance of all freshmen is required for the full period, but freshmen with ten hours credit are excused from all exercises except the tests.

TESTS FOR FRESHMEN

All students admitted as freshmen are given intelligence and achievement tests and a medical examination. These tests are designed to reveal the students' aptitude for college work and previous training in the subject matter. It should be understood, however, that the tests have no bearing upon the students' right to entrance, which is determined solely by units of work earned in high school.

Every student registered in freshman English is examined as to his ability to use clear, correct, idiomatic English. No student can pass this test or continue in English 21, who shows serious weakness in spelling, punctuation, grammar, diction, or sentence structure. Mere fluency or facility in writing will not be accepted in place of accuracy in these

respects. Students who do not pass this proficiency examination are enrolled in a review course designed to make up that deficiency (see English 11).

Tests are also given in Spanish by the Department of Modern Languages and, in the College of Engineering, aptitude tests in mathematics are required.

TIME OF REGISTRATION

All persons are required to register on the days set aside for registration, and students may not be admitted to the University more than ten days after the opening of a semester except with the permission of the dean of the college concerned.

METHOD OF REGISTRATION

All persons who are enrolling in the University of New Mexico for the first time should have certified transcripts of their work beyond the eighth grade sent directly to the Registrar. No student may proceed with registration until he has received from the Registrar a permit to register together with a statement of his status in the University. (See page 35.)

The steps necessary to complete registration are as follows:

- I. A census card should be made out in full and presented at the Registrar's office, where it will be taken up. Cards will be given to each student showing the college in which he wishes to enroll and his classification.
- II. Registration in classes is carried on in the gymnasium.
- III. After registration in the gymnasium has been completed, students should go to the office of the Business Manager, where all fees will be collected.

MEDICAL EXAMINATIONS

A medical examination is required of every new student upon registration in the University.

Any prospective student asking admission to the University who is suffering from active tuberculosis or who is taking treatment for tuberculosis, is to be excluded from the campus whether the case is termed "active" or "inactive." In all such cases the University physician is to be the final judge.

The University reserves the right to examine a student at any time for the purpose of ascertaining health conditions.

REQUIRED SUBJECTS

All freshmen are enrolled in freshman English, physical education, philosophy (orientation), and health. All sophomores are enrolled in physical education. For specific requirements leading to degrees in the various curricula, students should refer to the courses of study outlined in the different colleges. Students following a given curriculum should take required subjects in the year indicated in the curriculum. Substitutions for required courses may be made only with the consent of the dean of the college concerned.

PROGRAM OF STUDIES

Regular students are expected to enroll for from fourteen to seventeen credit hours, unless for reasons presented in writing and duly approved by the dean. This restriction does not apply to students who by special arrangement are enrolled for six hours or less. To meet the requirements of eligibility, students must enroll for at least twelve credit hours.

CHANGE IN PROGRAM OF STUDIES

A student who desires to make a change in his program of studies makes application to the dean of his college for the proper blank. The change in program is not valid until this blank has received the signatures of the instructors of the courses dropped and added; of the head of the department in which the student has elected his major study, or in the case of a freshman or a sophomore, his adviser; of the Business Manager; of the dean of men or women; and of the dean of his college. When a student drops a course in which he is failing he shall receive WF. (See page 49-50.) Changes made after two weeks, except on written demand of the instructor, or at the direction of an administrative officer, require the payment of one dollar.

CHANGE IN COLLEGE

A student who desires to change from one college to another secures petition blanks from the dean of his college. If the change is approved by the dean, the student should present the petition to the dean of the college he desires to enter. After the petition is approved by the deans of both colleges concerned, it is filed with the Registrar.

CHANGES IN MAJORS AND MINORS

Upon registration, each upper class student indicates upon his registration cards his major and minor departments, and, in the College of Education, the curriculum which he is following.

A student wishing to change a major or minor which has been previously declared may do so at the beginning of any semester by filling out a petition blank requesting the change and by having the petition approved by the heads of the departments concerned. The petition should be filed in the Registrar's office.

REGISTRATION IN EXTENSION COURSES

Students in residence may enroll for correspondence or extension courses if they secure written permission of the dean of their college. This permission will ordinarily be given, provided that the total campus and correspondence enrollment does not constitute an excessive load.

WITHDRAWAL OF COURSES

The University reserves the right to cancel or withdraw any course for which enrollment is too small to justify its continuance, or for other causes.

GENERAL ACADEMIC REGULATIONS

CLASS HOURS AND CREDIT HOURS

A class hour consists of fifty-three minutes, and one class hour a week recitation or lecture throughout a semester earns a maximum of one credit hour. One class hour of laboratory work, orchestra, chorus, or physical training a week throughout a semester earns from one-third to one-half credit hour. One lesson in voice or piano a week throughout a semester earns two credit hours.

Mid-semester and final reports listing grades for all students in each subject are turned in to the Registrar.

GRADES AND GRADE POINTS

The work of students is evaluated by grades and grade-points. The grades in courses are based upon daily work and upon examinations, and are intended to be the resultant of the quantity and quality of work done. Grade-points are assigned for work of C grade or better, and are used in various ways in determining a student's standing and progress. The following table gives the meaning and grade-point value of the several grades.

A	3 grade-points	Excellent
B	2 grade-points	Good
C	1 grade-point	Average
D		Barely Passing
X		Conditioned
F		Failed
I		Work not completed
WF	Withdrawn before end of semester with grade F*	
WP	Withdrawn before end of semester with passing grade.	

*This grade may be given (1) when a student drops a course in which he is failing, (2) when a student is dropped from a course for disciplinary reasons, (3) in those courses in which a student is failing when he withdraws from the University after January 1 and May 1, and (4) when the student is dropped from the course at the instructor's request.

The conditional grade of X signifies that a student's work is poor, but not decisively passing or failing. Either X or F may be given, at the instructor's discretion, when a student's work is seriously incomplete without good reason.

The grade of I signifies that, for some good reason, a student has been unable to complete all the work of a course, but has made a satisfactory record in the work actually done, and may reasonably be expected to complete the course in due time.

A grade of X or I can be changed to a passing grade during the student's next two semesters of residence in the University, in a manner to be determined in each case by the instructor concerned, with the approval of the dean of the college in which the student is enrolled. The highest possible grade to be obtained by the removal of X is D. After the expiration of two semesters of residence, an unremoved X or I automatically becomes F.

A student who withdraws from a course during the semester will receive the grades WP, if he is passing at the time of withdrawal; WF, if he is failing at the time of withdrawal.

A student who withdraws from the University after January first or May first will receive the grades WP, if he is passing at the time of withdrawal; WF, if he is failing at the time of withdrawal.

No passing grade can be raised by a special examination.

A student's academic standing at any time is stated in terms of a scholarship-index obtained by dividing his total number of grade points by the total number of hours taken. All honors and prizes depending upon scholarship will be determined by ranking the students according to this index.

SPECIAL EXAMINATIONS

A special examination is one taken at another time than regularly with a class and, unless otherwise specified,

a fee of two dollars is charged for such an examination. No fee is charged for entrance examinations or for the validation of credit earned in some other higher educational institution. No fee shall be charged for the removal of an I, if the grade of I shall have been given for reasons approved by the dean of the college. Before the student is admitted to a special examination for which a fee is charged, he must present a permit signed by the dean of his college and a receipt for the special examination fee signed by the Business Manager. The fee is charged for each final semester examination in a course when sanctioned for any other time than provided for in the schedule, and for each special examination held to remove conditions. The instructor shall decide whether the fee shall be collected for special examinations given within the semester.

No final examination may be given to a class before the time appointed by the Committee on Program of Classes and Rooms.

EXAMINATION FOR ADVANCED STANDING

A student in residence shall have the privilege of passing a course in the University by special examination without attendance upon the course and receive full credit therefrom, such privilege to be subject to the following restrictions:

1. The applicant shall have a scholarship index of two or more on the work taken during the preceding semester; he shall be doing superior work at the time of taking the examination; and he shall have been in residence for at least one semester.
2. The examinations shall have the approval of the dean of the college, of the head of the department, and of the instructor concerned.
3. The applicant shall pay in advance the regular fee required in examinations for advanced standing.
4. The student shall obtain in the examination a grade not lower than C and shall show a mastery of the course

acceptable to an examining committee of three appointed by the dean, including the instructor and the head of the department concerned.

DISHONESTY IN EXAMINATIONS

A student found guilty of dishonest practices in a quiz, test, examination, or other work may be suspended or dismissed or otherwise penalized.

REGULATIONS ON ATTENDANCE OF UNDERGRADUATES

1. Students are expected to attend all meetings of the classes in which they are enrolled.
2. A student absent for any reason whatsoever is expected to do the full work of the course. It is the duty of the student to take the initiative in holding a conference with his instructors in regard to making up lost work.
3. It shall lie in the province of the instructor to judge whether work lost by absence may be made up, and in what manner, subject to the following provisions:
 - a. For students with a grade below B in any course an excuse satisfactory to the instructor for any two successive absences must be obtained through the office of the Dean of Men or the Dean of Women, subject to the refusal of the instructor to arrange for make-up work. Permission for such make-up work shall not be granted for any absence on a day preceding or following a holiday, without the concurrence of the Dean of Men or the Dean of Women.
 - b. Any student who maintains a grade of B or above in any given course shall be released from the requirements in Section a, above, and shall be subject only to such restrictions as may be imposed by the instructor in that course.

- c. In every case, the instructor retains the right to decide how the grade in the course is affected by non-attendance, to decide when the student is not entitled to credit on account of absence, and to recommend dismissal from the course as provided in Section 4.
- 4. It shall lie in the province of the dean to administer discipline for neglect of duty as indicated by unexcused absences:
 - a. To withdraw a student from a course with the grade of WF when the instructor reports that the student cannot pass the course on account of failure to complete a sufficient amount of work, due to absences or to any other cause.
 - b. To recommend dismissal from the University on the ground of neglect of duty when a student has thus been withdrawn from two courses, including physical education and assembly.
- 5. a. Absences are excusable when incurred by students who are granted permission in advance by the Dean of Men or Dean of Women to represent the University in some approved activity outside the city. Such permission shall be applied for by the director of the activity.
- b. Absences incurred on account of illness amounting to two or more successive days may be excused by the Dean of Men or Dean of Women on the statement of the attending physician or responsible person.
- c. The dean concerned will notify the instructors of the cause of such absences. The term "excused absence" means merely that administrative officials will not impose discipline on account of absences, also that the student is to no extent exempted from the class work assigned for the days in which the excused absences were incurred.
- 6. Instructors will keep a record of class attendance and will report absences:

- a. When two are incurred on successive meetings of class;
 - b. When the number of absences under operation of Section 3 warrants dismissal from the course;
 - c. At the end of each nine weeks' period and at the end of a semester or other session.
7. Students who are absent from the final examinations or other closing exercises of the classes in which they are enrolled shall be marked F, X, or I. The grade of F is indicated where the previous record is such that the student cannot pass the course no matter what grade he may make on the final examination. The grade of X or I is indicated if the student's previous record shows that he may pass the course by making a certain passing mark in the final examination. The grade of I may be given instead of X when the absence from examination is excused.
 8. An absence incurred on the day preceding or on the day following a holiday shall be counted as two absences.
 9. Absences due to late registration are treated on the same basis as absences incurred after registration.

SCHOLARSHIP REGULATIONS

The scholarship standing of students is checked at the middle and end of each semester. At such times students who are deficient in scholarship are placed on probation or suspended in accordance with the following regulations. A student placed on probation at any time will remain on probation until the next final examination period.

- I. A student is placed on probation:
 1. If he makes grades of X or F in one-half of the hours carried;
 2. If he fails to score three-fourths as many grade-points (see page 49) as hours carried;

3. If the grade-points accumulated at the end of a semester total less than the hours accumulated towards graduation.
- II. A student on probation is recommended for suspension at the end of a semester:
1. If the points earned for the semester total less than one-half the hours carried;
 2. If he makes grades of X or F in more than one-half of the hours carried;
 3. If the points accumulated at the end of a semester total less than three-fourths the hours accumulated towards graduation.
- III. A student who is suspended for poor scholarship; or who, after having been placed on probation at the end of the semester, fails to re-register for the following semester; or who withdraws from the University while on probation, shall be considered as on probation upon his return to the University, and the scholarship rules (as given in II above) shall apply as though he had not been away.
- IV. Physical education courses shall be treated on the same basis as other subjects.
- V. A dean may require a student who is on probation at the time of registration to enroll for the minimum number of hours at the beginning of the following semester, and he may at any time require a student on probation to drop as many hours as seem to be in excess of the student's ability.

HONORABLE DISMISSAL

Honorable dismissal signifies that, so far as conduct and scholarship are concerned, the person thus dismissed may re-register in this University at any time.

A student leaving the University after fulfilling all his obligations to the University is entitled to receive upon request, from the Registrar, together with a statement of honorable dismissal, one transcript of his academic record. Additional transcripts are furnished at the rate of one dollar a copy.

UNIVERSITY ASSEMBLIES

Regular assemblies are held on the first or second Thursday or Friday of every month according to a schedule approximately as follows:

Friday, September 27	11 A. M.
Friday, October 25	10 A. M.
Friday, November 22	9 A. M.
Thursday, December 19	11 A. M.
Thursday, January 23	10 A. M.
Thursday, February 27	9 A. M.
Friday, March 27	11 A. M.
Friday, April 24	10 A. M.
Friday, May 22	9 A. M.

Special assemblies may also be called by the President of the University or by the Student Council with the concurrence of the administration. Attendance is required at regular assemblies. It is necessary for a student to obtain from the Dean of Men or the Dean of Women an excuse for any absence; this excuse must be obtained within two weeks after the absence is incurred. Attendance at special assemblies is not required unless it is so announced at the time. The penalty for unexcused absences from assembly is the deduction of one semester hour from the total earned. Lectures and addresses are delivered on various topics of interest by members of the faculty and by visitors to the University and to the city; musical and dramatic recitals, and contests in oratory and debating are held. A fair share of the time set apart for assemblies is given to the Associated Students for the transaction of their business.

GRADUATION REQUIREMENTS

APPLICATION FOR GRADUATION

At the end of the sophomore year, all students are required to file, in the Registrar's office, an application for graduation. Blank forms may be secured from the Registrar's office. A new student above sophomore rank must file an application for graduation at the time of registration.

QUANTITATIVE REQUIREMENTS

The average time for the completion of a degree course is four years following graduation from an accredited high school.

The academic requirements for a degree in any college are based upon both quantity and quality of the work completed by the candidate. The quantitative requirement is 124 semester hours, plus four semester hours in physical education courses, in the Colleges of Arts and Sciences and Education; and 136 to 141 semester hours, plus four semester hours in physical education courses, in the College of Engineering, based on an average quality of work. These requirements include credit hours earned in the prescribed courses in Health 1 or 2 and Philosophy 1.

QUALITATIVE REQUIREMENTS

The number of credit hours required for all diplomas and degrees conferred by the University is based upon average work, which is designated by C. In order to graduate from any college in the University, a student must earn a total number of grade-points in the hours offered for graduation equal to the total number of hours. (See page 49.) For every fifteen semester hours of A work, the amount required for graduation is diminished by one semester hour. For every thirty semester hours of B work, the amount required for graduation is diminished by one semester hour.

For every fifteen semester hours of D work, the amount required for graduation is increased by one semester hour. The maximum dividends allowed on account of A's and B's are four hours, so that a minimum of 120 hours, plus four hours in physical education courses is required for a degree in the Colleges of Arts and Sciences and Education. Dividends and penalties are calculated only on work done in residence at the University of New Mexico. No dividends are given in the College of Engineering.

SENIOR RESIDENCE REQUIREMENTS

The following are the minimum senior residence requirements for students in the undergraduate colleges:

1. Students who have done less than sixty semester hours in residence previous to the senior year shall earn thirty hours in residence in the senior year.
2. Students who have done sixty hours, but less than ninety hours in residence previous to their senior year, shall earn twenty-four hours in residence in their senior year.
3. Students who have done ninety or more semester hours in residence previous to the senior year shall earn eighteen hours in residence in the senior year.

In no case is the number of hours specified to be earned in the senior year to be interpreted as the last hours.

Students may fulfill part or the whole of this residence requirement by attendance upon a sufficient number of summer sessions.

Work done by students of the University of New Mexico in courses in archaeology and anthropology given in the School of American Research at Santa Fe by members of the faculty of the Department of Archaeology and Anthropology of the University shall be regularly accredited as University residence work on the same basis and subject to the same regulations, as work done on the campus at

Albuquerque, with the single reservation that, regardless of the amount of credit earned, seniors in the undergraduate colleges must earn one-half of their required senior hours on the campus at Albuquerque.

MINIMUM RESIDENCE REQUIREMENTS IN THE MAJOR AND MINOR

Six hours in the major study and three hours in the minor study must be completed in residence.

EXTENSION WORK

The total number of hours that may be earned towards graduation by extension or correspondence work is thirty.

SPECIFIC COURSE REQUIREMENTS

PHILOSOPHY

Philosophy 1 (Orientation) or an authorized substitute must be taken by all students in all undergraduate colleges of the University in their freshman year, except by those students entering with as many as ten hours of college work.

HEALTH

Health 1 or Health 2 must be taken by all students in all undergraduate colleges of the University, in their freshman year. Students transferring from other institutions to the University of New Mexico with sixty-one or more semester hours advanced standing are excused from this requirement.

PHYSICAL EDUCATION

Physical Education 1, 2, 51, 52 (for men), or 5, 6, 55, 56 (for women) must be taken by all students in all colleges of the University in their freshman and sophomore years or in the first two years of residence in the case of students entering with advanced standing who do not have credit in similar courses. Each course earns one semester hour. A

total of four semester hours must be earned for any baccalaureate degree.

Freshman and sophomore students who enroll for band and make grades of C or better may be exempted from physical education for this work, semester for semester. No credit for band will be allowed in the sophomore year if physical education exemption is granted for this work.

COMMENCEMENT

Students who complete requirements for degrees at the close of the first semester or second semester will receive their diplomas in June. Those who finish after the summer session or field session will receive diplomas the following June. Students must participate in Commencement at the time of receiving diplomas, unless excused by the President.

GRADUATION WITH HONORS

SENIOR SCHOLASTIC HONORS

All senior students having a scholarship index which will rank them in the upper five per cent of the graduating class of the University will be graduated "With Distinction." Ranking will be based upon all work taken at the University of New Mexico. Transferred students must present a minimum of forty-five credit hours earned at this institution to obtain these honors.

SENIOR RESEARCH HONORS

Senior students presenting the best bachelors' theses, demonstrating ability to do independent work of a high order will be awarded "Research Honors." Intention to do such work must be announced by the student before the middle of his junior year. Awards will be limited to five per cent of the senior class of each college, these awards to be recommended by a committee appointed by the dean of the college and to be approved by the Administrative Committee.

SPECIAL HONORS FOR CREATIVE WORK

Special honors shall be awarded students who have demonstrated exceptional ability in doing creative work as undergraduates, these honors to be recommended by a committee appointed by the dean of the college and to be approved by the Administrative Committee.

EXPENSES

In accordance with the desire of the people of the State, it is the intention of the University to make its tuition and fees as moderate as possible. All fees (including tuition, laboratory, art, music, and other special fees) are due and payable upon registration. It is, therefore, necessary that the student have sufficient money to defray all immediate expenses, which will include tuition and fees for one semester, board and room for at least one month if the student expects to live in a University dormitory, textbooks, etc. Subsequent board and room payments are collected in advance on the first of each month.

Upon his first enrollment, each student in the University of New Mexico is charged the matriculation fee, which is paid only once. This fee is required under the Laws of New Mexico of 1923, and those who were registered prior to that year and who have not since that time paid the matriculation fee are subject to this charge.

Students who register in courses earning more than six semester hours of credit will pay the following fees:

Matriculation fee	\$ 5.00
Tuition, residents of New Mexico, per semester	15.00
Tuition, non-residents, per semester	50.00
Student activities fee (undergraduates), per semester	8.00
Health fee, per semester	1.00
Guarantee deposit, per year	10.00
Laboratory, art, music, syllabus fees, where called for in the student's program of courses. (See pages 66-69.)	

Students who register in courses earning more than three but not more than six semester hours of credit pay the following fees.

Matriculation fee	\$ 5.00
Tuition, residents of New Mexico, per semester	10.00
Tuition, non-residents, per semester	25.00
Guarantee deposit, per year	5.00
Laboratory, art, music, syllabus fees. (See pages 66-69.)	

Students who register in courses earning three semester hours of credit or less pay the following fees:

Matriculation fee	\$ 5.00
Tuition, residents of New Mexico, per semester	5.00
Tuition, non-residents, per semester	10.00
Guarantee deposit, per year	5.00
Laboratory, art, music, syllabus fees. (See pages 66-69.)	

RESIDENT AND NON-RESIDENT TUITION

The following resolution was adopted by the Regents of the University on November 5, 1927:

"BE IT RESOLVED, by the Board of Regents, that

(1) Non-resident fees shall be collected from all minors whose parents or legal guardians reside outside of New Mexico, this regardless of the class status of the student; and that

(2) Resident fees shall be collected from all others registering inasmuch as the Attorney General of New Mexico holds that the parents or legal guardians of a minor student are residents of this State, provided they are in the State at the time of the student's registration, and also provided that they are in the State with the evident intention of remaining."

Upon request of the University authorities, students must furnish proof of their residence in the State of New Mexico. If a person other than the parent is named as guardian, the student will be required to furnish evidence of court appointment.

HEALTH FEE

The \$1.00 health fee is required of every student, both graduate and undergraduate, who is registered in courses earning more than six semester hours of credit. Payment of the fee entitles the student to a thorough physical examination, and to consultation throughout the semester with the University physician at his office in the University gymnasium.

STUDENT ACTIVITIES FEE

The student body, in its organization, The Associated Students, voluntarily voted to assess and collect from each undergraduate the student activities fee of \$8.00 per semester. At registration the University collects this fee as an accommodation to the Associated Students. Those enrolled for not more than six semester hours are not required to pay this fee, since they are not members of the organization. The fee is distributed as follows:

Athletic Association	\$4.00
Mirage (year book)	1.90
Student Council	.95
Debate Council	.30
Lobo (weekly newspaper)	.35
Dramatic Club	.25
Student Union (Reserve Fund)	.25

Payment of the fee entitles the student to participate in all undergraduate activities; it provides a ticket admitting him to all athletic contests, dramatic club plays, student body dances, etc.; it permits him to vote in the student body elections; it gives him a subscription to the *Lobo*; and when paid both semesters, gives him a copy of the *Mirage*. It is understood that the organizations which receive a share of this fee will comply faithfully with all regulations and that their records will be audited periodically.

GUARANTEE DEPOSIT

The guarantee deposit is required to cover possible breakage or damage to University property, and is returned, minus any necessary deductions after the close of the semester in which the student is registered.

WITHDRAWALS AND REFUNDS

All academic fees except the matriculation fee will be refunded to students voluntarily withdrawing from the University within fifteen days after registration dates for the

semester. Students voluntarily withdrawing later than the fifteenth day, but before the end of the ninth week, will be entitled to a refund of one-half the tuition. Students withdrawing after the ninth week, and students withdrawing at any time under discipline or because of academic deficiencies will be entitled to a refund of the guarantee deposit only.

MISCELLANEOUS CHARGES

In addition to the general enrollment fees shown above, charges are made for special services rendered or for failure to comply with regulations, as follows:

Examination to raise X to D	\$ 2.00
Examination for advanced standing, per credit hour	2.50
Change of program after the fifteenth day of the semester, except on written demand of the instructor	1.00
Penalty for dishonored check or draft	1.00
Towel fee, per semester	1.00
Piano rental, per semester	5.00
Diploma fee, Bachelor's degree	5.00
Diploma fee, Master's degree	10.00
Fee for binding thesis	1.50

LATE REGISTRATION FEE

A late registration fee is charged to students who do not complete registration on days set aside for that purpose.

PAYMENT BY CHECK

All checks, drafts, or money orders given in payment of registration fees or board and room charges should be made payable to the University of New Mexico. If a check for any reason is not honored by the bank when presented for payment and is returned to the University as uncollectable, the student who gave the check is required to pay a fine of \$1.00. The University is not in a position to cash checks for students except when they are given in payment of fees. Each student should therefore establish contact with one of the local banks immediately upon arriving in Albuquerque.

LABORATORY, SYLLABUS, AND OTHER SPECIAL FEES

Archaeology and Anthropology

25	Indian Art	\$ 4.00
38	Museum Technique	1.00
40	Museum Technique	1.00
107-108	Physical Anthropology, each semester	2.00
	For Field Session fees see special bulletin.	
138	Museum Technique	1.00

Art

15- 16	Art Structure	each semester	6.00
25	Indian Art		4.00
27- 28	Architectural Design	each semester	6.00
55- 56	Drawing	each semester	6.00
57- 58	Architectural Design	each semester	6.00
63- 64	Water Color Painting	each semester	6.00
66	Block Printing		4.00
71- 72	Gen. Commercial Art	each semester	6.00
83	Lettering		2.00
85- 86	Sculpture	each semester	6.00
115-116	Oil Painting	each semester	6.00
125	Indian Art		4.00
127-128	Architectural Design	each semester	2.00 per cr. hr.
131-132	Decorative Design	each semester	6.00
133-134	Applied Design	each semester	6.00
155-156	Drawing	each semester	6.00
161-162	Painting	each semester	6.00
163-164	Water Color Painting	each semester	6.00
167	Costume Design		6.00
168	Interior Decoration		6.00
171-172	Advertising Problems	each semester	2.00 per cr. hr.
185-186	Sculpture	each semester	6.00
191	Seminar		2.00 per cr. hr.
192	Problems		2.00 per cr. hr.
	Field Session—School of Painting at Taos		35.00 tuition
	Field Session—Indian Art Course at Santa Fe ..		15.00 tuition

Biology

1- 2	General Biology	each semester	1.00
11	General Zoology		6.00
12	General Botany		6.00
53	General Physiology		6.00
56	General Embryology		6.00

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58	General Entomology	2.00
63	Flora of New Mexico	1.00
81	Medical Zoology	6.00
93	General Bacteriology	6.00
114	Animal Histology	6.00
121	Comparative Vertebrate Anatomy	6.00
132	Advanced Bacteriology	6.00
134	Plant Physiology	6.00
141	Histological Technique	fee arranged
171	Physiographic Ecology	2.00
174	Plant Anatomy	6.00
184	Plant Pathology	6.00
190	Human Anatomy and Kinesiology	8.00
199 a,b	Problems	fee arranged
251	} Problems, Research, and Thesis	fees arranged
261		
271		
281		
300		

Chemistry

1a-2a	Inorganic Chemistry Lab. each semester	3.00
4 -5	Survey of Chemistry	1.00
51a	Qualitative Laboratory	5.00
52	Gravimetric Quantitative Analysis	8.00
55	Quantitative Analysis for Pre-Medical Students	2.00 per cr. hr.
68	Introduction to Physiological Chemistry	5.00
101	Volumetric Quantitative Analysis	6.00
102-103	Organic Chemistry	5.00
104	Organic Synthesis	5.00
105	Quantitative Biochemical Methods	6.00
110a	Physical Chemistry Lab.	2.00
152	Advanced Quantitative Analysis	2.00 per cr. hr.
155	Introduction to Toxicology	4.00

Economics

150	Industrial Management	1.00
160	Economic Theory	1.00

Engineering, General

1- 2	Engineering Drawing	1.00
51	Descriptive Geometry	1.00
55- 56	Elementary Surveying	3.00

Engineering, Civil

103	Advanced Surveying -----	3.00
104	Railroad Engineering -----	3.00
112	Strength of Materials Laboratory ----	3.00
115	Masonry -----	3.00
118	Highway Engineering -----	3.00
157	Field Surveying (Field Camp at Jemez):	
	Tuition -----	7.50
	Board and tentage, incl. transportation -----	28.00
173.	Hydraulics Laboratory -----	3.00

Engineering, Electrical

105-106	Principles and Practice of E. E. -----each semester	3.00
111	Direct Current Machinery Laboratory	6.00
112	Alternating Current Laboratory -----	6.00
155-156	Alternating Current Machinery Laboratory -----each semester	6.00

Engineering, Mechanical

103	Heat Power Laboratory -----	3.00
107	Mechanical Engineering Laboratory ---	3.00
151-152	Mechanical Engineering Laboratory -----each semester	3.00

English

59- 60	Interpretative Reading each semester--	5.00
85- 86	Journalism -----each semester	2.00

Geology

5	Physical Geology Laboratory -----	1.00
6	Historical Geology Laboratory -----	1.00
51	Mineralogy -----	1.00
52	Determinative Mineralogy -----	2.00
107	Petrology -----	1.00
111-112	Paleontology -----each semester	1.00

Government and Citizenship

1- 2	Introductory Course -----each semester	.50
51- 52	American Government and Politics -----each semester	.50
61- 62	Nature and Sources of Law -----each semester	.50
71- 72	European Governments -----each semester	.50
75	Political Parties -----	.50

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History

21- 22	Medieval and Modern History -----	each semester	.50
51- 52	History of the United States -----	each semester	.50
61	History of New Mexico -----		.50

Home Economics

11	Clothing Selection -----		1.00
12	Clothing Construction -----		1.00
14	Textiles -----		2.00
53- 54	Food Selection and Preparation -----	each semester	5.00
61- 62	Dressmaking -----	each semester	1.00
107	Advanced Foods -----		5.00
182	Meal Planning and Serving -----		5.00

Music

	Piano, Pipe Organ, Violin, Voice, Woodwind per lesson ----- (½ hr.)		1.25
	18 lessons per semester required for 2 credit hours -----		22.50
	Pipe Organ Rental -----	per practice hr.	.25
	Piano Rental -----	per semester	5.00

Physical Education

	Towel fee -----	each semester	1.00
	Horseback Riding -----	each semester	10.00
	Fencing -----	each semester	3.00

Physics

1- 2	General Physics -----	each semester	3.00
51- 52	Engineering Physics -----	each semester	4.00
101	Heat -----		3.00
102	Light and Sound -----		3.00
105-106	Laboratory Technique -----	each semester	5.00
111-112	Electricity and Mag- netism -----	per lab. period per week	3.00

Psychology

51	General Psychology -----		1.00
52	Fields of Psychology -----		1.00
121-122	Experimental Psychology -----	each semester	2.00
181	Educational Tests and Statistics -----		1.00
185	Mental Measurements -----		1.00

DINING HALL AND DORMITORIES

For students not living at home, meals and living quarters are provided in the University dining hall and dormitories. Rooms in private homes are approved and listed by the Dean of Men and are available for men students. Fraternity houses are approved as places of residence for undergraduate men who are members of these organizations.

Undergraduate women who do not reside in Albuquerque are required to live in the University residence houses, which include the University residential halls and sorority houses. Exceptions to this regulation include:

1. The women students who are working for board and room in approved homes;
2. Women students who, upon special request from their parents, are permitted to live with immediate relatives (These special requests from parents and guardians, stating relationship to family where the student will reside, should be sent to the Dean of Women prior to registration. The young women will be given counsel whenever they seek it; however, the University cannot offer the same kind of supervision that it gives the students in the resident houses on the campus.)
3. Special adult students;
4. Regularly enrolled students who are over twenty-one years of age but are registered for six hours or less.

Graduate women are urged to live on the campus, but if they desire to room in private homes, they are requested to select one of the approved houses listed by the Dean of Women. Women students are not permitted to room in a house where men are rooming. No woman student may change her place of residence without the consent of the Dean of Women.

The University authorities reserve the right to determine where a student may reside.

The women's residential halls provide single rooms for one student and suites (two bedrooms and study room) for

two. All dormitory residents furnish pillows, pillow cases, sheets, blankets, towels, curtains, and small rugs. It is also necessary for the individuals to pay for their laundry. Living rooms are provided in each of the halls.

The student who wishes to reserve a room should send his application to the Registrar as early as possible, stating whether a single or double room is desired, and enclosing a remittance of five dollars. Since dormitory accommodations are limited, the first applicants are given the preference of rooms available. (See form inside back cover.)

A house mother or proctor, with full supervisory power, is in charge of each of the women's and men's dormitories.

All students occupying rooms in the dormitories are required to take their meals at the University dining hall.

It is the intention of the University to supply meals and lodging at cost. The following rates are subject to change whenever it may be necessary to meet costs of dining hall and residential hall operation. Board and room charges are payable in advance at the beginning of each calendar month.

Room reservation fee (held as deposit during occupancy) -----	\$ 5.00
Board and Room, per month -----	27.50
Board only, per month -----	22.50
Single meals:	
Breakfast -----	.25
Lunch -----	.30
Dinner -----	.35
Dinner (noon) on Sundays and holidays -----	.50
Board and Room for less than month, per day -----	1.00

Rates for single meals are quoted for the convenience of regular boarders who wish to entertain guests. Persons connected with the University and not living in the dormitories may procure meals at the dining hall at the regular rates shown.

The dormitories and dining hall will be open for freshmen on Wednesday, September 11, 1935, at 1 p. m. The

dining hall will open for freshmen with the breakfast meal on Thursday, September 12. The dormitories will be open for upperclassmen on Sunday, September 15, 1935, at 1 p. m. The dining hall will open for upperclassmen with the breakfast meal on Monday, September 16. Upon arrival at the University, the student should call at the business office as early as possible and make whatever arrangements and payments are necessary for taking up his residence in the dormitory.

DINING HALL AND DORMITORY REFUNDS

Refunds will be made on account of absence from the dining hall for seven or more consecutive days, if the student is excused in writing by the Dean of Men or the Dean of Women. No deductions are made from room rent for such absences.

Refunds and deductions from the full amount of board are made on the following basis:

Seventy-five per cent of the total pro-rated cost for days missed is refunded. The other twenty-five per cent is retained by the University to cover overhead costs.

GUESTS OF DORMITORY RESIDENTS

Guests may be entertained over night in the dormitories with the consent of the proctors. If the guest stays more than three nights, the dormitory resident will be charged fifty cents per night for the entire stay of the guest. When a guest is to have meals at the dining hall, the clerk should be notified and the account of the dormitory resident will be charged for the guest's meals.

STUDENT EMPLOYMENT AND LOAN FUNDS

STUDENT EMPLOYMENT

All students desiring part-time employment will be registered at the employment office. Their registration will show the kind of work they desire, their experience and qualifications for that work, the hours during which they will be available without interference with their classroom schedules, etc. No fee is charged for this service.

The student who finds it necessary to engage in outside work should not attempt ordinarily to carry a full schedule of studies. The usual schedule is sixteen to eighteen hours each week, but students doing outside work should be prepared to limit their class schedules. Each recitation hour requires at least two study hours for preparation. This fact should be considered by students in the allotment of their time. The faculty also may limit the student's schedule in the interests of health and academic efficiency.

The following principles are the basis of selection of candidates for employment through the University Employment Bureau:

1. The establishment of the actual need of the student
2. Seniority as to class standing, except for a small group of freshmen of special promise
3. Scholarship
4. Special skills
5. Date of application
6. Residence in New Mexico
7. Re-employment to be based first of all on satisfactory service

Students are employed on the campus, wherever advisable, as janitors, waiters in the dining hall, helpers in the kitchen, etc. The bulk of employment, however, is found in the homes and business houses of Albuquerque.

Aid from the Federal Emergency Relief Administration has enabled the University to expand its employment program substantially upon the campus. Students with typing and other office ability and experience are in special demand in this field, but the basis of selection remains here the same as stated above.

At the present time the University advises against students entering without definite prospect of being able to finance themselves for at least one semester.

LOAN FUNDS

UNIVERSITY LOAN FUND

The University administers under the direction of the Student Loan Committee its own Student and Alumni Loan Fund and co-operates in the administration of several others. The first, made up of gifts of former years, is lent to worthy students at the University, and has assisted many to complete their education.

General rules applying to these loans are

1. The student must have been in residence at the University a year or more.
2. He must be receiving grades of C or better in subjects being carried, and preference will be given to worthy students with the higher ratings in scholarship.
3. Evidence of proper qualifications as to character must be presented.
4. Students receiving loans will be required to give notes with endorsers as prescribed by the University Business Office.
5. Not more than \$50.00 will be made available to the student at one time, and extension or increase of

loan will be conditioned upon the effort of the student to meet his existing obligation.

(NOTE: The maximum amounts available from this fund respectively for sophomores, juniors, and seniors are \$50.00, \$75.00, and \$100.00, with the provision that the succeeding amount shall be lent each year upon repayment by the student of at least half the sum previously borrowed.)

Other loan funds available to students at the University are

Student Loan Fund of the Daughters of the American Revolution;

The American Association of University Women Loan Fund;

Loan Fund of the Faculty Women's Club of the University of New Mexico;

Revolving Loan Fund of the Ancient, Free, and Accepted Masons of New Mexico;

Educational Loan Fund of the Grand Commandery of Knights Templar of New Mexico;

The McGaffey Memorial Loan Fund of the Albuquerque Rotary Club;

The Woman's Club Loan Fund.

AWARDS, SCHOLARSHIPS, AND FELLOWSHIPS

Names of students who have been granted awards are announced by the President after recommendations have been made to him by the Committee on Honors and Awards or such other authorities as may be designated in special cases. Many of these awards are given public announcement at the time they are made during the academic year, and all are announced as a feature of the Commencement exercise. A description of the awards in the chronological order of their establishment follows:

THE C. T. FRENCH MEDAL FOR SCHOLARSHIP

Mr. Chester T. French of Albuquerque, in the spring of 1921, established a permanent fund of \$500.00, the interest of which is to be used annually as a prize to stimulate scholarship, called the C. T. French Medal for Scholarship. It is to be awarded to a graduating senior student of good character who has obtained during his last two years of continuous residence the highest general average for scholarship in a regular course of not less than fourteen hours leading to a bachelor's degree in the College of Arts and Sciences.

THE KATHERINE MATHER SIMMS PRIZE IN ENGLISH

In 1921, Mr. Albert G. Simms of Albuquerque presented to the Regents of the University, in memory of his deceased wife, Katherine Mather Simms, the sum of \$250.00 in trust, the interest from which is awarded in cash each year to a regularly enrolled student, not below junior rank, in actual attendance at the University of New Mexico, who shall have excelled in English composition. The selection is made by the professors of English and the Dean of the College of Arts and Sciences. The prize is announced early in May.

THE GEORGE E. BREECE PRIZE FOR EXCELLENCE IN ENGINEERING

Mr. George E. Breece of Albuquerque, in the winter of 1921, established this prize-endowment by a gift of \$600.00, the proceeds of which are to be awarded to a senior student in Engineering in residence and taking a full course. This award is made upon the basis of excellence of scholastic record, character, and general ability during the last two consecutive years of residence in the University.

THE IVES MEMORIAL SCHOLARSHIPS

The Ives Memorial Scholarships were created by the will of the late Byron M. Ives of Albuquerque, in memory of Julia Louise Ives and Helen Andre Ives. The income from this fund is used to maintain three scholarships for women students, of \$200.00 each. The scholarships are awarded annually by the President of the University. Candidates must be residents of New Mexico, preferably living in Albuquerque, in good health, of good moral character, of high scholastic standing, and must intend to teach. Candidates for these scholarships should make application to the President of the University before July 1. Final selection for the following academic year will be made during the month of July.

THE MARIAN COONS KINDNESS AWARD

In May, 1925, Mr. J. M. Coons of Albuquerque gave to the Regents of the University \$600.00 in Liberty bonds for the establishment of the Marian Coons Kindness Award, in memory of his little daughter, Marian. In 1931 this amount was increased by a further gift of \$150.00. The interest from this fund is given each year to the regularly enrolled senior student in the Department of Home Economics who shall be voted the most kind by her classmates and teachers in that department. The prize is announced in March.

THE CHI OMEGA PRIZE IN ECONOMICS

The Chi Omega sorority in 1925 established an annual prize of \$15.00 to be awarded to the regularly enrolled woman student (Chi Omega excepted) who does the best work in economics during the college year. Selection is made on the basis of scholarship and general knowledge of the subject. This award is announced each April.

THE ALFRED GRUNSFELD MEMORIAL
SCHOLARSHIPS

In 1927 Mrs. Miriam N. Grunsfeld gave the sum of \$5,000.00 to the University to found and establish a perpetual trust, to be known as the Alfred Grunsfeld Memorial Foundation, in memory of her husband, the late Colonel Alfred Grunsfeld. The income from these funds is used in the payment of two scholarships for men which shall be known as the Alfred Grunsfeld Memorial Scholarships.

These scholarships are announced each May according to the terms stated below :

1. To be eligible for scholarships, students must be residents of the State of New Mexico. It is also required that, during the academic year immediately preceding the award, they shall have been in actual attendance at the University and that they shall be registered as full-time students, that (including the two Miriam N. Grunsfeld Scholarships for women mentioned below) three of the recipients shall have been enrolled in the Department of History or Government and Citizenship (the fourth may be enrolled in any department of the University), and that they shall not be above the rank of junior.
2. In selecting the students to receive the awards, consideration is given to the general scholarship of the students and to their financial requirements.

When the students who have received the awards shall register at the beginning of the next regular academic year,

they shall be entitled to receive from the Business Manager of the University of New Mexico as much of the unexpended income from the trust as shall be available, not to exceed \$100.00, and, at the beginning of the second semester, a like sum shall be paid. This money shall be used by the students for their expenses during the academic year for which the scholarships are awarded. If the students designated shall attend the University for only the first semester and fail for any reason to continue for the second semester, then the remaining half of the scholarship fund for that academic year may be awarded to an alternate to be selected in the same manner as hereinabove provided.

THE PHILO S. BENNETT PRIZE

In 1905, under the provisions of the will of the late Philo S. Bennett of Bridgeport, Connecticut, the University received a fund to be used in assisting women during the second semester of their freshman year. This fund, through investment, has grown to \$1,200.00. The income from the fund has been awarded annually each January since 1928 to the woman of the freshman class who is most worthy, who has resided in New Mexico for at least the preceding four years, and who will continue as a resident student in the University.

THE HARRY L. DOUGHERTY MEMORIAL PRIZE IN ENGINEERING

As a memorial to the late Harry L. Dougherty, assistant professor of civil engineering, a sum of money was given the University in 1927 by his friends. The income from this gift is awarded annually in cash to that underclassman in the College of Engineering who has the highest general scholastic standing. By custom, this prize is given to a sophomore, and is announced in February.

THE ALPHA CHI OMEGA CERTIFICATE IN MUSIC

The Alpha Chi Omega sorority, in 1934, awarded a certificate to the student registered in the Department of Music who made the greatest improvement during the regular academic year. The faculty of the Department of Music selects the student to receive the award.

THE SIGMA TAU MEDAL FOR SCHOLARSHIP

The Sigma Tau Engineering Society medal is awarded each year to the regularly enrolled freshman engineering student who has earned at least thirty-four hours toward graduation, and whose weighted average grade for the year is highest. This medal is announced in September.

THE OREN W. STRONG AWARD

Since the autumn of 1929, Mr. Oren W. Strong has made an annual gift of \$50.00 to be awarded to a student in the University who has maintained an academic average of at least eighty-five and who is under the necessity of earning his living expenses. The student must be a resident of the State. If two or more students with approximately the same scholastic average are being considered, preference shall be given to the one earning the larger share of his necessary expenses. The name of the student winning this award is announced in April, and the money is paid to him upon his registration the following autumn.

THE MIRIAM N. GRUNSFELD SCHOLARSHIPS

In 1929 Mrs. Miriam N. Grunsfeld gave \$5,000.00 to establish a trust fund, the income from which is used to pay two scholarships for women, to be called the Miriam N. Grunsfeld Scholarships and to be awarded under the same conditions as those applying to the Alfred Grunsfeld Memorial Scholarships, as stated above.

THE SAN JOSE SCHOLARSHIPS

Through the funds granted to the San Jose experiment by the General Education Board and Senator Bronson M. Cutting, and with the co-operation of Bernalillo County, two types of scholarships are available:

TRAINING SCHOOL SCHOLARSHIPS

Twenty-four scholarships are available each year to teachers who are actually engaged in teaching native Spanish-speaking school children of the elementary grades. Each scholarship guarantees transportation and board and room for three months to be spent at the training school. Selection is made by the director of the school upon the recommendations of county superintendents.

SAN JOSE SCHOLARSHIPS OF THE COLLEGE OF EDUCATION

Five scholarships are available, each with a stipend of \$400.00. The recipient must

- (1) Be a Spanish-speaking native;
- (2) Have had at least two years of successful teaching experience;
- (3) Have had two or more years' training beyond high school;
- (4) Expect to make teaching in the rural schools his or her life work.

The scholarships are awarded for a term of one year by a committee of the faculty of the College of Education. They may be re-awarded to the same person.

THE CHARLES FLORUS COAN AWARD

In 1930 a sum of money was given to the University by friends of the late Charles Florus Coan, Ph.D., who at the time of his death was professor of history and political science. The income from this gift is awarded annually for excellence in scholarship to a worthy student whose major field is history. The decision of this award rests with the faculty of the Department of History and is announced in March.

THE ROSE RUDIN ROOSA MEMORIAL AWARD

Mr. Howard Roosa of Albuquerque, wishing to perpetuate the influence of his late wife, Rose Rudin Roosa, in the direction of stimulating interest in good government and citizenship, presented to the Regents of the University in 1932 the sum of \$1,000.00. The income from this fund is to be used annually as a prize to the freshman student in the field of government and citizenship who, in the opinion of his professors, has shown exceptional ability, as indicated by scholarship and interest in the field. This prize is announced in April.

THE NEW MEXICO SECTION OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS AWARD

A certificate of merit with entrance dues for junior membership in the American Society of Civil Engineers, together with a membership badge, is awarded to a graduating student in Civil Engineering on the basis of excellency in scholarship, membership in the student section of the engineering society, activity in student engineering organizations, and promise as a successful engineer, in the opinion of his professors.

PI GAMMA MU PRIZE

Pi Gamma Mu in 1932-1933 established an annual prize of \$25.00 for the best research paper in the social sciences, written by an undergraduate student in residence. The award is judged by a committee of Pi Gamma Mu.

THE C. M. T. C. SCHOLARSHIP

The Regents of the University of New Mexico in 1931 established a \$100.00 scholarship for 1931-1932 to be awarded to the New Mexico C. M. T. C. student receiving the recommendation of the commanding officer of the camp. By action of the Regents in January, 1934, this scholarship was continued for the academic year 1934-1935.

THE INDIAN SCHOLARSHIP

In 1933 Prince Gaekwar, of India, made a gift of \$100 to the State to aid in higher education of the Southwestern Indians. This fund has been divided into four awards of \$25.00 each to be given to deserving students of Indian parentage who have attained at least sophomore rank with an average grade of C in all courses taken here. In choosing between two equally deserving students, preference will be given to the one having the higher scholastic average or the higher class ranking. The scholarship is announced in January.

THE PHI KAPPA PHI PRIZES

In 1933 the University of New Mexico chapter of the honor society of Phi Kappa Phi inaugurated two annual cash prizes of ten dollars each to be given to the man and woman who rank highest in general scholarship for their freshman year's work. These prizes are announced each fall in connection with the Phi Kappa Phi Freshman Honor Roll, which includes those students who constitute the upper ten per cent of their class in scholarship.

THE RICHARD W. THORNE ART MEDAL

This gold medal was given by Mr. Richard W. Thorne of Albuquerque in 1934 to the member of the Jonson Art class in figure drawing who submitted the three best figure drawings, in the opinion of the judges named by the donor.

THE AMERICAN ASSOCIATION OF UNIVERSITY WOMEN AWARD

In 1934 the Albuquerque Branch of the A. A. U. W. made an award of \$50.00, to be repeated in 1935 and 1936 and, perhaps, indefinitely, at the discretion of the chapter; it is to be used as a scholarship to promote advanced college training for women. This award is to be given to a woman, either a junior or senior at the time of selection, who will

enroll for a regular course the following years as a senior or graduate student. Selection will be made on the basis of general ability as indicated by the recommendations from professors to the committee, scholarship, and financial need. The announcement will be made late in May.

THE SCHOOL OF AMERICAN RESEARCH AWARDS

The School of American Research of the Archaeological Institute of America, affiliated with the University of New Mexico in research and instruction, authorized the announcement in 1934 of five scholarships, ranging from \$500.00 to \$250.00.

THE F. W. HODGE PRIZE IN ETHNO-HISTORY

Dr. F. W. Hodge, director of the Southwest Museum, has given a \$20.00 cash prize to be awarded to a registered student who, in 1934-1935, presents the best research paper in ethno-history, in the opinion of a named group of judges. The paper must be in the hands of the judges by May 1, 1935, and the name of the winner will be announced shortly thereafter.

THE ALTRUSA CLUB MUSIC PRIZE

The Altrusa Club of Albuquerque established in 1935 an annual prize of \$10.00 to be awarded to the student registered in the Department of Music who makes the greatest improvement during the regular academic year. The faculty of the Department of Music selects the student to receive the award.

GRADUATE FELLOWSHIPS

Four to six fellowships, each with a stipend of \$400.00, are available to graduate students. Holders of these fellowships are expected to perform certain limited services as teachers or laboratory assistants in the department to which they are assigned. This department must be the major de-

partment of graduate study, and each holder of a fellowship will be required to pursue advanced courses in the department during his term as a fellow.

Correspondence in regard to fellowships may be addressed to the Dean of the Graduate School or to the head of the department in which the candidate proposes to do his major work.

THE RHODES SCHOLARSHIPS

The trustees of the will of Cecil Rhodes have modified the manner of selection of Rhodes scholars to provide for a maximum of thirty-two scholars each year, each to receive an honorarium of \$2,000.00 per annum and to study for two or three years in Oxford University, England.

A committee of the faculty of the University nominates to the state committee for selection. This committee selects two men to represent the State of New Mexico before the district committee, which in turn selects not more than four scholars to represent the six states which compose a district. District VII is composed of California, Nevada, Utah, Arizona, Colorado, and New Mexico. The faculty committee makes its nominations early in the fall semester.

EXCHANGE WITH NATIONAL UNIVERSITY OF MEXICO

Under an arrangement entered into between the two universities, students may be exchanged between the University of New Mexico and the National University of Mexico upon mutually agreeable terms. The exchange became effective for the second semester of the academic year, 1934-35.

RECENT GIFTS AND DONATIONS

CARNEGIE CORPORATION GIFT

A notable gift in 1930 was \$25,000.00 from the Carnegie Corporation for the purchase of books, the funds to be spread over a period of five years. A total of 6,552 books has been bought to date with this fund, adding greatly to the effectiveness of the library.

THE SAN JOSE EXPERIMENT

Beginning with the academic year 1930-1931, the General Education Board pledged \$12,000.00 a year for five years for the purpose of experimental work with Spanish-American school children. This sum was supplemented by a gift of \$5,000.00 a year for three years from Senator Bronson M. Cutting. This money, together with the regular budget of the San Jose school provided by the Bernalillo County Board of Education, has made possible the establishment of the San Jose Training School.

RESEARCH IN HISPANIC STUDIES

The General Education Board made a gift of \$5,000.00 to the University for research in Hispanic Studies to aid in the interpretation of cultural traditions of this country and a mutual understanding of the factors common to the life of Mexico and the United States. The gift is being used in three fields: source studies in history of the Southwest, Spanish-American folklore, and archaeology and anthropology.

Senator Bronson M. Cutting gave \$400.00 for secretarial help and traveling expenses in collecting New Mexican folklore.

NATIONAL RESEARCH COUNCIL GIFTS

The National Research Council is sponsoring two research projects. The first of these is a study of the ethno-

biology of the Pueblo Indians of the Rio Grande Valley of the Southwestern United States, conducted by Dr. E. F. Castetter of the Biology Department. The first grant to this project was made in February, 1931, and the second in February, 1932, a total of \$900.00.

The second study is to be made by Dr. G. M. Peterson of the Psychology Department. It is a study of the effect of variations in the wave form of an electric stimulus on the response of a conscious animal. A grant of \$350.00 has been made for the purchase of equipment for this project.

THE NEILL B. FIELD COLLECTION

In accordance with the will of the late Neill B. Field, the University will receive his collection of old Spanish and Mexican silver, Spanish and Mexican santos and bultos, and certain pictures and furniture to be preserved as museum pieces on condition that the Regents of the University shall agree to make them the basis and foundation for a public museum.

THE CATRON LIBRARY LOAN

In 1930 the library received as a loan a part of the late Senator Catron's library comprising 1,323 books on religion and history in several languages, chiefly Spanish and Latin. An additional collection of approximately 5,000 volumes has been received recently from the Catron family. This collection is composed of standard works of reference and books in practically every field of knowledge.

THE FLORENCE MERRIAM BAILEY COLLECTION

A valuable and complete collection on birds was given to the library by Mrs. Florence Merriam Bailey. The collection consists of books, sets of magazines and pamphlets on the birds of the various states and of the world, including material on their anatomy, food and feeding, habits and behavior, migration, nests, plumage, songs, and other characteristics.

THE ASHENFELTER NEWSPAPERS

Mrs. Percy (Violetta Ashenfelter) Wilson of Silver City, New Mexico, Mrs. Leoline Ashenfelter Walton of Berkeley, California, and Mrs. Cory C. (Anne Ashenfelter) Brayton of Berkeley, California, the daughters of the late Singleton M. Ashenfelter and the late Nettie A. Ashenfelter, have presented the library with files of the *Daily Southwest*, *New Southwest Sentinel*, *Grant County Herald*, *The Borderer*, *National Standard* and *Salem County Advertiser*, *The Santa Fe Weekly Post*, and *The Weekly New Mexican*.

FEDERAL FUNDS

Grants made by the Federal Government through the Public Works Administration, the Civil Works Administration, and the Federal Emergency Relief Administration have made possible the completion of the Stadium Building and the erection of the Administration and Laboratory Building as well as general improvements to buildings and grounds.

The Federal Emergency Relief Administration, by a grant of \$18,000.00, gives employment in the various departments of the University to 129 students, thus enabling them to attend the University when attendance would not be possible otherwise.

A grant of \$17,650.00 for materials and service on research projects under the Federal Emergency Relief Administration was made, and work is progressing on two projects. One of these is a project under the supervision of Dr. E. L. Hewett, of the Department of Archaeology, involving the preparation of cultural and skeletal material.

The other is a study of the present status of native arts and crafts in New Mexico with a view to determining along what lines future development should proceed in order that these arts and crafts may best serve the economic and cultural life of a larger body of our citizens. This project is

under the direction of Arthur L. Campa of the Department of Modern Languages and Literature.

The Public Works Administration Art Project gave mural paintings for the library by Jonson and Nash; easel paintings by Ufer, Adams, Higgins, Jonson, and Nash; also lithographs by Adams, Kloss, and Nordfelt.

THE SOUTHWESTERN CONSERVATION LEAGUE

A gift of \$3,000.00 has been made to the Southwestern Conservation League for research. The University is co-operating in the expenditure of this fund.

UNIVERSITY ORGANIZATIONS AND ACTIVITIES

All organizations are under the general supervision of the University authorities, but the University is not responsible for debts incurred by any student organization. Students in charge of publications, debates, concerts, dramatic exhibitions, athletic performances, etc., are authorized to use the office and facilities of the faculty adviser of student activities. This office maintains a system of accounts and assists the student officers with the financial problems confronting their respective organizations. The records of the faculty adviser are audited twice annually by the faculty Student Accounts Committee.

STUDENT ORGANIZATIONS

The students of the University of New Mexico constitute a general student body organization which is called "The Associated Students of the University of New Mexico," and which controls the other organizations of general interest. Other typical student organizations are Associated Women Students, El Circulo Espanol, the Bi-lingual Club, Lettermen's Club, the student chapter of the American Association of Engineers, Pa-Yat-Ya-Mo, Cacique, Akiho, the Independent men, and Phrateres.

The honorary society of Maia, the members of which are selected from women of the junior class, and a similar society among the men known as Khatali, are both active upon the campus. In addition Pan-Hellenic and Interfraternity Council take prominent places in student activities.

Under direction of the Dramatic Club, plays are presented. Debates are held with other educational institutions, representatives being chosen through the medium of the Debate Council.

RELIGIOUS ACTIVITIES

All the religious denominations are represented in Albuquerque. The members of all churches gladly welcome University students to share in their religious and social life. The University's position in regard to religion is non-sectarian, but the students are encouraged to affiliate with the religious organizations with which their families are connected and to attend church services regularly.

Organizations of the Young Men's Christian Association and Young Women's Christian Association are active on the campus.

MILITARY TRAINING

Application has been made by the Regents to the United States government, in behalf of the University, for a unit of the Reserve Officers Training Corps, which unit would be similar to those now in existence in most of the other state universities. The establishment of this unit awaits appropriation by Congress. In the meantime there has been established on the campus a unit of the New Mexico National Guard, in which enlistment is voluntary. This unit belongs to the 120th Engineers. There is also in the city a troop of cavalry, a military band, and a medical unit. These organizations afford an opportunity for training which is necessary for those desiring to secure a commission in the Officers Reserve Corps. Members of these units are paid for their drills in accordance with their rank, receiving the same base pay as the corresponding rank in the regular army.

In addition to the training afforded by these units, the University, when possible, offers a basic course in military science. For reasons of economy the course is not offered at present.

STUDENT PUBLICATIONS

The Lobo, a weekly publication, and *The Mirage*, the annual, are managed entirely by students. The editor and the manager of each publication are elected by the Student Publications Board and work under the direction of this board.

STUDENT ATHLETICS

All intercollegiate athletic activities and intramural athletics for men are under the direction of the Athletic Council and are subject to the approval of the faculty and the President of the University. The Athletic Council is composed of four members of the faculty and three students who are elected at the regular student body elections. Athletics for women are under the supervision of the Department of Physical Education for Women.

Intercollegiate athletics are controlled by the Border Intercollegiate Athletic Conference, of which the University is a member.

Intramural athletics as promoted at the University of New Mexico are to assist in raising the physical level of the student body and the faculty, to offer wholesome recreation, and, incidentally, to offer preliminary training to those who hope eventually to enter varsity sports. The intramural program is designed to supplement the prescribed courses in physical education and to offer both students and members of the faculty an opportunity to engage in the branch of competitive athletics best suited to their physical needs and abilities.

HONOR FRATERNITIES

The national honor fraternity of Phi Kappa Phi granted a chapter to the University of New Mexico in May, 1916. Elections from the senior class only are made each year. A senior to be eligible for election must have been in residence for three semesters and must stand in the highest fifth in his class in scholarship.

The national engineering fraternity of Sigma Tau granted a chapter, known as Chi Chapter, to the University of New Mexico in December, 1928. Elections are made from the junior and senior classes each year. Any white male person duly registered in any of the engineering courses, who has become a junior by the college records, is eligible to active membership. The candidate must rank in

the upper third of his class in scholarship, and his selection is based upon scholarship, sociability, and practicality.

The New Mexico Alpha Chapter of Theta Alpha Phi, the national honorary dramatic fraternity, was installed in May, 1928. To be eligible for active membership the student must meet the eligibility rules of the University and must qualify under at least one of the following conditions: excellence in two major or four minor roles, successful play management of three plays, stage management of three plays, or property management of three plays.

Pi Gamma Mu is a national honorary fraternity of the social sciences. The Alpha Chapter of Pi Gamma Mu was organized in 1928 at the University of New Mexico. Seniors and juniors who have attained high rank in scholarship and who have distinguished themselves in social studies shall be chosen members.

A chapter of Delta Pi Sigma, national honorary mathematics fraternity, was established at the University of New Mexico, January 9, 1932. Requirements for election are enrollment in a mathematics course above integral calculus, an average of B or above for all mathematics courses studied, and credit in this institution for at least six hours of mathematics. The purpose of the fraternity is to promote interest in mathematics and high scholarship.

FRATERNITIES AND SORORITIES

There are five national social fraternities on the campus: Pi Kappa Alpha, Sigma Chi, Kappa Sigma, Kappa Alpha, and Sigma Phi Epsilon; and five national sororities: Kappa Kappa Gamma, Alpha Delta Pi, Alpha Chi Omega, Phi Mu, and Chi Omega.

THE ALUMNI ASSOCIATION

All graduates and former students of the University are eligible for membership in the Alumni Association, which was reorganized in 1927. The management of the Association is vested in an executive committee which in-

cludes the president, vice-president, secretary, and two other members. The executive committee and the officers are elected annually.

The New Mexico Alumnus, the official publication of the Alumni Association, is published every month except June and July. The Association has established the Alumni Student Loan Fund.

COLLEGE OF ARTS AND SCIENCES

PURPOSE AND FUNCTION

The College of Arts and Sciences attempts to supply the cultural training which should underlie the more specialized work of the graduate, professional, or vocational school. The materials for this training are provided by the interests and achievements of man as they appear in his cultural records, his social institutions, and his investigation of natural laws. With an understanding of these things as the end in view, work is offered in anthropology, archaeology, architecture, art, biology, chemistry, economics and business administration, English, French, geology, German, government and citizenship, Greek, history, home economics, journalism, Latin, library science, mathematics, music, philosophy, physics, physical education, psychology, sociology, and Spanish. Upon the satisfactory completion of a properly arranged program of study in these fields, as outlined below under Graduation Requirements, the student is awarded the degree of Bachelor of Arts or Bachelor of Science.

RELATION TO PROFESSIONAL AND VOCATIONAL SCHOOLS

The degrees of the College of Arts and Sciences are based upon cultural rather than professional or vocational courses. Unless otherwise specified, all the offerings of departments in the college itself are considered to be acceptable. The courses preparatory to Law and Medicine are planned and taught as cultural subjects, and do not infringe upon the work of the professional school. No vocational courses (typing, shorthand, bookkeeping, manual training, etc.) are offered or accepted. Concerning the limited acceptance of work in Education, Engineering, Law, and Medicine, see below, under Electives and among the Special Curricula.

GRADUATION REQUIREMENTS

Graduation in this college normally requires the completion of 124 semester hours in academic subjects and four in physical education, according to the following plan:

1. Completion of the work of the Lower Division within the first 62 hours of residence (see below);
2. Completion of the work of the Upper Division (see below);
3. A proper distribution of courses as regards degree of advancement:
 - (a) Not more than 50 hours may be taken in courses open to freshmen without a reduction in the amount of credit usually given for such courses.
 - (b) At least 40 hours shall be earned in courses numbered above 100.
4. Satisfactory quality, as judged by the following criteria:
 - (a) The number of grade points earned shall equal the number of hours offered for graduation.
 - (b) Ninety hours shall be of C grade or better; and in addition, students who do part of their work at some other institution shall make a grade of C or better in three-fourths of the hours earned at the University of New Mexico.
5. Completion of such additional hours as may be made necessary (1) through an excess of hours in freshman courses; (2) through deficiencies in grade points, hours above D, or courses numbered above 100; or (3) through penalties incurred by excessive hours of D grade (see pages 57-58).

CURRICULUM LEADING TO GRADUATION

The completion of this curriculum normally requires four years. In the first two years, or Lower Division, the student is expected to acquire certain basic essentials and to explore several different fields to determine where his interest lies. In the last two years, or Upper Division, the student devotes himself to his major interest, to another subject of somewhat less interest, and to such other subjects as he may wish to take. The curriculum and methods of the Lower Division bear some resemblance to the work of the high school; those of the Upper Division are more nearly related to the work of the graduate or professional school.

LOWER DIVISION

The requirements of the Lower Division, in so far as it leads towards the Upper Division and graduation, are as follows:

1. At least 62 semester hours in courses acceptable towards graduation;
2. Sixty-two grade points (A student with 62 hours but less than 62 points remains in the Lower Division until he accumulates 62 points.);
3. Specific courses: Philosophy 1 (Orientation) or an authorized equivalent; Health 1 or 2; Physical Education (four semesters); and group requirements, as described below.

Students in the Lower Division are confined to courses numbered below 101 except in foreign languages. A student with 62 hours and 62 grade points, but deficient in one or more specific or group requirements, may be admitted provisionally to certain Upper Division courses, but he remains under the control of the Lower Division until all deficiencies are removed, and receives no credit for courses taken to remove Lower Division deficiencies.

(NOTE: See, below, Curriculum Leading to the Lower Division Diploma.)

UPPER DIVISION

The requirements of the Upper Division, leading to graduation, are as follows:

1. Sixty-six semester hours (proportionately reduced if the student is excused from Physical Education), in addition to the satisfaction of Lower Division deficiencies in case of provisional admission;
2. An equivalent number of grade points;
3. Forty-five hours of C grade or better;
4. At least 40 hours in courses numbered above 100;
5. Completion of a major and a minor (See page 99 and the various departmental statements.)
6. Electives as desired, subject to conditions elsewhere stated.

GROUP REQUIREMENTS

In keeping with the exploratory aim of the Lower Division, the student distributes part of the work of his first two

years among the four following groups of subjects. The acceptability of transferred work as fulfilling these requirements lies in the judgment of the dean of the college.

I. ENGLISH. Six credit hours must be earned in English 21 and 22, and three additional credit hours must be earned in courses numbered above 50.

II. FOREIGN LANGUAGE.

(a) When a student has been admitted with less than one unit of credit in a foreign language, or when he begins a language in which he has done no work in high school, he must complete fourteen credit hours in one foreign language.

(b) When a student has been admitted with one unit in a foreign language, he must earn ten credit hours in courses above the first semester's work if he continues the same language. When a student has been admitted with two or more high school units, he must earn six college credits if he continues the same language.

(c) When a student has been admitted with three or more units in a single language, he may have the privilege of taking a proficiency examination, which, if passed satisfactorily, will exempt him from further language requirements.

III. SOCIAL SCIENCES. Courses earning nine credit hours must be completed in this group. Not more than six hours from the same department may be applied to this group requirement. When the student has been admitted with less than one unit in social sciences the requirement is raised to twelve credit hours. The subjects in this group are anthropology, economics, education (approved courses), history, government and citizenship, and philosophy.

IV. MATHEMATICS AND SCIENCES. Courses earning twelve credit hours must be completed in this group, and of the twelve at least six must be in courses that require laboratory work. Not more than eight hours from the same department may be applied to this group requirement. When a student has not earned credit in either mathematics or science in high school, the requirement is raised to eighteen credit hours. The subjects in this group are biology, chemistry, geology, home economics (food courses only), mathematics, physics, and psychology (courses 51, 52, 121, and 122).

MAJOR AND MINOR STUDIES

Upon admission to the upper division, each student shall declare his major study, and his program of studies thereafter shall meet the approval of the head of the department in which the major subject lies. He shall complete in his major study not less than twenty-four credit hours earned in those courses prescribed for or accepted by the department toward a major study. Such work must be of at least C quality. Courses in which the grade of D is earned are accepted as electives toward graduation, but are not accepted for major study.

A minor study of twelve credit hours shall be completed in another department and shall conform to the standards set up for the major study except in number of credit hours. The selection of the minor study shall receive the approval of the head of the department wherein the major study lies.

At least one-fourth of the minimum amount of credit hours required for major or minor studies must be earned in this University. No advanced standing in the major or minor studies is granted to a student presenting credits from another institution until after he has been in residence at this university for at least one semester, and then only after completion of three credit hours in the major study in this university.

Majors or minors in education are not accepted toward degrees in this college.

ELECTIVES

After all requirements are attended to, a student may complete his program with elective courses, with regard, however, to the following provisions:

1. The requirements of 40 hours in courses numbered above 100, and the 50-hour limitation on freshman courses, should be kept in mind.

2. The following courses, offered by the Colleges of Education and Engineering of the University of New Mexico, are accepted towards the degree in the College of Arts

and Sciences: Education 31, 55, 101, 102, 109, 141, 174, and all Psychology courses; Engineering 1, 2, 51, 55, 56, 60; Civil Engineering 108; Electrical Engineering 101-102 or 105-106; Mechanical Engineering 101, 102, 109.

The election of courses in other colleges is always in the control of the Dean of the College of Arts and Sciences, who should be consulted by students wishing to choose courses other than those listed above. Credit in educational methods courses is given only when such courses are given by the student's major or minor department. Credit normally will not be given for professional courses taken outside the University of New Mexico.

NORMAL FRESHMAN PROGRAM

The following is the standard freshman program. Necessary deviations from it should be made only after consultation with the dean.

First Semester		Second Semester	
Physical Education 1 or 5	1	Physical Education 2 or 6	1
Philosophy 1 (Orientation)	2	Health 1	2
English 21*	3	English 22*	3
Foreign Language	3-4	Foreign Language	3-4
Social Science (Group III)	2-3	Social Science (Group III)	2-3
Mathematics or Science	2-4	Mathematics or Science	2-4
(Group IV)		(Group IV)	
Total	16-17	Total	16-17

*If the student fails to pass the placement test, English 11 is taken in the first semester, and English 21, in the second.

If room is left in the program additional courses may be taken in art, home economics, music, or library science.

CURRICULUM LEADING TO THE LOWER DIVISION DIPLOMA

Upon the completion of Lower Division requirements, as given above, the student is given a diploma as recognition of his progress to that point. In addition, students who find themselves unable for any reason to remain in college longer than two years, and students who have not met all the con-

ditions necessary for entrance into the Upper Division, are given the diploma after the fulfillment of the following minimum requirements:

1. Sixty-two semester hours;
2. The specific requirements of Philosophy 1 (Orientation), Health 1 or 2, and Physical Education (4 hours);
3. Six hours each in English, the social sciences, and mathematics or science.

It should be observed that the Lower Division diploma is not a certificate of entrance into the Upper Division, since it is based upon reduced group requirements and lacks the grade-point requirement.

SPECIAL CURRICULA

CURRICULUM IN HOME ECONOMICS

FIRST YEAR

First Semester		Second Semester	
*English 21	3	*English 22	3
Chemistry 1	4	Chemistry 2	4
Art 15	3	Art 16	3
Philosophy 1 (Orientation)	2	Health 1	2
Home Economics 11	3	Home Economics 12	2
Physical Education 5	1	Home Economics 14	3
	—	Physical Education 6	1
Total	16		—
		Total	18

SECOND YEAR

Biology 11	4	English 63 or 65	3
Foreign Language	3-4	Foreign Language	3-4
Physics 61	3	Chemistry 68	3
Home Economics 53	3	Home Economics 54	3
Social Science	3	Social Science	3
Physical Education 55	1	Physical Education 56	1
Total	17-18	Total	16-17

*If the student fails to pass the placement test, English 11 is taken in the first semester and English 21, in the second.

THIRD AND FOURTH YEARS

Economics 105, Biology 53 and 93, and Home Economics 107, 127, 132, 138, 182, and 196. A minor study must also be completed.

COMBINED CURRICULUM IN ENGINEERING AND
ARTS AND SCIENCES

Degrees in both the College of Arts and Sciences and the College of Engineering may be obtained by following a five-year curriculum, to be outlined in each case jointly by the deans of the two colleges. It is largely immaterial in which college the student first registers, but any student interested in this curriculum should confer with the deans before the end of the sophomore year.

SENIOR YEAR IN MEDICINE OR LAW

A candidate for the bachelor's degree may offer, in lieu of the last thirty hours at the University of New Mexico, the full first year's work, satisfactorily passed and properly certified, of a class A medical college or of an approved school of law, requiring in each case three years for entrance, provided

- (1) That written notice of this intention be submitted to the dean before the end of the junior year;
- (2) That thirty of the junior hours (61-94) shall have been taken in residence at the University of New Mexico;
- (3) That, before entrance into the professional school, the candidate shall have completed all specific and group requirements and major and minor requirements in accordance with University regulations and to the satisfaction of the heads of the departments concerned;
- (4) That at least seventy-five per cent of the hours completed before entrance into the professional school shall have been of C grade or better, and that the total of grade points shall at least equal the total number of hours completed.

CURRICULUM PREPARATORY TO LAW

All law schools of high rank now require a certain amount of work in a college of arts and sciences before admission to the study of law. The student who plans to take up the study of law should first gain a broad foundation for his later work, taking at least two years of English, history, government, economics, the languages, and the sciences. The exact curriculum will depend upon the requirements of the

law school which the student plans to enter, but he should, in general, pursue the regularly required courses for the freshman and sophomore years, choosing his electives under the direction of the dean of the college.

CURRICULUM PREPARATORY TO MEDICINE

The minimum of college work required for admission to medical schools approved by the Council on Medical Education in the United States is sixty semester hours in a college of arts and sciences. There are, however, a number of leading medical schools whose admission requirement exceeds that approved by the Council on Medical Education, ranging from a minimum of sixty-five semester hours in some schools to a Bachelor of Arts degree in others. It is recommended that whenever possible the student spend at least three years, i.e., six semesters, in residence in a college of arts and sciences before proceeding to a medical school. He should determine before registration what medical school he desires to attend, and should arrange his curriculum to meet the requirements of the particular school.

Special attention is called to the Medical Aptitude Examination now required by the majority of leading medical colleges. This examination is to be taken in the last year of the pre-medical course, and is administered by the institution in which the pre-medical work is taken. Public announcement of the examination is made each year.

The following subjects are required or recommended in the two or three years of college work preparatory to medical college.

Besides satisfying the lower division requirement in physical education, Philosophy 1, English, and the social sciences, the pre-medical student should, during his first two years, shape his program according to the following list:

Required	Hours	Advised	Hours
Chemistry	12-16	Mathematics 15 and 16	6
Biology	8-12	Psychology	3-6
Physics	8	Latin	6-12

Required	Hours	Advised	Hours
French or German	6-12	Economics	3-6
		History	3-6
		Additional Chemistry	3-6
		Additional Biology	3-6

Students who expect to take a degree at the University of New Mexico before proceeding to a medical college must add to this list the courses necessary to meet the group, major and minor, and other requirements.

Suggestions regarding individual subjects:

Chemistry. Required, eight hours of general inorganic (including four hours of laboratory work), and additional hours of organic; recommended in addition, quantitative analysis.

Biology. Required, eight hours of general biology or zoology, or four hours each of zoology and botany (including four hours of laboratory work); recommended in addition, comparative vertebrate anatomy, and work in animal histology, embryology, or animal physiology.

Physics. Required, eight hours. This work should be preceded by a course in trigonometry.

French or German. Required, a reading knowledge of one of these languages.

Electives. The leading medical schools urge a broad foundation of culture and general knowledge before entrance upon the professional course, rather than undue emphasis upon scientific or semi-professional subjects.

TEACHING CERTIFICATE

A student in the college of Arts and Sciences may obtain a teaching certificate in New Mexico by taking History 61, and the number of hours in education specified by the State Department of Education for the certificate desired. For acceptable courses in education, see page 99.

DEGREES

Upon the recommendation of the faculty and President of the University, the degree of Bachelor of Arts is conferred by the Regents of the University upon those candidates who have completed the requirements for the same. If such candidates have completed a major study in Group IV, they may, upon request, receive the degree of Bachelor of Science.

NORMAL PROGRAM

The normal program for a student intending to graduate in four years is sixteen hours a semester. Fourteen hours are the minimum, except for reasons presented in writing and duly approved by the dean. Seventeen hours are the maximum, except by petition to the Committee on Scholarship, which may, in its discretion, grant up to nineteen hours (including non-credit courses). Ordinarily, a petition for excessive hours will not be considered unless the student has in the preceding semester made a grade of B in two-third of his hours, and no grade below C.

COLLEGE OF ENGINEERING

The duties of the engineer are so varied and far-reaching that no single definition adequately portrays his services to the human race. He should, however, be able to apply the laws of nature to the benefit of mankind, to manage and control technical works and industries, and to apply his scientific training and experience to the political and social problems of his day. Such a variety of work requires men of good character who are well grounded in the fundamentals of the profession of engineering.

It is the purpose of the College of Engineering to train the student in the elements of his branch of engineering, and to develop honesty, loyalty, industry, and thoroughness, so that he may enter the profession of his choice with profit to mankind as well as to himself.

ADMISSION

A detailed statement of entrance requirements will be found on page 40.

A student desiring to enter the engineering profession is sometimes at a loss to know what subjects to elect from the mass of work now offered in the average high school, in order to derive the greatest profit from his college work. The following outline of courses is suggested for those students wishing to enter the College of Engineering:

	Units
English	3
Mathematics (algebra 1, plane geometry 1)	2
Social Sciences (at least two of which should be history)	3
Natural Sciences (preferably physics)	1
Foreign Language	2
*Electives	4

Transfer students, special students, and auditors desiring to enter the College of Engineering will be governed by the rules and regulations outlined on pages 41-42.

*It is recommended that at least one additional unit (preferably in algebra) be elected in mathematics.

SCHOLASTIC REGULATIONS

Students in the College of Engineering will be governed by the scholarship regulations given on pages 54-55.

COURSES OF STUDY

The College of Engineering offers five four-year programs of study leading respectively to the degrees of Bachelor of Science in Chemical Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Geological Engineering, and Bachelor of Science in Mechanical Engineering. It also is possible to arrange a program of study so that the Bachelor of Arts degree can be obtained in one additional year. See page 102.

ARCHITECTURAL ENGINEERING

While a degree is not offered in architectural engineering, it is possible to arrange a two-year program of study toward a degree. The student can then transfer to another institution offering a four-year program.

SPECIAL COURSES

Such courses as aeronautical engineering, petroleum production engineering, industrial engineering, heating and ventilating engineering, railway mechanical engineering, refrigerating engineering, etc., are special courses in the field of mechanical engineering.

Such courses as sanitary engineering, city planning, structural engineering, transportation engineering, hydraulic engineering, etc., are special courses in the field of civil engineering.

Such courses as electrical power engineering, electrical communication, illumination engineering, etc., are special courses in the field of electrical engineering.

Such courses as metallurgy, gas engineering, organic technology, etc., are special courses in the field of chemical engineering.

Students desiring to major in any of the special courses listed above, should take a Bachelor of Science degree in the general related field, and then take graduate work in a school offering the special course that he wants. It is not considered advisable by authorities in the engineering profession for the student to take highly specialized courses for an undergraduate degree.

LABORATORIES AND EQUIPMENT

DRAWING AND DESIGN LABORATORIES

The College has three well-equipped rooms in Hadley Hall to care for all of the drafting room work offered. One of these rooms is used for freshman work, one for sophomore and junior work, and one for senior work. The three rooms are equipped with drafting tables and filing cabinets, and the senior room is provided with such equipment as a calculating machine and two Universal drafting machines.

CHEMICAL LABORATORIES

The chemical laboratories are equipped for teaching undergraduate courses in chemistry. They are housed in the chemistry building which includes an open-air laboratory in the patio of the building, and have a combined capacity for handling 240 students. The chemistry building also contains a chemical library, balance rooms, stock rooms, and preparation rooms, as well as a large lecture room.

CIVIL ENGINEERING LABORATORIES

The civil engineering laboratories include a road material laboratory, building material laboratory, hydraulics laboratory, and surveying equipment to be used in all types of elementary and advanced field courses.

The materials testing laboratory is equipped for making tests of materials used in engineering practice, such as cement, concrete, stone, brick, tile, timber, steel, and other metals. Tests are conducted by students to illustrate the properties of these materials. The laboratory also is used

for research problems, and, to a limited extent, for commercial testing. All equipment and all tests conform to accepted standards of engineering practice.

The hydraulics laboratory is equipped to study the flow of water in open channels, through pipes and orifices, and over weirs, illustrating the principle of hydraulics as used in the theoretical courses and in courses in water supply, sewerage, and drainage.

The highway testing laboratory contains a complete set of equipment for making standard tests on road oils and asphalts, and also machines for the testing of gravels used in highway construction.

Field work and office computations in surveying are conducted with modern equipment of the highest grade, such as is used in general engineering practice.

ELECTRICAL ENGINEERING LABORATORY

The laboratory is equipped for experimental work in electrical measurements, and in testing of direct and alternating current machinery, and for demonstration work in applied electricity.

Apparatus is available for demonstrations and experiments in radio, communications, signalling, and remote control.

Close co-operation is maintained between the laboratories of the Departments of Physics and Electrical Engineering, so that the equipment of both these departments is available to each. Such co-operation has become necessary because of the overlapping of physics and electrical engineering in the growing applications of electricity to such varied fields as those of illumination, television, signalling, music, seismology, prospecting, medicine, and surgery, as well as to an unlimited number of control devices.

Year by year in addition to standard apparatus, an amount of special equipment is being added to the laboratory, such as, for instance, a high voltage transformer for work on insulation and on corona losses, and an oscillograph

with photographic recording device for the investigation of transient phenomena.

MECHANICAL ENGINEERING LABORATORY

The mechanical engineering laboratory is housed in the north wing of Hadley Hall and contains approximately 2,500 square feet of floor area. New equipment has recently been added to this laboratory so that the required number of experiments can be carried out during the junior and senior years.

An effort has been made to bring the student into contact with as many phases of mechanical engineering as possible in his laboratory work. The laboratory is equipped for experimental work in such fields as heat power, air and gas flow, and refrigeration. In his work in heat power the student will come into contact with steam boilers, steam engines, steam turbines, condensers, gas engines, and various auxiliary equipment necessary to complete the units. In his work in air and gas flow, the student will come into contact with the compression of air, the flow of air at low pressure, and the various methods of measuring the flow of high- and low-pressure air and gasses. In the study of refrigeration, the student will come into contact with a complete refrigerating plant representing the latest practice in this field and designed for experimental work. In addition to the above the student will come into contact with the various instruments to measure power, speed, pressure, temperature, quantity, etc.

While this list does not include all of the equipment in this laboratory, it is sufficient to give some idea of the variety of work possible.

REQUIREMENTS FOR GRADUATION

Candidates for the degree of Bachelor of Science in any of the departments of the College of Engineering must complete all of the work outlined in their respective curricula.

The course of study for the first year is uniform for all departments, and the courses of study for civil, electrical,

and mechanical engineering are uniform for the first and second years.

Students electing civil, electrical, or mechanical engineering should indicate their preference at the end of the sophomore year. Students electing chemical or geological engineering should indicate their preference at the end of the freshman year.

Electives, where permitted, are to be chosen with the advice and consent of the head of the major department concerned, and of the dean.

Students required to take English 11, because of a deficiency in preparation as determined by a preliminary examination, must do so in addition to the regular courses in English.

Two-thirds of the semester hours in the required work must be of C grade or better and the total number of grade points in the hours offered for graduation must equal the total number of hours.

CURRICULA OFFERED BY THE COLLEGE OF ENGINEERING

COURSES OF STUDY FOR ALL ENGINEERING STUDENTS

FIRST YEAR—FIRST SEMESTER

(Note: In the following table the figures in the first column to the right indicate the number of hours per week in class or lecture room, those in the second column indicate the number of hours per week in the laboratory or drawing room, and those in the third column indicate the credit hours per semester.)

Mathematics 15	Algebra	3	0	3
Mathematics 1	Solid Geometry	3	0	3
Chemistry 1	Inorganic	3	3	4
English 21	Freshman Composition	3	0	3
Engineering 1	Engineering Drawing	1	3	2
Philosophy 1	Orientation	2	0	2
Physical Education 1	.....	3	0	1

SECOND SEMESTER

Mathematics 16	Trigonometry -----	3	0	3
Mathematics 22	Analytic Geometry -----	3	0	3
Chemistry 2	Inorganic -----	3	3	4
English 22	Freshman Composition -----	3	0	3
Engineering 2	Engineering Drawing -----	1	3	2
Health 1	Personal Health -----	2	0	2
Physical Education 2	-----	3	0	1

SECOND YEAR—FIRST SEMESTER

Mathematics 53	Calculus -----	4	0	4
Physics 51	Engineering Physics -----	4	3	5
Economics 105*	Principles of Economics -----	3	0	3
Engineering 51	Descriptive Geometry -----	1	3	2
Engineering 55	Elementary Surveying -----	1	3	2
Engineering 58	Engineering Lectures -----	1	0	1
Physical Education 51	-----	3	0	1

SECOND SEMESTER

Mathematics 54	Calculus -----	4	0	4
Physics 52	Engineering Physics -----	4	3	5
Economics*	Elective -----	3	0	3
Engineering 56	Elementary Surveying -----	1	3	2
Engineering 60	Applied Mechanics (Statics) -----	2	3	3
Physical Education 52	-----	3	0	1

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*The following courses in chemistry must be substituted for economics by those students electing chemical engineering.

FIRST SEMESTER

Chemistry 51-51a	Qualitative Analysis -----	3	6	5
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SECOND SEMESTER

Chemistry 52	Gravimetric Quantitative Analysis -----	0	8	4
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*The following courses in geology must be substituted for economics by those students electing geological engineering.

FIRST SEMESTER

Geology 1	Physical Geology -----	3	0	3
Geology 5	Physical Geology Laboratory -----	0	2	1

SECOND SEMESTER

Geology 2	Historical Geology -----	3	0	3
Geology 6	Historical Geology Laboratory -----	0	2	1

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF
SCIENCE IN CHEMICAL ENGINEERING

THIRD YEAR—FIRST SEMESTER

Chemistry 101	Quantitative Analysis	0	6	3
Chemistry 102	Organic Chemistry	2	6	4
M. E. 101	Heat-Power Engineering	3	0	3
M. E. 103	Heat-Power Laboratory	0	6	2
Economics 105	Principles of Economics	3	0	3
M. E. 109	Applied Mechanics (Dynamics)	3	0	3
				18

SECOND SEMESTER

Chemistry 103	Organic Chemistry	2	6	4
Chemistry 152	Advanced Quantitative Analysis	0	8	4
C. E. 108	Strength of Materials	3	0	3
M. E. 102	Thermodynamics	3	0	3
Economics	Elective	3	0	3
				17

FOURTH YEAR—FIRST SEMESTER

Chemistry 112	Industrial	2	0	2
E. E. 105	P. and P. of E. E.	2	3	3
English 65	Practical English	3	0	3
Geology 51	Mineralogy	1	3	2
M. E. 105	Engineering Materials	3	0	3
Electives .....	.....	3	0	3
				16

SECOND SEMESTER

Chemistry 110-110a	Physical Chemistry and Laboratory	4	3	5
Chemistry 113	Metallurgy	2	0	2
E. E. 106	P. and P. of E. E.	2	3	3
C. E. 110	Hydraulics	2	0	2
M. E. 156	Engineering Economics	3	0	3
Electives .....	.....	2	0	2
				17
Total .....	.....			143

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL ENGINEERING

THIRD YEAR—FIRST SEMESTER

C. E. 103	Advanced Surveying	2	6	4
M. E. 109	Applied Mechanics (Dynamics) ..	3	0	3
M. E. 101	Heat-Power Engineering	3	0	3
M. E. 107	M. E. Laboratory	0	3	1
C. E. 115	Masonry	2	3	3
E. E. 105	P. and P. of E. E.	2	3	3

SECOND SEMESTER

C. E. 108	Strength of Materials	3	0	3
C. E. 112	Strength of Materials Laboratory ..	1	3	2
C. E. 110	Hydraulics	2	0	2
C. E. 118	Highway Engineering	2	3	3
C. E. 104	Railroad Engineering	3	3	4
E. E. 106	P. and P. of E. E.	2	3	3

SUMMER CAMP

C. E. 157	Field Surveying	0	6	2
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FOURTH YEAR—FIRST SEMESTER

C. E. 159	Stresses in Structure	2	3	3
C. E. 169	Topographic Mapping	0	3	1
C. E. 167	Reinforced Concrete	2	3	3
C. E. 165	Sewerage	2	0	2
C. E. 173	Hydraulics Laboratory	0	3	1
Geology 1	Physical Geology	3	0	3
Geology 5	Physical Geology Laboratory	0	2	1
English 65	Practical English	3	0	3

SECOND SEMESTER

C. E. 162	Water Supply	3	0	3
C. E. 160	Design of Structures	2	3	3
C. E. 170	Contracts and Specifications	2	0	2
C. E. 166	Municipal Design	1	6	3
C. E. 182	Seminar	1	0	1
Electives	.....	5	0	5

17

Total ----- 142

**CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF
SCIENCE IN ELECTRICAL ENGINEERING**

THIRD YEAR—FIRST SEMESTER

E. E. 101	D. C. Machinery	4	0	4
E. E. 111	D. C. Machinery Laboratory	0	6	2
M. E. 109	Applied Mechanics (Dynamics)	3	0	3
Physics 111	Electricity and Magnetism	2	6	4
M. E. 101	Heat Power	3	0	3
M. E. 107	M. E. Laboratory	0	3	1

—
17

SECOND SEMESTER

E. E. 102	A. C. Theory	4	0	4
E. E. 112	A. C. Laboratory	0	6	2
E. E. 114	D. C. Traction	1	0	1
C. E. 108	Strength of Materials	3	0	3
C. E. 112	Materials Laboratory	1	3	2
M. E. 102	Thermodynamics	3	0	3
C. E. 110	Hydraulics	2	0	2

—
17

FOURTH YEAR—FIRST SEMESTER

E. E. 151	A. C. Machinery	4	0	4
E. E. 155	A. C. Machinery Laboratory	0	6	2
E. E. 161	Electrical Design	1	6	3
E. E. 193	Communications	3	0	3
E. E. 197	A. C. Traction	1	0	1
English 65	Practical English	3	0	3
C. E. 173	Hydraulics Laboratory	0	3	1

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17

SECOND SEMESTER

E. E. 152	A. C. Machinery	4	0	4
E. E. 156	A. C. Machinery Laboratory	0	6	2
E. E. 162	Electrical Design	1	6	3
E. E. 196	Transmission	3	0	3
E. E. 198	Illumination	1	0	1
E. E. 200	Radio and Signalling	2	0	2
C. E. 170	Contracts and Specifications	2	0	2

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17

Total ----- 140

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF
SCIENCE IN GEOLOGICAL ENGINEERING

THIRD YEAR—FIRST SEMESTER

Geology 51	Mineralogy -----	1	2	2
Geology 107	Petrology -----	2	2	3
Geology 109	Stratigraphy -----	2	4	4
C. E. 103	Advanced Surveying -----	2	6	4
Economics 105	Principles of Economics -----	3	0	3

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SECOND SEMESTER

Geology 52	Determinative Mineralogy -----	0	4	2
Geology 108	Structural Geology -----	3	0	3
Geology 110	Stratigraphy -----	2	4	4
C. E. 108	Strength of Materials -----	3	0	3
Economics	Elective -----	3	0	3
Electives	-----	3	0	3

18

SUMMER CAMP

C. E. 157	Field Surveying -----	0	6	2
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FOURTH YEAR—FIRST SEMESTER

Geology 101	Economic Geology -----	3	0	3
Geology 105	New Mexico Geology -----	0	6	2
Geology 111	Paleontology -----	3	3	4
C. E. 169	Topographic Mapping -----	0	3	1
English 65	Practical English -----	3	0	3
Chemistry 51-51a	Qualitative Analysis -----	3	6	5

18

SECOND SEMESTER

Geology 102	Economic Geology -----	3	0	3
C. E. 112	Strength of Materials Laboratory	1	3	2
Geology 112	Paleontology -----	3	3	4
Chemistry 52	Gravimetric Quantitative Analysis	0	8	4
Chemistry 113	Metallurgy -----	2	0	2
Geology 106	Geologic Mapping -----	0	6	2

17

Total ----- 145

CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

THIRD YEAR—FIRST SEMESTER

M. E. 109	Applied Mechanics (Dynamics) ..	3	0	3
M. E. 101	Heat Power Engineering	3	0	3
M. E. 103	Heat Power Laboratory	0	6	2
M. E. 105	Engineering Materials	3	0	3
E. E. 105	P. and P. of E. E.	2	3	3
English 65	Practical English	3	0	3

17

SECOND SEMESTER

C. E. 108	Strength of Materials	3	0	3
C. E. 112	Materials Laboratory	1	3	2
M. E. 102	Thermodynamics	3	0	3
M. E. 114	Mechanisms	2	6	4
C. E. 110	Hydraulics	2	0	2
E. E. 106	P. and P. of E. E.	2	3	3

17

FOURTH YEAR—FIRST SEMESTER

M. E. 151	M. E. Laboratory	0	6	2
M. E. 153	Machine Design	2	3	3
M. E. 155	Power Plants	4	0	4
C. E. 173	Hydraulics Laboratory	0	3	1
M. E. 157	Seminar	1	0	1
Electives	.....	6	0	6

17

SECOND SEMESTER

M. E. 152	M. E. Laboratory	0	6	2
M. E. 154	Machine Design	2	3	3
M. E. 156	Engineering Economics	3	0	3
C. E. 170	Contracts and Specifications	2	0	2
M. E. 158	Seminar	1	0	1
Electives	.....	6	0	6

17

Total 140

COLLEGE OF EDUCATION

PURPOSE

The purpose of the College of Education is to meet the needs of the State in the preparation, training, and certification of teachers, supervisors, and administrators. The college sets for itself these tasks: the thorough training of elementary and high school teachers, the thorough training of supervisory and administrative officers, the provision of courses in the various fields of education and opportunities for research.

The curricula are based upon the assumption that the teacher or supervisory officer should have a broad and liberal education; that he should be master of the subject or group of subjects that he expects to teach; and that his training should be supplemented by professional education designed to give a knowledge of the pupils to be taught, the problems to be met in teaching, and the new meaning of the subjects of instruction. For the prospective teacher this policy has the effect of placing the emphasis upon the subject he intends to teach. For supervisors and school executives, however, it is advisable to major in education.

STANDARDS

Graduation from the College of Education meets the requirements of the State Board of Education in New Mexico for certification of high school teachers, and the recommendations of the North Central Association of Colleges and Secondary Schools as to professional subjects in education, and the proper subject matter courses for purposes of high school teaching. On account of the tendency in the various states to increase the number of credit hours in education for certification, students are advised to secure credit in not less than twenty-one semester hours in education, including general psychology.

Rules and regulations pertaining to elementary and secondary certificates may be obtained from the State Department of Education.

ADMISSION

For the quantitative requirements for admission to the College of Education see pages 38-40.

The following points will be considered of applicants for admission to the College of Education:

1. Good moral character
2. Physical fitness
3. Intellectual fitness
4. Personal qualities necessary for success in some field of education.

Graduates of the standard (two-year) curriculum for state teachers' colleges who had graduated previously from a four-year high school (covering requirements for entrance to the freshman class of this institution) are accorded sixty-two semester hours credit, including sixteen semester hours in education and psychology. Work done after completion of a two-year school course will be considered on its merits.

If a student intends to enter the College of Education to prepare for teaching, the sooner he does so the better, in order that he may be educationally guided, and be enabled to meet all the requirements for graduation, and make the necessary professional adjustments. It is difficult and almost impossible to do this unless the student enrolls in the College of Education before the senior year.

Those who do not enter the College of Education until the beginning of their senior year must have had at least twelve hours of education and psychology.

MAXIMUM AND MINIMUM NUMBER OF HOURS

Each student shall enroll for not less than fourteen semester hours, except for reasons presented in writing and duly approved by the dean. This restriction does not

apply to students who by special arrangement are enrolled for six hours or less.

No student in this college may enroll for more than seventeen credit hours unless his standing for the previous semester be at least B in two-thirds of his studies, with no grade below C; and then only by presenting a written petition to the Committee on Scholarship, who may, in their discretion, grant permission to enroll for extra work up to a maximum of nineteen credit hours.

PRACTICE TEACHING FACILITIES

The College of Education has made arrangements with the Albuquerque public school authorities whereby student teaching is carried on under the personal direction of selected teachers, who act as critic teachers under the general direction of a professor of education in the College of Education.

The facilities of the city school system furnish an excellent opportunity for students to work in a practical laboratory where the principles and best practice in teaching can be exemplified and applied. The practice teaching is correlated with the subjects taught in the University by competent professors in the field.

PLACEMENT BUREAU

A placement bureau, one function of which is to assist students and graduates of the University to obtain positions in the teaching profession, is maintained by the University. The bureau aims to secure and keep on file a complete record of the scholarship, experience, and personal qualifications of each candidate for a position. Copies of these records will be mailed to school officials at their request or at the request of the candidates concerned. Officials seeking teachers should be explicit in their requests, stating the nature of the work to be done, the length of the school year, the approximate salary offered, the approximate cost of board, and the time when the engagement begins. Whenever a notice of a vacancy is received, the placement bureau

will recommend the best available person for the position. The University reserves the right to refuse to extend its co-operation to students who apply for positions for which they are manifestly unfit.

The placement bureau will be glad to be informed promptly of present or prospective vacancies in positions for which college-trained men or women are eligible.

Blanks for registration may be obtained from the placement bureau. Registration must be renewed yearly, preferably during February or March. Communications should be addressed to the Placement Bureau, University of New Mexico, Albuquerque, New Mexico.

EXTENSION DIVISION

The Extension Division of the University of New Mexico is a member of the National University Extension Association and is under the supervision of the College of Education. A special bulletin has been issued giving regulations and information concerning all courses in the various departments of the colleges of the University.

For further information, address the Director of the Extension Division, University of New Mexico.

REQUIREMENTS FOR GRADUATION

Graduates of the College of Education who major in education or in the sciences receive the degree of Bachelor of Science in Education; those who major in physical education receive the degree of Bachelor of Science in Physical Education; and those who major in other subjects receive the degree of Bachelor of Arts in Education.

Candidates for degrees in the College of Education will be required to complete the following:

1. To enter the junior year the candidate will be required to have as many grade points as hours carried. At the end of any semester beginning with the junior year, a student will be dropped from the College of Education unless he has earned as many grade points as hours carried.

2. No student will be recommended for graduation unless he shows ability to write clear and correct English.
3. Each candidate for a degree must complete at least forty semester hours in courses numbered above 100.
4. Students preparing to teach should follow the curricula as outlined. A total of 128 semester hours including health and physical education is required for graduation. This amount is based upon the average quality of work done. (See pages 57-58). Ninety hours of the total must be C grade or better, and in addition students transferring from other institutions must make grade C or better in three-fourths of the hours earned in the University of New Mexico.
5. A student preparing to teach in the secondary schools must select as a major some subject which he expects to teach, taking not less than twenty-four hours accepted toward a major by the department concerned, and a minor of not less than twelve semester hours. Such work must be of at least C quality. Courses in which the grade of D is earned are accepted as electives toward graduation but are not accepted for a major or a minor study. Whenever possible the student should secure a second minor of at least twelve semester hours.
6. A student who intends to take the four-year curriculum for elementary school teaching is advised to select both his major and minor from the following fields: English, history, biology, anthropology, geology. All natively English-speaking students who plan to teach in New Mexico are advised to minor in Spanish.

7. In addition to the required work in majors and minors, professional courses in education are required as outlined in the various curricula.
8. Students who desire to prepare for administrative or supervisory positions should major in the curriculum for administrators and supervisors, and minor in some subject which has bearing upon their chosen field of work.
9. For minimum residence requirements, see page 58.

GROUP REQUIREMENTS

Students must complete the following requirements in the various groups. As much of this work as possible should be done in the freshman and sophomore years and professional work and major and minor requirements should be completed in the junior and senior years. For required courses in health, physical education, and Philosophy 1 see page 59-60.

- I. **ENGLISH.** As evidence of proficiency in oral and written English, a student must earn twelve credit hours. Six credit hours must be earned in English 21 and 22, and six additional hours must be earned in courses numbered above 50.
- II. **FOREIGN LANGUAGE OR SUBSTITUTION.**
 - (a) When a student has been admitted with less than one unit of credit in a foreign language, or when he begins a language in which he has done no work in high school, he must complete fourteen credit hours in one foreign language.
 - (b) When a student has been admitted with one unit in a foreign language, he must earn ten credit hours in courses above the first semester's work if he continues the same language. When a student has been admitted with two or more high school units, he must earn six college credits if he continues the same language.
 - (c) When a student has been admitted with three or more units in a single language, he may have the privilege of taking a proficiency examination, which, if passed satisfactorily, will exempt him from further language requirements.
 - (d) Substitutions may be made as follows:
 - (1) Administrators and supervisors may substitute an equal number of hours of professional subjects.

- (2) High school and elementary teachers may substitute an equal number of hours in their major and minor fields in addition to the regular requirements. This additional work must be of C grade or better.

III. SOCIAL SCIENCES. Courses earning nine credit hours must be completed in this group. Not more than six hours from the same department may be applied to this group requirement. When a student has been admitted with less than one unit in social sciences, the requirement is raised to twelve credit hours. The subjects contained in this group are anthropology, economics, history, political science, philosophy.

IV. MATHEMATICS AND SCIENCES. Courses earning twelve credit hours must be completed in this group, and of the twelve, at least six must be in courses that require laboratory work. Not more than eight hours in the same department may be applied to this group requirement. When a student has not earned credit in either mathematics or science in high school, the requirement is raised in his case to eighteen credit hours. The subjects in this group are biology, chemistry, geology, home economics (food courses only), mathematics, physics, psychology (courses 51, 52, 121, and 122).

CURRICULA

The following curricula have been outlined for the purpose of directing students in their chosen fields of work. The curriculum for students preparing to teach in high schools meets the requirements of the North Central Association of Colleges and Secondary Schools, the requirements in New Mexico and other states in the Rocky Mountain region.

There are also curricula for students who wish to teach in the elementary schools. Courses are outlined for those who will remain in the University for the full four years as well as for those who plan to leave the University at the end of the second year and qualify for the three year professional certificate.

Special curricula are provided for students preparing to teach music, physical education or home economics in public schools. Group requirements as shown on page 123 do not apply to these special curricula.

CURRICULUM FOR STUDENTS PREPARING TO TEACH IN HIGH SCHOOL

This four-year curriculum leads to the degree of Bachelor of Arts in Education or Bachelor of Science in Education.

FIRST YEAR			
First Semester		Second Semester	
English 21	3	English 22	3
Education 31	2	Mathematics or Science	3-4
Mathematics or Science	3-4	Social Science	3
Social Science	3	*Foreign Language	3-4
*Foreign Language	3-4	Health	2
Philosophy 1	2	Physical Education	1
Physical Education	1		
SECOND YEAR			
English	3	English	3
Psychology 51	3	‡Education 54 (Psychology)	3
†N. M. History and Civics	2	Social Science	3
*Foreign Language	3	*Foreign Language	3
Physical Education	1	Physical Education	1
Electives	3	Electives or Science	3
THIRD YEAR			
Education 101 or 102	3	Education 153	3
Education 141	3	§Teachers' Course	3
Majors and Minors	10-12	Majors and Minors	10-12
FOURTH YEAR			
§Teachers' Course	3	Education 156	4
Majors and Minors	13	Majors and Minors	11

CURRICULA FOR STUDENTS PREPARING TO TEACH IN THE ELEMENTARY SCHOOLS

This four-year curriculum leads to the degree of Bachelor of Arts in Education or Bachelor of Science in Education.

*For substitution, see Group Requirements for Graduation.

†Required only of those who expect to teach in New Mexico.

‡If not taken during the sophomore year, an advanced course must be substituted according to the advice of the dean and the head of the Department of Secondary Education.

§According to advice of dean.

FIRST YEAR			
First Semester		Second Semester	
English 21	3	English 22	3
Education 31	2	Education 42	3
Mathematics or Science	3-4	Mathematics or Science	3-4
Social Science	3	Social Science	3
*Foreign Language	3-4	*Foreign Language	3-4
Philosophy 1	2	Health	2
Physical Education	1	Physical Education	1
SECOND YEAR			
English	3	English	3
Psychology 51	3	‡Education 54 (Psychology)	3
†N. M. History and Civics		Social Science or Science	3
or Social Science	2	*Foreign Language	3
*Foreign Language	3	Education 62	3
Education 61	3	Physical Education	1
Physical Education	1		
THIRD YEAR			
Education 181 (Psychology)	3	Majors and Minors	15-17
Majors and Minors	12-14		
FOURTH YEAR			
Education 123	3	§Education 136	4
Majors and Minors	12-14	Majors and Minors	11-13

Students who plan to leave the University at the end of their second year to teach in the elementary schools of New Mexico should take the following courses:

FIRST YEAR			
First Semester		Second Semester	
English 21	3	English 22	3
Education 31	2	Education 42	3
Mathematics or Science	3-4	Mathematics or Science	3-4
Social Science	3	Social Science	3
*Foreign Language	3-4	*Foreign Language	3-4
Philosophy 1	2	Health	2
Physical Education	1	Physical Education	1

*For substitution, see Group Requirements for Graduation.

†Required only of those who expect to teach in New Mexico.

‡If not taken during the sophomore year, an advanced course must be substituted according to the advice of the dean and the head of the Department of Elementary Education.

§Prerequisites as shown in Courses in Departments of Instruction.

SECOND YEAR			
English	3	English	3
Psychology 51	3	Education 54 (Psychology)	3
Education 61	3	*Education 64	4
N. M. History and Civics	2	Education 62	3
†Foreign Language	3	†Foreign Language	3
Physical Education	1	Physical Education	1

CURRICULUM FOR STUDENTS PREPARING TO SUPERVISE PUBLIC SCHOOL MUSIC

The following courses are planned to prepare for the teaching and supervision of music in public schools. It will be necessary to follow the outline of subjects for the four years in order to cover the work in theory, applied music, (piano, voice, violin, or pipe organ), music methods, and the regular academic courses. This curriculum leads to the degree of Bachelor of Arts in Education.

When public school music is taken as a major subject, a minor should be taken in applied music. If voice is the minor subject, then at least one year of piano must be elected; or if piano is the minor study, one year of voice should be elected. When violin is the minor study, both voice and piano should be elected. In addition to these courses at least four semester hours work must be done in ensemble, voice, or instrumental music.

Education 136 and 156, practice teaching, are required during both semesters of the senior year. This work will include practice and observation of music teaching and supervision in the elementary grades, junior, and senior high school.

FIRST YEAR			
First Semester		Second Semester	
English 21	3	English 22	3
†Foreign Language	4	†Foreign Language	4
Social Science	3	Social Science	3
Music 3	2	Music 4	2
Education 31	2	Health 1	2
Philosophy 1	2	Physical Education	1
Physical Education	1		

*Prerequisite, a grade of C or better in Education 61.

†For substitution, see Group Requirements for Graduation.

SECOND YEAR			
English	3	English	3
*Foreign Language	3	*Foreign Language	3
Psychology 51	3	†Education 54 (Psychology)	3
Education 42	3	Laboratory Science	4
Music 53	2	Music 54	2
Physical Education	1	Physical Education	1
Applied Music	2	Applied Music	2
THIRD YEAR			
Music 105	2	Music 106	2
Music 161	2	Music 162	2
Music 173	3	Music 174	3
Music 179	2	Music 180	2
Applied Music	4	Applied Music	4
†Education 101 or Education		†Education 102 or Education	
Elective	3	Elective	3
Ensemble Music	1	Ensemble Music	1
FOURTH YEAR			
Music 151	2	Music 152	2
Music 163	2	Music 164	2
Music 177	2	Music 178	2
Education 174	3	Education 156	4
Education 136	4	Applied Music	4
Applied Music	2	Electives	2
Ensemble Music	1	Ensemble Music	1

The following music courses will satisfy the requirements for a minor in public school music: Music 3 and 4; Music 53 and 54; Music 161 and 162, or Music 163 and 164; Music 173 and 174; and applied music—piano, voice, violin, or pipe organ, 4 hours; ensemble music, 4 hours.

Music 63 and 64 are elective for major or minor work in music education.

CURRICULA FOR STUDENTS PREPARING TO BE PHYSICAL DIRECTORS IN HIGH SCHOOLS

A. The following curriculum is outlined for men preparing to teach physical education. This curriculum leads to the degree of Bachelor of Science in Physical Education.

*Follow group requirements in foreign language as shown on page 123.

†If not taken in the sophomore year, an advanced course must be substituted according to the advice of the dean and the head of the Department of Public School Music.

‡Education 101 or 102 is required.

FIRST YEAR			
First Semester		Second Semester	
English 21	3	English 22	3
Chemistry	3-4	Chemistry	3-4
Education 31	2	Physical Education 22	2
Physical Education 21	2	Biology 2	4
Social Science	3	Health	2
Philosophy 1	2	Physical Education 2	1
Physical Education 1	1		
SECOND YEAR			
English 55	3	English 58	3
Psychology 51	3	*Education 54 (Psychology)	3
Physical Education 61	2	Physical Education 62	2
Biology 53	4	Social Science	3
Physical Education 51	1	Physical Education 52	1
Electives	3-4	Electives	4
THIRD YEAR			
Biology 93	4	Biology 190	4
Education 141	3	Education 153	3
Physical Education 161	2	Physical Education 102	2
Education 101 or 102	3	Minor or electives	6-7
Minor or electives	4-5		
FOURTH YEAR			
Physical Education 101	2	Physical Education 162	2
Physical Education 135	2	Physical Education 136	2
Physical Education 167	3	Education 156	4
Physical Education 183	2	Physical Education 184	2
Minor or electives	7-8	Physical Education 172	3
		Physical Education 186	2
		Minor or electives	1-2

B. The following minors in physical education have been outlined for men:

I. Athletic Coaching. Twenty-five credit hours. This minor is offered to qualify men to meet the demands of high schools and colleges, for men to coach and supervise athletics in connection with the teaching of some academic subject. Practical work which is required, but given no academic credit, is to be arranged at the discretion of the department according to the student's needs.

*If not taken in the sophomore year, an advanced course must be substituted according to the advice of the dean and the head of the Department of Physical Education for Men.

Physical Education 21	2	Physical Education 172	3
Physical Education 22	2	Biology 2	4
Physical Education 61	2	Biology 93	4
Physical Education 62	2	Biology 190	4
Physical Education 136	2		—
		Total	25

II. Formal Physical Education. Twenty-five credit hours. This minor is intended to meet the needs of those students who wish to combine the teaching of physical education with their major subject.

Physical Education 21	2	Physical Education 172	3
Physical Education 101	2	Biology 2	4
Physical Education 102	2	Biology 93	4
Physical Education 135	2	Biology 190	4
Physical Education 161	2		—
		Total	25

C. The following curriculum is outlined for women preparing to teach physical education. This curriculum leads to the degree of Bachelor of Science in Physical Education.

FIRST YEAR			
First Semester		Second Semester	
English 21	3	English 22	3
Chemistry	3-4	Chemistry	3-4
Education 31	2	Biology 2	4
Social Science	3	Health	2
Philosophy 1	2	Physical Education 6	1
Physical Education 5	1	Electives	3
SECOND YEAR			
English	3	English	3
Psychology 51	3	*Education 54 (Psychology)	3
Physical Education 65	2	Physical Education 66	2
Biology 53	4	Social Science	3
Physical Education 55	1	Physical Education 56	1
Electives	3	Electives	4-5
THIRD YEAR			
Biology 93	4	Biology 190	4
Education 141	3	Education 153	3

*If not taken in the sophomore year, an advanced course must be substituted according to the advice of the dean and the head of the Department of Physical Education for Women.

Physical Education 105	3	Physical Education 106	3
Physical Education 107	2	Physical Education 108	2
Education 101 or 102	3	Physical Education 161	2
Minor or electives	2	Home Economics 104	2
		Minor or electives	2-3

FOURTH YEAR

Physical Education 155	3	Physical Education 156	3
Physical Education 157	4	Physical Education 172	3
Physical Education 167	3	Physical Education 166	3
Minor or electives	6-7	Education 156	4
		Minor or electives	3-4

For the requirements for a minor in physical education for women, see Courses in Departments of Instruction.

CURRICULUM FOR STUDENTS PREPARING TO TEACH
HOME ECONOMICS

The following curriculum meets the major and minor requirements for students preparing to teach home economics in high schools, and leads to the degree of Bachelor of Science in Education.

FIRST YEAR

First Semester		Second Semester	
English 21	3	English 22	3
Education 31	2	Health	2
Chemistry 1	4	Chemistry 2	4
Art 15	3	Art 16	3
Philosophy 1	2	Home Economics 12	2
Home Economics 11	3	Home Economics 14	3
Physical Education 5	1	Physical Education 6	1

SECOND YEAR

Biology 11	4	English 63 or 65	3
Physics 61	3	*Education 54 (Psychology)	3
Psychology 51	3	Chemistry 68	3
Home Economics 53	3	Home Economics 54	3
Home Economics 61	3	Home Economics 62	3
Physical Education 55	1	Electives	2
		Physical Education 56	1

*If not taken in the sophomore year, an advanced course must be substituted according to the advice of the dean and the head of the Department of Home Economics.

THIRD YEAR

Electives	3	Education 153	3
Education 141	3	Elective in English	3
Home Economics 127	4	Home Economics 182	4
Economics 105	3	Biology 93	4
Biology 53	4	Electives	3

FOURTH YEAR

Elective in Education	3	Education 156	4
Home Economics 107	3	Home Economics 138	3
Home Economics 132	3	Home Economics 196	1
Home Economics 194	3	Electives	8
Electives	4		

CURRICULUM FOR ADMINISTRATORS AND SUPERVISORS

Twenty-four semester hours of work in courses numbered above 50 are necessary for a major. The following courses will satisfy the requirements for a major study in administration and supervision. Candidates will satisfy requirements in a minor study.

Educational Psychology	3	City School Administration	3
History of Education	3	State School Administration	3
Mental Measurements	3	Supervision of Elementary	
Educational Tests and		Education	3
Statistics	3	New Mexico School Law	3

THE GRADUATE SCHOOL

The Graduate School was organized in 1919 for the purpose of encouraging advanced work and independent investigation in the fields in which New Mexico offers exceptional opportunities. The administrative function is to supervise all graduate work in the several departments of the University, to provide the regulations for admission to graduate work, to determine the requirements for degrees, and to recommend for degrees the candidates who have completed their work.

The organization of the Graduate School consists of a dean, a graduate committee, and a graduate faculty. The graduate faculty includes all members of the University faculty who offer instruction in approved graduate courses.

ADMISSION

Admission to the Graduate School is usually granted to graduates of accredited institutions whose requirements for the bachelor's degree are equivalent to those of the University of New Mexico. Graduates of other institutions may be admitted provisionally with conditions that must be removed before admission to candidacy. A senior in an undergraduate college who is enrolled for sufficient work to complete the requirements for his bachelor's degree may enroll in the Graduate School for the remainder of his program, provided the total enrollment does not exceed sixteen hours for the semester. Any student may be refused admission if his previous college record is of such inferior quality as to indicate inability to pursue advanced work satisfactorily.

Admission to the Graduate School does not imply admission to candidacy for a degree. The right to candidacy can be acquired only by demonstrating in residence the preparation and ability to pursue graduate work.

Application for admission to the Graduate School should be filed with the dean before the first enrollment. The application should be accompanied by complete transcripts of all college work not already entered on the Registrar's books at this University.

REGISTRATION

A student expecting to become a candidate for a master's degree should select a major department and consult the professor in charge as to courses. He should limit his program to fifteen hours and must not exceed sixteen hours a semester. A student not expecting to become a candidate for a degree may enroll for any work for which he is prepared.

AMOUNT OF WORK

A candidate for a master's degree must complete a minimum of thirty semester hours in work open to graduate students in addition to such other reading and investigation as may be necessary to gain a satisfactory knowledge of the major field and to prepare for the oral examination. The thirty hours include a thesis which shall represent not less than three nor more than six semester hours.

DISTRIBUTION OF WORK

Work which is to count towards a master's degree cannot be chosen from more than three departments, and not more than two-thirds of the work for the degree can be earned in the major field. The credits may all be earned in the same department, provided that at least ten hours are done in fields that are separate and distinct from the major field. The whole program must be approved and directed by the major professor.

Each candidate shall earn at least ten hours in courses open to graduates only. These will usually consist of six hours in the thesis and four hours in problem work or other courses numbered above 200.

QUALITY OF WORK

The quality of graduate work will be determined as follows: (1) Only grades of A, B, or C will give credit; (2) Two-thirds of the total number of hours for the degree must be of A and B grade; (3) Candidates for degrees must have two-thirds of the work for any semester or summer session of A and B grade in order to be eligible for reregistration, unless by special permission of the Graduate Committee.

Courses that were completed five years prior to the time of the oral examination will not be accepted towards the degree.

ADVANCED STANDING

Graduate credit to the extent of nine semester hours may be accepted from other fully accredited institutions and applied on a master's degree, but in no case may the advanced standing reduce the residence requirement.

RESIDENCE

The minimum residence requirement for a master's degree is one year. Exceptions may be made for instructors on the teaching staff and for those holding bachelor's degrees from the University of New Mexico, who may do half of the work in other approved graduate schools and take only the last half of the year in this University. Courses taken in other graduate schools must be acceptable to the major department.

SUMMER SESSION

Graduate students in the summer session are subject to the same regulations as are students in the regular year. Students desiring graduate credit for summer work must enroll with the Dean of the Graduate School. In determining residence, two summer sessions of eight weeks each will be considered the equivalent of one semester. It is thus possible to satisfy the minimum residence requirement for a master's degree in four summer sessions.

Degrees are conferred only once a year. Students who finish their work for a master's degree in the summer session, will participate in the commencement exercises of the following June, at which time the degree will be conferred.

EXTENSION

The University offers no graduate work by extension and it does not accept any from other institutions. A graduate student who has done satisfactory work in residence may enroll for his thesis or a problem course not to exceed two credit hours, and complete the work by conferences with his instructor, while engaged in teaching or some other activity, provided the consent of the major professor concerned has been obtained.

FIELD SESSION

Graduate students in the field sessions are subject to the same regulations as are students in the summer session and receive credit for residence, with the following provisions: (1) Residence on the campus at Albuquerque shall not be reduced to less than one semester or two summer sessions; (2) Courses offered must have the approval of the Committee on Courses of Study; (3) The registrations must be approved by the Dean of the Graduate School.

SCHOOL OF AMERICAN RESEARCH AT SANTA FE

Graduate work in the School of American Research at Santa Fe shall be accepted for credit and residence on the same basis as work done in the field sessions.

DEGREES OFFERED

The degrees of Master of Arts and Master of Science are offered by the Graduate School. The degree of Master of Arts is conferred upon students who major in economics, education, English, history, Latin, political science, or Spanish. The degree of Master of Science is conferred upon students who major in biology or geology. The degree of Master of Arts or Master of Science, depending upon the

nature of the work or upon the choice of the student, is conferred upon students who major in anthropology, chemistry, mathematics, physics, or psychology.

ADMISSION TO CANDIDACY

Admission to candidacy for a master's degree is dependent upon (1) approval of the general undergraduate training, (2) sufficient prerequisites for the proposed graduate courses, (3) approval of the graduate program as outlined by the student in conference with the major professor, (4) certification by the head of the major department that satisfactory ability to do graduate work has been demonstrated.

Application for admission to candidacy must be made by the student at least one semester or two summer sessions before the degree is conferred.

FOREIGN LANGUAGE

It lies in the province of any department to require a reading knowledge of any language that is necessary for the work undertaken by a student. The departments of anthropology and archaeology, biology, geology, and mathematics require a reading knowledge of at least one foreign language approved by the head of the department.

THESES

As a part of his work, the candidate for a master's degree must submit to his major professor a thesis which shall give evidence of sound method and of capacity for research.

A tentative draft of the complete thesis should be presented to the major professor at least five weeks before the date at which the degree is to be conferred.

The completed thesis must be presented to the major professor at least two weeks before the date at which the degree is to be conferred.

The thesis must be read and approved by a committee of three members, one of whom shall be from a department other than the candidate's major.

The typewritten thesis approved by the three members of the committee and by the librarian must be deposited with the Dean of the Graduate School not less than one week before the date at which the degree is to be conferred.

EXAMINATION

A candidate for a master's degree must pass satisfactorily an oral examination in the major field and in other courses counted towards the degree. This examination must be taken at least one week before the date at which the candidate expects to receive the degree.

GRADUATE FELLOWSHIPS

Four to six fellowships, each with a stipend of \$400.00 are available to graduate students. Holders of these fellowships are expected to perform certain services as teachers or laboratory assistants in the departments to which they are assigned. This department must be the major department of graduate study, and each holder of a fellowship will be required to pursue advanced courses in the department during his term as a fellow.

Correspondence in regard to fellowships should be addressed to the head of the department in which the candidate proposes to do his major work.

COURSES IN DEPARTMENTS OF INSTRUCTION

Courses numbered 1-50 are normally open to freshmen; 51-100 to sophomores; 101-200 to juniors, seniors, and graduates; 201-300 to graduates only. Odd-numbered courses are usually offered in the first semester, even-numbered courses in the second.

DEPARTMENT OF ARCHAEOLOGY AND ANTHROPOLOGY

EDGAR L. HEWETT, D.Soc., LL.D., L.H.D., Professor

MAMIE TANQUIST MILLER, Ph.D., Assistant Professor

*CLYDE KAY M. KLUCKHOHN, B.A. (Oxon.), Assistant Professor

REGINALD G. FISHER, M.A., Assistant Professor

DONALD D. BRAND, Ph.D., Assistant Professor

FLORENCE M. HAWLEY, Ph.D., Instructor

*PAUL WALTER, JR., M.A., Part-time Instructor

MARJORIE FERGUSON TICHY, M.A., Special Instructor

BERTHA P. DUTTON, Student Assistant

LANSING B. BLOOM, M.A., Associate Professor of History

KENNETH CHAPMAN, Special Instructor in Indian Art

WILLIAM E. BURKE, B.F.A., Special Instructor in Architecture

GROUP REQUIREMENTS. Lower division courses in anthropology and archaeology, with the exception of courses 25, 38, 40, and 100, are accepted toward fulfillment of the requirement in Group III.

MAJOR STUDY. Thirty hours including Anthropology 1, 2, and 193. Biology 2 or 11 and Geology 1 and 2 are also required. Students will normally be expected to attend at least one field session. Students are advised to secure a reading knowledge of Spanish, and also, if possible, of French and German. Students preparing themselves for graduate work in physical anthropology are advised to take

*On leave of absence, 1934-1935.

Biology 53, 56, 121, and 190; for those preparing for graduate or professional work in archaeology, Geology 51, 52, 109, and 111 are recommended.

MINOR STUDY. Eighteen hours including Anthropology 1 and 2.

GRADUATE WORK. The undergraduate prerequisites for the Master of Arts degree with a major in archaeology or anthropology are an undergraduate major in archaeology and anthropology or its equivalent and a knowledge of the elements of biology and geology. A reading knowledge of Spanish, German, or French will be required of all candidates for the master's degree.

RELATED COURSES. Attention is called to the following related courses in other departments:

- I. To students whose major interest is archaeology, the following courses are especially recommended: Civil Engineering 55 and 56 (Elementary Surveying); Geology 51 (Mineralogy), 52 (Determinative Mineralogy), 105 (New Mexico Geology), 109 and 110 (Stratigraphy); Chemistry 1 and 2 (Inorganic); and Art 53 and 54 (Architectural History), 55 and 56 (Drawing). The following courses are recommended: Civil Engineering 108, 112, 115, 157, and 169; Geology 106, 108, 111, and 112; Chemistry 51 and 52; Art 83; and German 62.
- II. To students whose major interest is ethnology and culture history, the following courses are especially recommended: Biology 52 (Ethno-biology); English 91 (History of the English Language); History 81 (History of Greece), 82 (History of Rome); Geology 54 (Geography of North America); Government 61 (Nature and Sources of Law); Spanish 115 (Southwestern Folklore); 182 (Mexican Civilization); Philosophy 62 (History of Western Thought); and Psychology 51 (General), 52 (Fields of Psychology). The following courses are also recommended: Biology 198; Economics

105; Education 101; English 57, 88, 95, and 96; History 21, 22, 175, and 176; Government 1, 2, and 62; German 62; Spanish 116, 153, 161, and 162; Psychology 198; and Mathematics 11 and 12.

- III. To students whose major interest is in physical anthropology, the following courses are especially recommended: Biology 36 (Human Physiology), 56 (General Embryology), 121 (Comparative Vertebrate Anatomy), and 190 (Human Anatomy and Kinesiology). The following courses are also recommended: Biology 81, 93, 114, and 141; German 62; Mathematics 11, 12, 53, 54, and 131; and Economics 109.

FACILITIES AND EQUIPMENT. The Southwest affords exceptional opportunities for the study of the sciences of man. Here may be seen, in type, the panorama of mankind. The kind of thing which built up the great civilizations of the Old World, which forms the outlines of all human history, is here in living actuality, past and present united in a single cultural expression. All the elements of a definite physiographic environment in relation to cultural evolution exist undisturbed and easily accessible. All the factors in culture history—industrial, esthetic, social, linguistic, religious—may be studied in clear survivals in Pueblo Indian villages. The essential problems of American archaeology may be investigated by the excavation of ruin mounds scattered over the Southwestern plateau and by the study of surviving tribes. The collections and equipment of the School of American Research of the Archaeological Institute of America and the Museum of New Mexico are at the disposal of all the students of the University of New Mexico for graduate work.

FIELD SESSIONS. The summer field sessions, in cooperation with the School of American Research of the Archaeological Institute of America, are a unique feature of this department. During the month of August, a class, open to graduates and undergraduates, is held at Bat-

bleship Rock Camp in the Jemez Mountains. Here students witness and participate in the excavations and carry a full program of lecture, seminar, and field laboratory work. A class of graduate and advanced undergraduate students works, during the summer, in Chaco Canyon and other archaeological sites of the Southwest, on the excavation of ancient ruins and the study of Southwestern archaeological problems, and receives intensive instruction and training in field technique. By arrangement with the director, students assist in excavations and pursue independent studies. Classes of not to exceed twenty students go to Middle America for summer sessions of six weeks. They explore historic and prehistoric ruins, witness whatever excavations may be in progress, study in the museums and libraries, and pursue seminar courses for graduate and advanced undergraduate students. The classes may hold sessions in Mexico, Guatemala, or other Central American countries, or in South America. Graduate credit in field sessions is limited to one hour a week. Field classes are open to students who satisfy the undergraduate or graduate admission requirements of the University of New Mexico. (See Field Sessions Bulletin.)

PRIMARILY FOR FRESHMEN AND SOPHOMORES

1. **General Anthropology.** Man's origin, antiquity, evolution, dispersion, variations, and present development. 3 credit hours.
2. **General Anthropology.** Development of man's arts, industries, social structure, language, beliefs, and ceremonies. Continuation of Anthropology 1. Prerequisite: Anthropology 1. 3 credit hours.
3. **Anthropo-geography.** The inter-relationships of man and the earth. Development of the cultural landscape out of the natural landscape. 3 credit hours.
4. **Anthropo-Geography.** Continuation of Anthropology 3. 3 credit hours.
25. **Indian Art.** (Same as Art 25.) A study of the origin, development, and symbolism of the decorative art of the Pueblos

and other Indian tribes from the earliest prehistoric times to the present. 2 credit hours. Fee \$4.00.

30. **Archaeological Sketching and Modeling.** A course designed to equip the student to make finished sketches, drawings, and models for the presentation of archaeological subjects. Pencil, pen and ink, watercolor, and plaster will be used. 3 credit hours.
38. **Museum Technique.** Practical work in pottery mending and restoration; treatment of cultural material from the excavations. 2 credit hours. Fee \$1.00.
40. **Museum Technique.** Continuation of Archaeology 38. 2 credit hours. Fee \$1.00.
41. **Elementary Sociology.** Population and society, conditions of socialization, social classes, basic facts of social organization, early history of society, conditions of social progress. Repeated second semester. 3 credit hours.
62. **Archaeology of the Southwest.** The ancient communities of the Pueblo Plateau interpreted through the study of the physiographic conditions, the ancient cultural remains, and the surviving Pueblo Indians. Prerequisites: Anthropology 1 and 2 or consent of the instructor. 3 credit hours.
72. **Geography and Archaeology of Northern Mexico.** Land forms, climates and vegetation composing natural scene in Northern Mexico. Study of the occupance sequences as expressed in archaeologic horizons. 3 credit hours.
75. **Field Session Course I.** A summer course in archaeology and ethnology, consisting of lectures, excavations, and field methods, held annually during the month of August at Battleship Rock Camp in the Jemez Mountains with the School of American Research and the University of Southern California. Prerequisites: Anthropology 1 and 2 or the equivalent or consent of the director. 4 credit hours. (See Field Sessions Bulletin.)
80. **Recent Sociological Trends.** A study of the literature and thought in the American sociological field since Franklin H. Giddings and Lester F. Ward. Prerequisite: Anthropology 41. 3 credit hours.
81. **Ethnology of the Southwest.** The Indians of the Southwest, their culture history, development, and changes of their arts and industries; social and ceremonial life and beliefs; inten-

- sive study of one pueblo. Prerequisites: Anthropology 1 and 2. 3 credit hours.
82. **Social Anthropology.** Primitive society, social organization, religion, law; a study of certain types and areas. Prerequisites: Anthropology 1 and 2. 3 credit hours.
95. **Field Laboratory Course.** Excavation methods, stratigraphic studies, mapping, recording, field cataloging. May be taken any semester or in summer session. Prerequisites: Anthropology 1 and 2 and Archaeology 62. 2-6 credit hours.
97. **Classical Archaeology.** The principal archaeological sites in Greece and the Aegean region. Development of Greek sculpture. Roman sculpture. Given the first semester of even-numbered years. Prerequisites: Anthropology 1 and 2 or the consent of the instructor. 2 credit hours.
99. **Races and Culture of Europe.** Races, cultural characteristics, and nationalities of modern Europe. Occupational condition and historical evolution of culture areas. Prerequisites: Anthropology 1 and 2. 2 credit hours.
100. **Archaeological Surveys.** (Formerly Cartography.) For students majoring in archaeology or expecting to work in the field classes. Prerequisite: Archaeology 62 or equivalent. 2 credit hours.

FOR JUNIORS, SENIORS, AND GRADUATES

101. **Culture Growth.** The nature of culture, contemporary society as a culture phenomenon, methods of inferring culture development, diffusion, independent origin, assimilation of culture traits, the criteria of culture growth. Prerequisite: Anthropology 81 or 82 or the consent of the instructor. 3 credit hours.
102. **Prehistory.** Early types of man. Development as shown in physical and cultural remains. Dispersion: factors that have determined the major lines of migration. Elements of human geography. Prerequisite: Archaeology 62, 97, or 99, or consent of the instructor. 3 credit hours.
103. **Chronology in Archaeology.** Consideration and evaluation of methods applicable to chronological studies in prehistory. 2 credit hours.
104. **Dendrochronology.** The science of tree ring studies applied to archaeological problems. Prerequisite: Anthropology 103. 3 credit hours.

COURSES IN DEPARTMENTS OF INSTRUCTION [145

105. **The American Indian.** A study of aboriginal peoples and cultures in the Americas, showing their geographical and chronological relationships. Correlation of the culture horizons of the western and eastern hemispheres. Prerequisites: Anthropology 1 and 2. 3 credit hours.
107. **Physical Anthropology.** Anatomical characters of man and other primates: identification of bones. Elements of anthropometry. Prerequisites: Anthropology 1 and 2, Biology 2 or 11, 56, 121, or the consent of the instructor. 3 credit hours. Fee \$2.00.
108. **Physical Anthropology.** Continuation of Anthropology 107. Fossil and contemporary races of men. Anthropometry. Prerequisite: Anthropology 107. 3 credit hours. Fee \$2.00.
109. **Criminology.** The social significance of crime and criminals, historical methods of dealing with criminals, causes and treatment of crime. Present trends in the study of crime, legislation, prison systems, and crime prevention. 3 credit hours.
110. **Southwestern Pottery.** Historical development of ceramic art in the Southwest. 2 credit hours.
125. **History of the Southwest: The Spanish Period.** (Same as History 125.) 3 credit hours.
138. **Museum Technique.** An advanced laboratory course in cleaning, identifying, labeling, recording, and filing cultural and skeletal material derived from the excavations. Prerequisites: Anthropology 1 and 2, Archaeology 62 or equivalent, and one Field Course. 2-4 credit hours. Fee \$1.00.
142. **Advanced Sociology.** Social evolution, sociology and related sciences, social laws and processes, methods and problems, conditions of research. Prerequisite: Anthropology 41 or equivalent. 3 credit hours.
143. **Primitive Arts and Crafts.** An account of the material culture of primitive peoples, dealing with such matters as foods, drugs, stimulants, ornaments, types of habitation, etc. The psychology of invention; variations and mutations; origin, history, and distribution of fundamental primitive arts and crafts. Prerequisites: Anthropology 81 and 82 or consent of the instructor. 3 credit hours.
- 151a,b. **Problems.** Individual investigations in archaeology or anthropology for upper division students. Prerequisites: Anthropology 1 and 2. 1-4 credit hours.

154. **Climatic Factors in Anthropology.** A study of climate and its fluctuations throughout the human epoch, and how these have affected human development. Prerequisites: Anthropology 1, 2, 102. Geology 53 is suggested. 3 credit hours.
160. **Archaeology of Middle America.** The Toltec, Aztec, Maya, and related cultures of Mexico and Central America, and of the Inca and Pre-Inca civilizations of Peru and Bolivia. Prerequisite: Archaeology 62 or the consent of the instructor. 3 credit hours.
162. **Archaeology of the Old World.** An interpretation of Old World civilizations through the ancient remains, embracing Egypt and other parts of Northern Africa, Mesopotamia, Persia, Syria, Palestine, Asia Minor, Greece, Italy. Prerequisites: Anthropology 1 and Archaeology 62 or consent of the instructor. 3 credit hours.
175. **Field Session Course II.** Summer course, advanced division, in archaeology and ethnology, consisting of seminars, excavation, and field laboratory work during the month of August at Battleship Rock Camp in the Jemez Mountains with the School of American Research and the University of Southern California. Prerequisite: Anthropology 75 or consent of the director. 4 credit hours. (See Field Sessions Bulletin.)
182. **American Archaeology.** Research course. Study of the archaeological work of the Southwest and northern Mexico from the earliest explorations and excavations. The foundations of the science. Prerequisites: Anthropology 1 and 2, Anthropology 81 and Archaeology 62. 2-4 credit hours.
188. **Cultural Geography of the World.** Natural divisions of the world and their utilization under different cultural systems. 2 credit hours.
190. **Social Organization.** A study of the social organization of primitive peoples, discussing such problems as the cultural and psychological factors of family life; the origin of clans; the influence of economic factors on social institutions. Prerequisites: Anthropology 41, 81, and 82. 3 credit hours.
193. **Archaeology Seminar.** History of anthropology with special attention to methodological development. 3 credit hours.
194. **Seminar in Southwestern Archaeology.** Current archaeological work and theories. Survey of the excavations, reports,

COURSES IN DEPARTMENTS OF INSTRUCTION [147

and interpretations of the past twenty-five years. 3 credit hours.

- 195. **Field Session Course III.** Summer field course in Mexico, Guatemala, or South America; seminar, library, and museum work, study at archaeological sites and excavations. Prerequisites: Anthropology 62 or the equivalent, Anthropology 75 or 175, or consent of the instructor. 6 credit hours. (See Field Sessions Bulletin.)
- 197. **World Ethnology.** A comparative study of the environment and culture of four to six great ethnic groups, as Arab, Mongol, Hindu, American Indian. 3 credit hours.
- 198. **History of Religions.** A study of primitive beliefs and consequent evolution of the world religions. 3 credit hours.
- 199. **Field Session Course IV.** Summer field course in Chaco Canyon or at other Southwestern sites. Prerequisites: Archaeology 62 or the equivalent, Anthropology 75 and 175 or 195. 2-6 credit hours. (See Field Sessions Bulletin.)

FOR GRADUATES ONLY

- 225. **Advanced Anthro-po-geography.** The origins and spread of domesticated plants and animals. Rural settlement patterns. 2 credit hours.
- 251 a, b. **Problems.** 1-4 credit hours.
- 260. **Advanced Dendrochronology.** A laboratory course for those seriously interested in tree ring studies. Prerequisite: Archaeology 104. Registration by consent of the instructor. 3 credit hours.
- 295. **Seminar: Climate in Human Relations.** It will be the purpose of the seminar to extend the knowledge of the function that climate has in the organic and the super-organic realms. Prerequisite: Anthropology 154. 2 credit hours.
- 297-298. **Seminar: American Ethnology.** Investigations of selected topics, reports and discussions; designed to offer training in investigation of ethnological problems and practice in the handling of original material. 3 credit hours.
- 299. **Research in Ethnology.** 2-4 credit hours.
- 300. **Thesis.** 2-6 credit hours.

DEPARTMENT OF ART

*DOROTHEA FRICKE, B.A.E., Instructor

DOROTHY LOIS HATCH, M.A., Instructor

WILLIAM EMMETT BURK, JR., B.F.A., Special Instructor in
Architecture

KENNETH CHAPMAN, Special Instructor in Indian Art

RALPH W. DOUGLASS, B.A., Special Instructor in Commercial Art

RAYMOND JONSON, Special Instructor in Drawing and Painting

MARY WILLS, B.A., Student Assistant

MAJOR STUDY. Art 15, 16, 55, 56, and twenty additional hours, twelve of which shall be in design, architectural design, commercial art, or sculpture. Students planning to concentrate in architecture may omit Art 15 and 16.

MINOR STUDY. Art 15, 16, and fifteen additional hours.

TEACHERS' COURSE. Students who wish to major in art and teach art should take Art 15, 16, 25, 55, 56, 91, 96, 133, 134, 141, and 142.

CONCENTRATION IN ARCHITECTURE. By taking a five-year course, with concentration in architecture, art majors may earn the Bachelor of Arts degree, and at the same time take sufficient professional work to be eligible for an architect's license in New Mexico, or to enter an advanced school of architecture upon advantageous terms. Such students will meet the usual departmental, college, and university requirements, except that Art 15 and 16 may be omitted, and the completion of one group requirement may be postponed until the third year. In preparing their programs, such students should consult with the instructor in architecture, the head of the Department of Art, and the dean of the Colleges of Arts and Sciences.

SCHOOL OF PAINTING AT TAOS. From June 17 to July 27, 1935, a painting class will be taken to Taos. The following Taos artists will act as critic teachers for this class: Kenneth Adams, Oscar E. Berninghaus, Ernest L. Blumen-

*On leave of absence, 1934-1935.

schein, W. Victor Higgins, Ward Lockwood, Bert Phillips, Joseph Henry Sharp, and Walter Ufer. Students who return for a second and third year in this class may have all of their criticisms from some one of the critic artists. The tuition is \$35.00 with an additional \$5.00 for those who have not previously matriculated in the University of New Mexico. Application for membership in this class should be made to the Registrar of the University and a deposit of \$5.00 should be made before the first of June. For further information see circular, or address the Registrar, University of New Mexico.

INDIAN ART COURSE AT SANTA FE. From July 29 to August 24, 1935, Kenneth Chapman will conduct a course in Indian Art at the Laboratory of Anthropology at Santa Fe. The course will consist of daily lectures and research work in Indian design from the large Indian Arts Fund collection which is housed in the Laboratory of Anthropology. The tuition is \$15.00 with an additional \$5.00 for those who have not matriculated in the University of New Mexico. Application for membership in this class should be made to the Registrar of the University and a deposit of \$5.00 is required before the fifteenth of July. For further information see circular or address the Registrar, University of New Mexico.

MISCELLANEOUS. Students must furnish their own materials, except certain studio equipment provided by the University. All work when completed is under the control of the department until after the public exhibition of student work, which occurs at the close of the academic year. Each student may be required to leave with the department one or two pieces of original work. These are added to the permanent collection of the work of students.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

15. **Art Structure.** A study of the principles of composition, design, and color to develop the power of appreciation and the ability to create good design. 3 credit hours. Fee \$6.00.

16. **Art Structure.** Practical application of the fundamental principles of perspective and of composition to drawing and design. Prerequisite: Art 15. 3 credit hours. Fee \$6.00.
25. **Indian Art.** A study of the origin, development, and symbolism of the decorative art of the Pueblos and other tribes from the earliest prehistoric times to the present. 2 credit hours. Fee \$4.00.
- 25 a. **Indian Art Course at Santa Fe.** The course will cover the origin and development of the decorative arts of the Pueblo Indians and other Southwestern tribes, from the earliest prehistoric times to the present. The program will consist of sixteen lecture hours and a minimum of thirty-two supervised laboratory hours devoted to the study of the thousands of specimens in the collections of the Laboratory of Anthropology, the Indian Arts Fund, and the State Museum. Trips will also be made to Indian pueblos for first hand study of Indian crafts as carried on today. 3 credit hours. (See special circular or address the Registrar, University of New Mexico.)
- 27-28. **Architectural Design.** Problems involving the use of architectural elements, exercises in architectural composition and rendering, and problems in the elementary design of the small ensemble and of architectural motifs. 3 credit hours each semester. Fee \$6.00 each semester.
52. **History of Sculpture.** Study of sculpture from ancient to modern times. Special attention is given to principles of construction and composition. 2 credit hours.
- 53-54. **Architectural History.** Ancient, Medieval, and Italian Renaissance. 2 credit hours each semester.
- 55-56. **Drawing.** Drawing from still life, posed models, and cast in charcoal and other mediums. 3 credit hours. Fee \$6.00 each semester.
- 57-58. **Architectural Design.** Continuation of 27-28. 3 credit hours each semester. Fee \$6.00 each semester.
- 63-64. **Water Color Painting.** Water color work from imagination, still life, landscape, and figure. Prerequisite: Art 16. 3 credit hours each semester. Fee \$6.00 each semester.
66. **Block Printing.** Design, cutting, and printing of linoleum blocks. Prerequisite: Art 16. 2 credit hours. Fee \$4.00.

COURSES IN DEPARTMENTS OF INSTRUCTION [151

- 71-72. **General Commercial Art.** Application of the principles of art in commercial use, touching on both the advertising and newspaper fields. All work is done as for reproduction. Prerequisite: Art 16. 3 credit hours each semester. Fee \$6.00 each semester.
75. **Spanish Colonial Crafts.** An introduction to the study of and actual work with the native raw materials of New Mexico, with emphasis on the revival of early Spanish designs and structures. The course will include leather work and tanning of hides, weaving of native textiles, making and carving furniture from native woods, and designing and constructing decorative tin work. 2 credit hours.
83. **Lettering.** A course intended to develop facility and grace in the common forms of artistic and commercial lettering. 1 credit hour. Fee \$2.00.
- 85-86. **Sculpture.** Modeling from the round, from the head, from the full length figure. Fundamentals of sound construction are given special attention, as well as casting and reproduction of individual pieces. 3 credit hours each semester. Fee \$6.00 each semester.
91. (Formerly 91 and 92.) **Art Education.** A course dealing with the general principles underlying art teaching and its relationship to progressive education. Methods of presentation with aims and outcomes. Lectures, discussions, outside reading, some practical problems in drawing, lettering, and crafts. 3 credit hours.
96. **Art Appreciation.** A study of the fundamental principles underlying all forms of art, both ancient and modern, including the crafts, industries, architecture, sculpture, and painting. Lectures, outside readings, notebooks. 2 credit hours.
98. **Taos School of Painting.** For beginning students of painting. Maximum, 5 credit hours. (See special circular or address the Registrar, University of New Mexico.)

FOR JUNIORS AND SENIORS

- 115-116. **Oil Painting.** Work from landscape, still life, and posed models. Prerequisites: Art 16 and 56. 3 credit hours each semester. Fee \$6.00 each semester.
125. **Indian Art.** Prerequisite: Art 25. 2 credit hours. Fee \$4.00.

- 125 a. **Indian Art Course at Santa Fe.** Advanced work for students who have taken 25 or 25a. 3 credit hours. (See special circular or address the Registrar, University of New Mexico.)
- 127-128. **Architectural Design.** Continuation of 57-58. 3-6 credit hours each semester. Fee \$2.00 per credit hour.
- 131-132. **Decorative Design.** Advanced problems in design. Prerequisites: Art 16 and 56. 3 credit hours each semester. Fee \$6.00 each semester.
- 133-134. **Applied Design.** Study of design and its practical application to stenciling, decorating leather, batik, and other crafts problems. Prerequisite: Art 1. 3 credit hours each semester. Fee \$6.00 each semester.
141. **History of Painting.** Study of the work of principal painters of various countries. 2 credit hours.
142. **History of the American Arts.** Study of the work of the principal American artists and craftsmen from the earliest to the present time. 2 credit hours.
148. **Taos School of Painting.** For advanced students of painting. Maximum, 5 credit hours. (See special circular or address the Registrar, University of New Mexico.)
- 153-154. **Architectural History.** A continuation of courses 53-54. 2 credit hours each semester.
- 155-156. **Drawing.** Continuation of Art 55-56. Prerequisite: Art 56. 3 credit hours each semester. Fee \$6.00 each semester.
- 161-162. **Painting.** Continuation of Art 115-116. Prerequisite: Art 116. 3 credit hours each semester. Fee \$6.00 each semester.
- 163-164. **Water Color Painting.** Continuation of Art 63-64. Prerequisite: Art 64. 3 credit hours each semester. Fee \$6.00 each semester.
167. **Costume Design.** A study of historic dress and of the principles underlying the designing of costume. Problems in selecting and designing. Prerequisites: Art 15, and 55 and 56 if possible. 3 credit hours. Fee \$6.00.
168. **Interior Decoration.** Principles and practice of interior decoration. Drafting and making interior sketches in color. Prerequisites: Art 15 and 16. 3 credit hours. Fee \$6.00.
- 171-172. **Advertising Problems.** The student is given the text and description of advertisements exactly as they would come to

the artist in an advertising agency. He works these out from rough layout to finished engraver's drawing. Criticism and progress are individual. Prerequisites: Art 71 and 72. 2 or 3 credit hours each semester. Fee \$2.00 per credit hour.

- 185-186. **Sculpture.** Continuation of Art 85-86. 3 credit hours each semester. Fee \$6.00 each semester.
- 191. **Seminar.** 2-3 credit hours. Fee \$2.00 per credit hour.
- 192. **Problems.** 2-3 credit hours. Fee \$2.00 per credit hour.
- 198. **Taos School of Painting.** For students who return to Taos for a third summer for study under one of the Taos critic artists. Maximum, 5 credit hours. (See special circular or address the Registrar, University of New Mexico.)

DEPARTMENT OF BIOLOGY

EDWARD FRANKLIN CASTETTER, Ph.D., Professor
 FRED W. ALLEN, Ph.D., Assistant Professor
 WILLIS H. BELL, Ph.D., Assistant Professor
 WALDEMAR SCHAEFER, B.S., Graduate Fellow
 MARJORIE VAN CLEAVE, B.S. in Educ., Graduate Fellow
 ROY BARKER, Student Assistant

The Department of Biology offers instruction in many lines of scientific endeavor pertaining to plant and animal life. The work is organized with four purposes: to provide cultural training for students majoring in liberal arts subjects other than biology, to furnish pre-medical instruction, to provide foundation work for home economics and physical education majors, and for students whose major interest is biology. The training prepares students to teach biology and for research in various phases of the subject.

MAJOR STUDY. Courses 1 and 2, or 11 and 12, and 53, 93, 109, 110, 134, 198, and two additional hours above 100. Chemistry 1 and 2 and Mathematics 53 and 54 are strongly recommended. Courses 31, 36, 41, and 48 are not acceptable as credit toward the major.

MINOR STUDY. Courses 1 and 2, or 11 and 12, together with 12 additional hours to be selected from the following: 31, 36, 41, 48, 52, 53, 58, 63, 93, 109, and 110.

EQUIPMENT. The Biology Building contains two large general laboratories, a laboratory for advanced classes, a research laboratory, lecture rooms, and a germinating room. The laboratories are well fitted with standard equipment and apparatus of the most modern type.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

1. (Formerly 5.) **General Biology.** A survey of the field of biology, emphasizing fundamental principles common to all living things. Phases of biology are considered which are of the greatest cultural value in contributing to a liberal education for the general student. Three lectures and one laboratory period per week. 4 credit hours. Fee \$1.00.
2. (Formerly 6.) **General Biology.** This is a continuation of course 1. Three lectures and one laboratory period per week. 4 credit hours. Fee \$1.00.
11. (Formerly 1.) **General Zoology.** For pre-medical students and home economics majors. Designed to acquaint the student with the fundamental structures, processes, and principles of animal life and provide training in laboratory methods. Two lectures and two laboratory periods per week. 4 credit hours. Fee \$6.00.
12. (Formerly 14.) **General Botany.** Activities and structures of the flowering plant. Type representatives of the four great groups of the plant kingdom are studied, and underlying principles of plant life considered. Two lectures and two laboratory periods per week. 4 credit hours. Fee \$6.00.
31. **Principles of Plant Distribution.** A study of the plant formations of the world and consideration of climatic conditions influencing the distribution of these formations. Two lectures per week. 2 credit hours.
36. **Human Physiology.** A lecture course especially designed to cover the more fundamental physiological activities of the human body. Two lectures per week. 2 credit hours.
41. **Survey of New Mexico Plant Life.** A course designed by lecture and demonstration to acquaint the general student with the plant life of the State. Two lectures per week. 2 credit hours.
48. **Heredity.** A cultural survey of the field of inheritance, considering the elementary principles and their general bearing

on inheritance in plants, animals, and man. Two lectures per week. 2 credit hours.

52. **Ethnobiology.** A study of the plants and animals used by the Indians and Spanish-Americans of Southwestern United States for food, drink, medicine, clothing, tanning and dyeing, ceremony, etc. Also a consideration of the plants and animals used as foods by ancient civilizations. Two lectures per week. 2 credit hours.
53. (Formerly 54.) **General Physiology.** A consideration of the fundamental processes of the animal body as applied to the human. The laboratory work consists of experiments designed to demonstrate the various functions of the human body. Prerequisites: Biology 1 and 2, or 11 and 12, and Chemistry 1 and 2. (Neither Biology 1 nor 12 is required of students completing the physical education or home economics curricula.) Two lectures and two laboratory periods per week. 4 credit hours. Fee \$6.00.
56. (Formerly 55.) **General Embryology.** A study of the changes which take place in the embryo from the time of fertilization until birth. Emphasis on human development. Prerequisite: Biology 53. Two lectures and two laboratory periods per week. 4 credit hours. Fee \$6.00.
58. **General Entomology.** A study of insects with reference to structure, habits, life history, and classification. Prerequisite: Biology 2 or 11. Two lectures and two laboratory or field periods per week. 4 credit hours. Fee \$2.00.
63. **Flora of New Mexico.** Identification of plants, training in the use of the manual, consideration of the more characteristic types of vegetation of the State. Prerequisite: Biology 1 or 12. Two lectures and two laboratory or field periods per week. 4 credit hours. Fee \$1.00.
81. (Formerly 111 and 112.) **Medical Zoology.** A study of animals that cause disease in man, their life histories, diagnoses, clinical symptoms, and prevention. Prerequisites: Biology 1 and 2 or 11 and 12, and 53. Two lectures and two laboratory periods per week. 4 credit hours. Fee \$6.00.
93. **General Bacteriology.** Activities of bacteria, yeasts, and moulds in relation to the health of man, animals, and plants involving the problems of the home and community. Prerequisites: Biology 1 and 2 or 11 and 12. (Neither Biology 1 nor

12 is required of students completing the physical education or home economics curricula.) Two lectures and two laboratory periods per week. 4 credit hours. Fee \$6.00.

FOR JUNIORS AND SENIORS

109. **Genetics.** Modern conceptions of genetics, including Mendelism, linkage, mutation, selection, inbreeding, disease resistance, and biometry. Also designed to stimulate the broader cultural and philosophical aspects of this biological science. Prerequisites: Biology 1 and 2 or 11 and 12. Three lectures per week. 3 credit hours.
110. (Formerly 99.) **Evolution.** History of the principle of evolution from the time of the Greeks to the present and the various developments resulting from investigations of modern science. Factors and problems in organic evolution, heredity, variation, origin, and distribution of life. Prerequisite: Biology 109. Three lectures per week. 3 credit hours.
114. (Formerly 123.) **Animal Histology.** A microscopic study of animal tissues and organs. Prerequisite: Biology 56. Two lectures and two laboratory periods per week. 4 credit hours. Fee \$6.00.
121. (Formerly 122.) **Comparative Vertebrate Anatomy.** A study of representative vertebrates from a comparative point of view. Prerequisite: Biology 56. Two lectures and two laboratory periods per week. 5 credit hours. Fee \$6.00.
132. **Advanced Bacteriology.** A combined study of laboratory methods in diagnosis of disease and immunity. Prerequisite: Biology 93. Two lectures and two laboratory periods per week. 4 credit hours. Fee \$6.00.
134. (Formerly 64.) **Plant Physiology.** A study of the plant processes, growth, photosynthesis, translocation, storage, digestion, respiration, assimilation, and reproduction. Prerequisites: Biology 1 and 2 or 11 and 12, 53, and Chemistry 1 and 2. Two lectures and two laboratory periods per week. 4 credit hours. Fee \$6.00.
141. **Histological Technique.** Methods of fixing, imbedding, sectioning, and staining animal or plant tissues for microscopic study. Prerequisite: registration for this course by permission only. 3 credit hours. Fee arranged.
171. **Physiographic Ecology.** Distribution of plants in relation to topographic and climatic factors. Prerequisites: Biology 63

- and 134. Three lectures and one laboratory period per week. 4 credit hours. Fee \$2.00.
174. (Formerly 154.) **Plant Anatomy.** Detailed consideration of cells and tissues of root, stem, leaf, and reproductive structures of higher plants. Prerequisite: Biology 134. Two lectures and two laboratory periods per week. 4 credit hours. Fee \$6.00. (Offered in alternate years with Biology 184.)
184. **Plant Pathology.** The nature, cause, and control of diseases of plants. The relations of plant pathogenic organisms to agriculture, home economics, and industry. Laboratory cultural methods, inoculation, symptoms, host relations, and environmental influences will be considered. Prerequisites: Biology 93 and 134. Two lectures and two laboratory periods per week. 4 credit hours. Fee \$6.00. (Offered in alternate years with Biology 174.)
190. (Formerly 112.) **Human Anatomy and Kinesiology.** A study of the gross anatomy of the human body. Emphasis will be placed upon the arrangement, function, and behavior of the muscles. Prerequisite: Biology 121. Two lectures and two laboratory periods per week. 4 credit hours. Fee \$8.00.
191. **Laboratory Methods.** Practice in hospital laboratory technique. Prerequisites: Biology 53, 81, and 132 and permission of professor in charge. Three laboratory periods per week. 3 credit hours.
198. **Fundamental Concepts of Biology.** A consideration of the trend of scientific thought and method from the time of the early Egyptians and Babylonians to the present. Special emphasis on the philosophic aspects of biology. Prerequisite: major in the department with senior standing. 4 credit hours.
- 199 a, b. (Formerly 146.) **Problems.** Individual investigation in zoology or botany for properly qualified upper classmen. Prerequisite: registration for this course by permission only. 2-4 credit hours. Fee arranged.

FOR GRADUATES ONLY

- 201 a, b. **Seminar.** Meetings of the biology staff and graduate students to discuss recent literature, research problems, and other topics of biological interest. 2-4 credit hours.
- 251 a, b. **Problems.** 2-4 credit hours. Fee arranged.
- 261 a, b. **Research in Botany.** 2-4 credit hours. Fee arranged.

271 a, b. Research in Zoology. 2-4 credit hours. Fee arranged.

281 a, b. Research in Bacteriology. 2-4 credit hours. Fee arranged.

300 a, b. Thesis. 2-6 credit hours. Fee arranged.

BUSINESS ADMINISTRATION

See Economics and Business Administration.

DEPARTMENT OF CHEMISTRY

JOHN D. CLARK, Ph.D., Professor

VEON C. KIECH, Ph.D., Associate Professor

*S. B. LIPPINCOTT, M.S., Instructor

CHARLES LE ROY GIBSON, B.S., Assistant

HORACE GARDNER, Stockroom Assistant

BODIE PRYOR, Stockroom Assistant

MAJOR STUDY. Courses 1, 2, 51, or the equivalent and twenty-four additional hours including course 52 or its equivalent; except that, in the discretion of the professor in charge of the department, credits in excess of eight hours in courses 1, 2, and 51 may be counted among the twenty-four additional hours. A comprehensive examination is given before graduation.

MINOR STUDY. Twelve hours above courses 1 and 2, including 51 and 52. In addition to these, courses 102 and 103 are recommended. A comprehensive examination may be required.

EQUIPMENT. The Department of Chemistry is housed in the Chemistry Building, a thoroughly modern, strictly fireproof structure. It is equipped to handle 240 students. A large freshman laboratory, a laboratory for qualitative analysis, and a quantitative and organic laboratory occupy the larger portion of the building. A chemistry reading room, a balance room, offices, stockroom, laboratories and apparatus room, and a recitation room make up the remainder of the building. Work benches equipped with gas and water are in the patio, so that students may do much

*On leave of absence, 1934-1935.

of the ill-smelling laboratory work in the open air. The laboratories are equipped with the usual apparatus needed in the study of chemistry in the various branches.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

1. **Inorganic Chemistry.** Lectures, demonstrations, and recitations on general and theoretical chemistry. 3 credit hours.
- 1a,b,c,d. **Inorganic Laboratory.** One period per week. 1 credit hour. Credit suspended if student fails to pass Chemistry 1. Fee \$3.00.
2. **Inorganic Chemistry.** Course 2 is a continuation of 1. Prerequisite: Chemistry 1. 3 credit hours.
- 2a,b,c,d. **Inorganic Laboratory.** One period per week. 1 credit hour. Credit suspended if student fails to pass Chemistry 2. Fee \$3.00.
4. **Survey of Chemistry.** Lectures, demonstrations, recitations, and reading assignments designed to acquaint the student with the service of science, chemistry in particular, to mankind. This course is not intended to be a substitute for Chemistry 1, which is required of those who are to pursue any scientific work beyond the beginning courses, but is valuable for those whose major courses are not in scientific fields. Those who take Chemistry 1, 2, 4, and 5 are allowed a maximum of 12 hours credit. 3 credit hours. Fee \$1.00.
5. **Survey of Chemistry.** A continuation of Chemistry 4. 3 credit hours. Fee \$1.00.
51. **Qualitative Analysis.** Lectures and recitations on the theories of the work. Prerequisites: Chemistry 1 and 2. 3 credit hours.
- 51 a. **Qualitative Laboratory.** Two laboratory periods per week. 2 credit hours. Fee \$5.00.
52. **Gravimetric Quantitative Analysis.** Prerequisite: Chemistry 51. Laboratory eight hours per week. 4 credit hours. Fee \$8.00.
55. **Quantitative Analysis for Pre-medical Students.** Prerequisite: Chemistry 51. 3-5 credit hours. Fee \$2.00 per credit hour.

68. **Introduction to Physiological Chemistry.** Chemistry of foods. Required of all home economics majors. Laboratory work and lectures on the chemistry of foods and their metabolism. Prerequisites: Chemistry 1 and 2. 3 credit hours. Fee \$5.00.

FOR JUNIORS, SENIORS, AND GRADUATES

101. **Volumetric Quantitative Analysis.** Laboratory six hours per week. 3 credit hours. Fee \$6.00.
102. **Organic Chemistry.** A study of the chemistry of the carbon compounds. Prerequisites: Chemistry 1, 2, and 51 and 51a. Two lectures and two laboratory periods per week. 4 credit hours. Fee \$5.00.
103. **Organic Chemistry.** A continuation of Chemistry 102. 4 credit hours. Fee \$5.00.
104. **Organic Synthesis.** A continuation of Chemistry 2. For chemistry majors. Laboratory work four hours per week. 2 credit hours. Fee \$5.00.
105. **Quantitative Biochemical Methods.** Laboratory practice in colorimetry and micro-methods of analysis. Prerequisites: Chemistry 52 or 55, and 102. 3 credit hours. Fee \$6.00.
110. **Physical Chemistry.** Advanced study of chemical theory. Prerequisites: Chemistry 102 and 103. 4 credit hours.
- 110 a. **Physical Chemistry Laboratory.** One period per week. 1 credit hour. Fee \$2.00.
112. **Industrial Chemistry.** Lectures on chemical industry. Prerequisite: Chemistry 51. 2 credit hours.
113. **Metallurgy.** Lectures describing processes of extraction of metals. Prerequisites: Chemistry 51 and 112. 2 credit hours.
140. **Chemistry Seminar.** 1 or more credit hours.
152. **Advanced Quantitative Analysis.** Stress is laid on the use of instruments of analytical chemistry. Credit optional up to 10 hours. Fee \$2.00 per credit hour.
155. **Introduction to Toxicology.** A study of poisons and their detection. 2 credit hours. Fee \$4.00.

FOR GRADUATES ONLY

300. **Thesis.** 2-6 credit hours.

DEPARTMENT OF ECONOMICS AND BUSINESS
ADMINISTRATION

VERNON G. SORRELL, Ph.D., Professor

TOM L. POPEJOY, M.A., Assistant Professor

WALTER B. MCFARLAND, M.B.A., Instructor

WENDELL MILLER, Part-time Student Assistant

GROUP REQUIREMENTS. Courses 30, 43, and 55 are accepted toward the requirements of Group III.

MAJOR STUDY. Course 55 and twenty-four additional hours, including course 160, and exclusive of courses 30 and 43.

MINOR STUDY. Course 55 and twelve additional hours, exclusive of courses 30 and 43.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

- 30. **Economic History of the United States.** A review of the development of the American economic organization. Does not count toward fulfilling major or minor requirements. No prerequisite. 3 credit hours.
- 43. **Economic Resources.** A general survey of the basic economic resources of the world, with special reference to the Southwest of the United States. Designed primarily for freshmen who intend to pursue further courses in the department. Does not count toward fulfilling major or minor requirements. No prerequisite. 3 credit hours.
- 53-54. **Principles of Accounting.** A general introduction to accounting principles and practice. Credit not given for either semester separately. Two recitations and one 2-hour laboratory period per week. 3 credit hours each semester.
- 55. (Formerly 51-52.) **Introduction to Economics.** A general introduction to the study of economic activity and to the principles that underlie such activity. A prerequisite to all advanced courses in the department unless otherwise indicated. To be given each semester. Required for a major or a minor. Prerequisite: sophomore standing. 5 credit hours.
- 61-62. **Business Law.** Contracts, negotiable instruments, agency, real property, partnership, sales, guaranty and suretyship, insurance. Prerequisite: sophomore standing. 3 credit hours each semester.

86. **Cost Accounting.** An introductory course to the general problem of cost allocation for the determination of the unit cost of the products, and the operating costs of the divisions within the factory organization. Prerequisites: Economics 53-54. 3 credit hours.

FOR JUNIORS, SENIORS, AND GRADUATES

- 103-104. **Advanced Accounting.** The preparation of balance sheets and financial statements, with an analysis of their component items. Prerequisites: Economics 53-54. 3 credit hours each semester.
105. **Principles of Economics.** A beginning course designed for upper division students who are not majors in the department. No prerequisites except upper division standing. 3 credit hours.
106. **Mathematics of Finance.** (Same as Mathematics 106.) Given by the Mathematics Department, but accepted toward the major in Economics and Business Administration. Prerequisite: Mathematics 15. 3 credit hours.
108. **Marketing.** The place of marketing in the economic system. Modern organization, institutions, and methods. Prerequisite: Economics 55 or 105. 3 credit hours.
109. **Statistics.** The collection, arrangement, and interpretation of statistical material relating to business operations. Prerequisites: Economics 55 or 105, and college or high school algebra. 3 credit hours.
110. **Corporation Finance.** The financial organization and policies of the modern corporation. Prerequisite: Economics 55 or 105. 3 credit hours.
111. **Money and Banking.** A study of money, banking, and foreign exchange, with special reference to the organization and operation of the Federal Reserve System. Some attention is given to foreign banking systems. Prerequisite: Economics 55 or 105. 3 credit hours.
141. **Labor Problems.** The position of the laborer in modern society. Trade unionism and collective bargaining. Labor law and labor legislation. Prerequisite: Economics 55 or 105. 3 credit hours.
143. **Transportation.** Covers the field of inland transportation with special attention to railroads. Prerequisite: Economics 55 or 105. 3 credit hours.

COURSES IN DEPARTMENTS OF INSTRUCTION [163

150. **Industrial Management.** Principles of scientific management applied to the organization and direction of industrial enterprises; consideration of typical problems of executive control, management and compensation of employees, plant layout, planning and co-ordinating production; present day industrial tendencies. Prerequisite: Economics 55 or 105. 3 credit hours. Fee \$1.00.
152. **Public Finance.** The theory and practice of taxation, governmental borrowing, financial administration, and public expenditures. Prerequisite: Economics 55 or 105. 3 credit hours.
160. **Economic Theory.** A critical survey of methods of inquiry in the field of economics, of theories of property, value, price, wages, interest, rent, and profits. Required of majors in the department. Prerequisites: Economics 55 or 105, and permission of the instructor. 3 credit hours. Fee \$1.00.
190. **Problems in Recent American History.** (Same as History 190.) Given by the History Department but accepted toward the major in Economics and Business Administration. Economics majors taking this course are expected to deal with recent economic problems. Prerequisite: Economics 55 or 105, or History 52. 3 credit hours.
- 198 a, b, c. **Seminar in Economics.** Advanced undergraduates with high scholastic records are admitted to this course. 2-3. credit hours.

FOR GRADUATES ONLY

- 251 a, b, c. **Problems in Economics.** 2-4 credit hours.
300. **Thesis.** 2-6 credit hours.

DEPARTMENTS OF EDUCATION

SIMON P. NANNINGA, Ph.D., Professor
BENJAMIN F. HAUGHT, Ph.D., Professor
JAY C. KNODE, Ph.D., Professor
LOYD S. TIREMAN, Ph.D., Professor
JOHN W. DIEFENDORF, Ph.D., Professor
J. E. SEYFRIED, Ph.D., Associate Professor
*J. T. REID, M.A., Assistant Professor
PATTY MILLER BALES, B.A., Graduate Fellow

High school and elementary teachers are required to select a major and minor study outside the professional courses in education.

Students preparing to become administrators, supervisors, high school teachers, or elementary teachers, should refer to the respective curricula.

MISCELLANEOUS AND GENERAL COURSES
IN EDUCATION

PRIMARILY FOR FRESHMEN AND SOPHOMORES

31. **Introduction to Education.** An introduction to the various fields of education. 2 credit hours.
55. **Educational Classics.** An examination of the writings of great thinkers from early Grecian times to the present, with respect to education. 2 credit hours.
73. **Vocational Education.** A study of the National Vocational Education or Smith-Hughes Act, with practical problems in the organization and administration of state programs. 2 credit hours.
74. **Vocational Education.** A study of the New Mexico State Plan for Vocational Education as prepared under the provisions of the national act, with practical problems in the promotion and administration of local programs. 2 credit hours.

*On leave of absence, 1934-1935.

FOR JUNIORS, SENIORS, AND GRADUATES

101. **History of Education in Europe.** A study of the development of educational practices and systems through the Greek, Roman, Medieval and Modern periods in Europe. Study of text and sources, with discussions. 3 credit hours.
102. **History of Education in America.** A study of the evolution of American educational ideals and practices, with special reference to the origin and development of those features of our present-day practices which are most characteristically American. Study of text and sources, with discussions. 3 credit hours.
105. **Adult Education.** A survey course in the field of adult education dealing with the various developments, their origins, their social philosophies and objectives, their methods and results. The types include adult education in the public schools, university extension, agricultural extension, parent education, educational programs of clubs, churches, etc. 3 credit hours.
109. **Educational Sociology.** A practical treatment of the sociological aspects of school problems. 3 credit hours.
112. **Current Educational Problems.** A seminar type study and discussion of current problems in education. More than one semester's work is recorded as 112b, 112c, etc. 2 credit hours each semester.
151. **Problems.** 1-3 credit hours.
174. **Philosophy of Education.** A course dealing with the major movements in the development of our educational system. Emphasis is placed on the sociological and philosophical aspects of each, and the aims of education characteristic of each period. 3 credit hours.

FOR GRADUATES ONLY

See courses 251 and 300 in the several departments.

DEPARTMENT OF ELEMENTARY EDUCATION

PRIMARILY FOR FRESHMEN AND SOPHOMORES

21. **Supervision of Elementary Education.** Planned for visiting teachers at San Jose Training School. 3 credit hours.

- 42 **Classroom Organization and Management.** The problems of attendance, order, promotion, recitation, and study hours; testing results; growth and health of the teacher. 3 credit hours.
61. **Supervision of Elementary Education I.** The teaching of reading in the first three grades. 3 credit hours.
62. **Supervision of Elementary Education II.** A continuation of Education 61, dealing with methods of teaching history, geography, and arithmetic. 3 credit hours.
- 64a. **Practice Teaching in Elementary Grades.** Observation of methods and actual classroom teaching experience under supervision. Prerequisites: An observation course of one hour per week for one semester without credit under supervision, Education 61, and enrollment in Education 62. 4 credit hours.
- 64b. **Practice Teaching in Elementary Grades.** Open only to visiting teachers at San Jose Training School. 3 credit hours.

FOR JUNIORS, SENIORS, AND GRADUATES

122. **Supervision of the Language Arts in the Primary Grades.** Designed to give a general foundation in the supervision of the language arts (reading, language, spelling). 2 credit hours.
123. **Supervision of Elementary Education III.** Teaching of reading in the fourth, fifth, and sixth grades. Methods of teaching. Diagnosis and remedial work. Prerequisite: Education 61. 3 credit hours. (This course replaces Education 63, formerly required in the Elementary curriculum.)
132. **Supervision of the Social Sciences.** A course dealing primarily with the method involved in the teaching of history and geography. 2 credit hours.
135. **Supervision of Arithmetic.** The construction of units of drill work, analysis of textbooks, remedial work, etc. 2 credit hours.
136. **Practice Teaching in the Elementary Grades.** Prerequisites: An observation course of one hour per week for one semester without credit under supervision, Education 61, 62, 123, and Psychology 181. For practice teaching in public school music, the student must satisfy the prerequisites in the curriculum. 4 credit hours.

COURSES IN DEPARTMENTS OF INSTRUCTION [167

FOR GRADUATES ONLY

- 251. **Problems.** 2-3 credit hours.
- 300. **Thesis.** 2-6 credit hours.

DEPARTMENT OF SECONDARY EDUCATION

FOR JUNIORS, SENIORS, AND GRADUATES

- 141. **Principles of Secondary Education.** A course dealing with the aims, purposes, and general principles which apply to secondary education as a whole. 3 credit hours.
- 142. **High School Curriculum.** Principles and procedures in curriculum making as applied particularly to programs in both the junior and senior high school. 3 credit hours.
- 144. **The Junior High School.** Lectures, outside readings and reports, history of the junior high school movement, advantages and disadvantages of the junior high school, and some of the problems arising from its organization and administration. 2 credit hours.
- 147. **Extra-curricular Activities in the Secondary School.** A study of the guiding principles of pupil participation in the extra-curricular life of the junior and senior high school. 3 credit hours.
- 153. **High School Methods.** The relationship of problems and principles of education to the principles of teaching in secondary schools. Prerequisite: Psychology (Education) 54. 3 credit hours.
- 156. **Practice Teaching in High Schools.** Open to seniors who have had 153, and recommended for all students preparing for high school teaching. The course consists of observation of methods, and classroom teaching experience under supervision. 4 credit hours.
- 158. **High School Supervision.** Principles and practices of supervision. A fundamental purpose of the course is to develop an appreciative attitude toward supervision on the part of the high school teacher. Open to high school teachers and administrators. 3 credit hours.
- 159. **Directed Study.** The theory and practice of directing pupil study. A course designed to give practical assistance to the teacher who has charge of a class during a lengthened period,

and to supervisors of such teachers. Limited to advanced undergraduates and graduate students. 3 credit hours.

FOR GRADUATES ONLY

251. Problems. 2-3 credit hours.

300. Thesis. 2-6 credit hours.

DEPARTMENT OF EDUCATIONAL ADMINISTRATION

FOR JUNIORS, SENIORS, AND GRADUATES

161. New Mexico Law School. A study of the New Mexico statutes on education, and the Rules and Regulations of the New Mexico State Board of Education. The present laws are analyzed and evaluated in the light of the best American theories and practices. 3 credit hours.

163. State School Administration. The organization and administration of state school systems. The course includes the study of such topics as federal and state policy, forms of control. 3 credit hours.

164. City School Administration. A study of educational, financial, and administrative principles underlying the administration of school systems in cities. 3 credit hours.

166. The Principal and His School. Organization and administration of a single school; organization and supervision of instruction as applied to the elementary school principal, the junior high school principal, and the high school principal. 3 credit hours.

168. Public School Finance. Methods of financing public education in the United States, with special attention to New Mexico. Budgets, records, reports, etc., are considered. 3 credit hours.

171. Problems of the Teaching Profession. A study of the principles of educational administration and organization as applied to the duties and responsibilities of the classroom teacher. 3 credit hours.

176. Research Methods in Education. A foundation course. Such matters as technique and tools of research, sources of information, selecting and defining problems, collecting data, formulating conclusions, and reporting findings, are stressed.

COURSES IN DEPARTMENTS OF INSTRUCTION [169

Research studies selected on the basis of the interests of the individual students are analyzed and evaluated. 3 credit hours.

- 177. **School Buildings and Equipment.** Assigned readings. The course is open to upper classmen and graduate students. 3 credit hours.
- 178. **Seminar in Educational Administration.** Limited to advanced undergraduate and graduate students whose interest is educational administration. Topics chosen according to the interest of the students enrolled. Admission on consultation with the instructor. More than one semester of work is recorded as 178a, 178b, etc. 2 credit hours each semester.

FOR GRADUATES ONLY

- 251. **Problems.** 2-3 credit hours.
- 300. **Thesis.** 2-6 credit hours.

DEPARTMENT OF EDUCATIONAL PSYCHOLOGY

PRIMARILY FOR SOPHOMORES

- 54. **Educational Psychology.** An introductory course emphasizing heredity, individual differences, and learning. Prerequisite: Psychology 51. 3 credit hours.

FOR JUNIORS, SENIORS, AND GRADUATES

- 181. **Educational Tests and Statistics.** Statistics used in interpreting test results, administering and scoring tests, selection of tests. Prerequisite: Psychology 51. 3 credit hours. Fee \$1.00.
- 183. **Educational Psychology.** A study of learning, with some attention to the laws of heredity and individual differences. Prerequisite: Psychology 51. 3 credit hours.
- 185. **Mental Measurements.** Practice in the administration of individual and group tests, the origin and history of the testing movement, and interpretation of results. Prerequisite: Psychology 51. 3 credit hours. Fee \$1.00.

FOR GRADUATES ONLY

251. Problems. 2 credit hours.
300. Thesis. 2-6 credit hours.

DEPARTMENTS OF ENGINEERING

MARSHALL E. FARRIS, M.S. in M.E., Professor
FRANCIS M. DENTON, F.C.G.I., Professor
J. H. DORROH, B.E., C.E., Professor
JOHN D. CLARK, Ph.D., Professor
STUART A. NORTHROP, Ph.D., Professor
ROBERT WALPOLE ELLIS, M.A., Professor
VEON C. KIECH, Ph.D., Associate Professor
CHESTER RUSSELL, M.A., Assistant Professor
WILLIAM C. WAGNER, B.S. in C.E., Instructor
EDWIN F. SMELLIE, M.S.E., Instructor
METZ BEAHM, Student Assistant
HUGH DUTTER, Student Assistant

GENERAL COURSES IN ENGINEERING

See pages 111-117 for outline of curricula.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

- 1-2. Engineering Drawing. The essentials of drafting, including the use of instruments, lettering, projecting, sections, developments, isometric drawing, and working drawings. Approved drawing equipment required. One class hour and three laboratory hours per week. 2 credit hours each semester. Fee \$1.00 each semester.
51. Descriptive Geometry. A study of the theory and science of engineering drawing. Prerequisite: Engineering 2. One class hour, three laboratory hours per week. 2 credit hours. Fee \$1.00.
- 55-56. Elementary Surveying. Elementary course in plane surveying, including the theory and use of the chain, tape, compass, transit, and level. Prerequisite: Mathematics 16. One hour recitation, three hours laboratory per week. 2 credit hours each semester. Fee \$3.00 each semester.

COURSES IN DEPARTMENTS OF INSTRUCTION [171

- 58. **Engineering Lectures.** Readings and discussions regarding the profession of engineering and the various fields of engineering. Prerequisite: sophomore standing. 1 credit hour.
- 60. **Applied Mechanics.** General principle of statics. Stresses in simple frame structures. Friction. Center of gravity and moment of inertia. Co-requisite: Mathematics 54. Two class hours and three laboratory hours per week. 3 credit hours.

DEPARTMENT OF CHEMICAL ENGINEERING

A description of the courses offered in chemistry will be found under the Department of Chemistry.

DEPARTMENT OF CIVIL ENGINEERING

- 103. **Advanced Surveying.** A study of topographic methods including the theory and use of the plane table, barometer, and sextant; and a study of hydrographic and aerial surveying, geodetic triangulation, and astronomical observations. Prerequisite: Engineering 55-56. Two hours recitation, three hours laboratory and three hours computation per week. 4 credit hours. Fee \$3.00.
- 104. (Formerly 101.) **Railroad Engineering.** The principles involved in the economic location of railroads and highways, including the theory and use of various curves, and earth-work computations. Prerequisite: Civil Engineering 103. Three hours recitation and three hours laboratory per week. 4 credit hours. Fee \$3.00.
- 108. **Strength of Materials.** The mechanics of materials. Theory of beams, columns, and shafts. Prerequisite: Mechanical Engineering 109. 3 credit hours.
- 110. **Hydraulics.** Elementary theory of hydraulics, including hydrostatics and hydrodynamics, with a brief discussion of water wheels, turbines, and pumps. Prerequisite: Mechanical Engineering 109. 2 credit hours.
- 112. **Strength of Materials Laboratory.** Testing the materials of construction, including timber, metal, masonry, and stone.

Co-requisite: Civil Engineering 108. One hour recitation and three hours laboratory per week. 2 credit hours. Fee \$3.00.

115. **Masonry.** The study of the nature of bricks, stone, lime, clay, products, cement, gravel, and concrete. The methods of constructing foundations, culverts, and retaining walls. Prerequisite: junior standing. Two hours recitation and three hours laboratory per week. 3 credit hours. Fee \$3.00.
118. **Highway Engineering.** Location, construction, maintenance, cost, durability, and methods of financing all types of country roads and city pavements. The laboratory work includes the examination and physical testing of bituminous and non-bituminous road materials. Prerequisite: Engineering 55. Two hours recitation and three hours laboratory per week. 3 credit hours. Fee \$3.00.
157. **Field Surveying.** Summer camp, two weeks. Practice in topographic surveying. Complete surveys of the project are made and the notes used for mapping in the succeeding course. Prerequisite: Civil Engineering 103. 2 credit hours.
159. **Stresses in Structure.** Elements of graphic and analytic statics. Determination of stresses in beams and in roof and bridge trusses. Prerequisite: Civil Engineering 108. Two hours recitation and three hours computation per week. 3 credit hours.
160. **Design of Structures.** The design and detail of timber, steel, and concrete beams, girders, and trusses under varied conditions of load. Prerequisite: Civil Engineering 159. Two hours recitation and three hours computation per week. 3 credit hours.
162. **Water Supply.** A study of works for collection, storage, purification, and distribution of municipal water supplies. Prerequisite: Civil Engineering 110. 3 credit hours.
165. **Sewerage.** Instruction in the principles involved in the design and construction of sewers; the treatment and disposal of sewage by modern methods. Prerequisite: Civil Engineering 110. 2 credit hours.
166. **Municipal Design.** Laying out of an industrial town, including the street improvements, water supply, storm and sanitary sewer, together with the necessary plans, profiles, working drawings, specifications, and estimates of cost. Prereq-

COURSES IN DEPARTMENTS OF INSTRUCTION [173

- quisite: Civil Engineering 165. One hour recitation and six hours computation work. 3 credit hours.
167. **Reinforced Concrete.** The principles of reinforced concrete beams, slabs, and columns. The design of retaining walls, bridges, and buildings of this material. Prerequisite: Civil Engineering 108. Two hours recitation and three hours computation per week. 3 credit hours.
169. **Topographic Mapping.** A complete topographic map is made by each student from the notes taken during the summer Field Session. Prerequisite: Civil Engineering 157. Three hours computation per week. 1 credit hour.
170. **Contracts and Specifications.** The law governing engineering practice; contracts, specifications and ethical relations. Prerequisite: senior standing. 2 credit hours.
173. **Hydraulics Laboratory.** A study of pumps, meters, orifices, weirs, loss of head in pipes, and flow of water in open channels and conduits. Prerequisite: Civil Engineering 110. Three hours laboratory per week. 1 credit hour. Fee \$3.00.
182. **Seminar.** Reports and discussions of engineering topics. Prerequisite: senior standing. 1 credit hour.

DEPARTMENT OF ELECTRICAL ENGINEERING

101. **Direct Current Machinery.** Construction, theory of operation, and characteristics of direct current generators and motors, with a preliminary study of the more advanced fundamental principles of electrical engineering. Co-requisite: Physics 111. 4 credit hours.
102. **Theory of Alternating Currents.** The theory of alternating currents and methods for the solution of problems in single-phase and polyphase systems. Wave form analysis and study of methods and apparatus used in A. C. measurements. Prerequisite: Electrical Engineering 101. 4 credit hours.
- 105-106. **Principles and Practice of Electrical Engineering.** For students pursuing courses in civil, chemical, geological, or mechanical engineering. Includes study of the fundamentals of electrical engineering, direct current dynamos, the theory of alternating currents, and alternation current machinery, together with electrical engineering laboratory. Prerequisite: Physics 52 and Mathematics 54. Two hours recitation and

three hours laboratory per week. 3 credit hours each semester. Fee \$3.00 each semester.

111. **Direct Current Machinery Laboratory.** Experimental work with direct current generators and motors. To accompany Electrical Engineering 101. Six laboratory hours. 2 credit hours. Fee \$6.00.
112. **Alternating Current Laboratory.** Experimental work on alternating current circuits and phenomena. To accompany Electrical Engineering 102. Six laboratory hours per week. 2 credit hours. Fee \$6.00.
114. **Direct Current Traction.** A brief but inclusive treatment of the mechanical and electrical problems of electric railways and their solution by the use of direct current. Prerequisites: Physics 52 and Electrical Engineering 111. 1 credit hour.
- 151-152. **Alternating Current Machinery.** A detailed study of alternating current instruments, apparatus, and machinery, including the theory of operation and characteristics of alternators, transformers, rectifiers, A. C. motors, synchronous converters, phase converters, and voltage regulators. Prerequisite: Electrical Engineering 102. 4 credit hours each semester.
- 155-156. **Alternating Current Machinery Laboratory.** Experimental work in the determination of the characteristics of alternating current machinery. To accompany Electrical Engineering 151 and 152. Six laboratory hours per week. 2 credit hours each semester. Fee \$6.00 each semester.
- 161-162. **Design of Electrical Machinery.** Electrical design of direct and alternating current machinery. To accompany but not precede Electrical Engineering 151. Prerequisite: Electrical Engineering 102. One hour recitation and six hours laboratory per week. 3 credit hours each semester.
193. **Communications.** A practical and mathematical treatment of the more important systems of communications, including submarine telegraphy, land telegraphy, telephony, and radio. The course includes a study of the use of hyperbolic functions. Prerequisite: Electrical Engineering 102. 3 credit hours.
196. **Transmission.** Solutions of power transmission problems; design of transmission systems, including transmission line

COURSES IN DEPARTMENTS OF INSTRUCTION [175

construction and protection. Prerequisites: Electrical Engineering 151 and 193. 3 credit hours.

197. **Alternating Current Traction.** A course supplementing Electrical Engineering 114. Prerequisite: Electrical Engineering 114. 1 credit hour.
198. **Illumination.** Light and illumination treated theoretically and practically from the point of view of the electrical engineer. Prerequisites: Physics 52 and Electrical Engineering 112. 1 credit hour.
200. **Radio and Signalling.** The physical principles of radio-transmission and their application to telegraphy, telephony, television, and signalling. Prerequisites: Physics 52 and Electrical Engineering 112. 2 credit hours.

DEPARTMENT OF GEOLOGICAL ENGINEERING

A description of the courses offered in geology will be found under the Department of Geology.

DEPARTMENT OF MECHANICAL ENGINEERING

101. **Heat-Power Engineering.** A general study of the elementary principles of heat-power engineering, and a study of heat equipment such as internal combustion engines and steam power equipment, with their auxiliaries. Prerequisites: Mathematics 54, Physics 52, and Chemistry 2. 3 credit hours.
102. **Thermodynamics.** Thermodynamic laws governing the action of steam engines and turbines, internal combustion engines, air compressors, and refrigerating machines. Also a study of the laws of gases, the flow of fluids, and the properties of air, steam, ammonia, and other heat media. Prerequisite: Mechanical Engineering 101. 3 credit hours.
103. **Heat-Power Laboratory.** Calibration of mechanical measuring instruments such as gauges, thermometers, planimeters, tachometer, scales, etc. Determination of the quality of steam and fuel, gas analysis; and efficiency tests of simple engines. Intended primarily for mechanical and chemical engineers. Co-requisite: Mechanical Engineering 101. Three hours laboratory and three hours computation per week. 2 credit hours. Fee \$3.00.
105. **Engineering Materials.** An elementary study of the characteristics of metals, alloys, wood, and concrete, and of the

manufacture and heat treatment of iron and steel. Prerequisite: Chemistry 2. 3 credit hours.

107. **Mechanical Engineering Laboratory.** Calibration of mechanical measuring instruments, such as gauges, thermometers, planimeters, etc., and efficiency tests of simple engines. For civil and electrical engineers. Co-requisite: Mechanical Engineering 101. Three hours laboratory per week. 1 credit hour. Fee \$3.00.
109. (Formerly 106.) **Applied Mechanics (Dynamics).** A study of the principles of kinematics and kinetics. Prerequisite: Engineering 60. 3 credit hours.
114. **Mechanisms.** A study of the displacements, velocities, and accelerations of such machine elements as links, cams, gears, chains, etc. Prerequisites: Engineering 51 and Physics 51. Two hours recitation and six hours laboratory per week. 4 credit hours.
- 151-152. **Mechanical Engineering Laboratory.** Tests of steam power equipment such as boilers, engines, turbines, fans, compressors, and pumps; and tests of internal combustion engines and refrigerating equipment. Particular attention is given to the analysis of data and to the writing of reports. Prerequisite: Mechanical Engineering 102. Three hours laboratory and three hours computation per week. 2 credit hours each semester. Fee \$3.00 each semester.
- 153-154. **Machine Design.** A study of machine elements, with due regard to strength, proportion, and materials. Preparation of working drawings, bills of material, and cost estimates. Prerequisites: Mechanical Engineering 114 and Civil Engineering 108. Two hours recitation and three hours laboratory per week. 3 credit hours each semester.
155. **Power Plants.** A detailed study of the different types of power plants and their equipment. Economies of power plant location, design, and operation. Prerequisite: Mechanical Engineering 102. 4 credit hours.
156. **Engineering Economics.** The elements of economics as applied to the general operation and management of engineering projects. Prerequisite: senior standing. 3 credit hours.
- 157-158. **Seminar.** A study and discussion of current technical articles of interest to mechanical engineers. Prerequisite: senior standing. 1 credit hour each semester.

160. **Internal Combustion Engines.** This course covers the theory of Otto and Diesel type engines, and includes details of design of each. Attention is given to thermodynamics, fuels and combustion, carburetion, fuel injection, fuel ignition, cooling, lubrication, and testing procedure. Prerequisite: Mechanical Engineering 102. 3 credit hours.
162. **Air Conditioning.** A study of the methods used to heat, cool, humidify, clean, and distribute air in a building. Prerequisite: Mechanical Engineering 102. One hour recitation, three to nine hours laboratory, per week. 2 to 4 credit hours.

DEPARTMENT OF ENGLISH

GEORGE ST. CLAIR, Ph.D., Professor
 GEORGE POPE SHANNON, Ph.D., Professor
 THOMAS MATTHEWS PEARCE, Ph.D., Associate Professor
 *JULIA MARY KELEHER, M.A., Instructor
 DANE FARNSWORTH SMITH, Ph.D., Instructor
 ROBERT EDWIN SNAPP, M.A., Instructor
 DUDLEY WYNN, M.A., Instructor
 KATHRYN KENNEDY O'CONNOR, Special Instructor
 *PAUL WALTER, JR., Part-time Instructor in Journalism
 GERTRUDE WARNER, B.A., Graduate Fellow
 BLANCHE TRIGG BONNER, Student Assistant.

GROUP REQUIREMENTS. Courses 21 and 22 and three hours to be elected from courses numbered above 50 are prescribed for students in the College of Arts and Sciences, to meet the requirements of Group I. Six hours above 21 and 22 are required of students in the College of Education. Courses 21, 22, and 65 are required of students in the College of Engineering.

MAJOR STUDY. Courses 21, 22, 53, 54, and twenty-four additional hours in courses numbered above 50. The courses taken must include 61 or 63; 88; 91; 151, 152, or 154; two courses chosen from 132, 148, 177, 178, and 181; and 198. Twelve hours must be taken in courses numbered above 100. Seniors must pass a comprehensive final examination in English literature, language, and composition.

*On leave of absence, 1934-1935.

MINOR STUDY. In the College of Arts and Sciences, fifteen hours in courses numbered above 50; in the College of Education, eighteen hours in courses numbered above 50.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

11. **Review English.** A rapid review of spelling, sentence structure, punctuation, and grammar. No college credit. (Required of all students who fail to pass the test prescribed on page 44, and it must be completed by such students before they are admitted to English 21.)
- 21-22. **Freshman Composition.** The principles and practices of composition. 3 credit hours each semester.
23. **Introduction to Poetry.** Reading and discussion of short English poems of recognized merit, with attention both to ideas and to poetic form. This course cannot be taken for credit by English majors or minors. 1 credit hour.
- 51a,b,c. **Great Books.** Not open to freshmen, except by special permission. May be taken as many times as a new subject or author is taken up. 1 credit hour each time taken.
- 53-54. **History of English Literature.** Prerequisite for majors to all other courses in English literature. Prerequisites: English 21 and 22. Restricted to students who expect to make English their major or minor. 3 credit hours each semester.
55. **Public Speaking.** Juniors and seniors must make a grade of A or B and do additional work in order to earn 3 credit hours. Prerequisites: English 21 and 22. 3 credit hours.
57. **Types of English Literature.** For students not expecting to major in English. Prerequisites: English 21 and 22. 3 credit hours.
58. **Argumentation and Debate.** Training in the application of formal logic to oral and written argumentation. Prerequisites: English 21 and 22. 3 credit hours.
59. **Interpretative Reading.** Practical training in dramatic and theater arts; the technique of acting, reciting, public speaking, and story telling; pantomime, voice culture, eurythmics; training in the recognition and expression of the dramatic in literature. Prerequisites: English 21 and 22. 2 credit hours. Fee \$5.00.

COURSES IN DEPARTMENTS OF INSTRUCTION [179

60. **Interpretative Reading.** Continuation of English 59. Same prerequisites. 2 credit hours. Fee \$5.00.
61. **Advanced Composition.** Practice in the writing of exposition. Prerequisites: English 21 and 22. Restricted to English majors and minors. 3 credit hours.
63. **Advanced Composition.** Practice in narrative and descriptive writing. Prerequisites: English 21 and 22. 3 credit hours.
65. **Practical English.** Advanced exposition for students not majoring in English. 3 credit hours.
68. **Creative Writing.** A special course in advanced composition for advanced students with considerable training or talent. The nature of the work is determined by the needs and abilities of the students. Prerequisites: English 21, 22; 61 or 63 also recommended. 1 or 2 credit hours.
70. **Teaching of Literature in Secondary Schools.** Content is stressed, but methods are discussed. Prerequisites: English 21 and 22. 3 credit hours.
71. **The Earlier Essay.** A study of the development of the essay through the Victorian period, with readings from the most important essayists. Prerequisites: English 21 and 22. 3 credit hours.
72. **The Contemporary Essay.** From the 1890's to the present day. Prerequisites: English 21, 22, and 71. 3 credit hours.
77. **Southwestern Literature.** Interpretation of the cultural and esthetic values in literature of the American Southwest. Prerequisites: English 21 and 22. 1 credit hour.
82. **American Literature.** A general survey of the field down to 1900, with more intensive study of the great writers of the 19th Century. Prerequisites: English 21 and 22. 3 credit hours.
- 85-86. **Journalism.** History, theory and practice of journalism. Prerequisites: English 21 and 22. One hour lecture and two hours laboratory per week. 2 credit hours each semester. Fee \$2.00 each semester.
88. **Comparative Literature.** Lectures on literary monuments of Palestine, Greece, Rome, Medieval and Renaissance Europe, supplemented by reading of kindred and derived work in English literature. Prerequisites: English 21 and 22. 2 credit hours.

91. **History of the English Language.** An elementary survey of the etymology, morphology, phonetics, and semantics of English. Special attention is given to the relation between linguistic and cultural changes. Prerequisites: English 21 and 22. 2 credit hours.
- 95-96. **Greek Literature in Translation.** See Greek 95 and 96. 2 credit hours each semester.

FOR JUNIORS, SENIORS, AND GRADUATES

132. **Contemporary Poetry.** Chiefly English poetry. Prerequisites: English 21, 22, 53, and 54. 3 credit hours.
141. **Shakespeare.** A detailed study of selected plays. Prerequisites: English 21, 22, and 53 or 57. 3 credit hours.
142. **Elizabethan Drama.** The dramatic works of Shakespeare's immediate predecessors and contemporaries, with special attention to their influence on Shakespeare's plays. Prerequisites: English 21, 22, and 53. 3 credit hours.
144. **Dante in Translation.** A study of Dante as the mirror of Medieval thought. Restricted to senior and graduate students. Prerequisites: English 21, 22, 53, and one advanced course in English. 2 credit hours.
145. **Spenser.** Most of Spenser's poetry will be read, with special emphasis upon this poet as an interpreter of the Renaissance spirit. Prerequisites: English 21, 22, and 53. 2 or 3 credit hours.
146. **Milton.** All of Milton's poetry will be read, some of his prose, and some representative prose and verse from other writers of the period. Prerequisites: English 21, 22, and 53. 2 or 3 credit hours.
147. **Studies in World Drama.** Prerequisites: English 21 and 22. 2 credit hours.
148. **Elizabethan Literature Exclusive of the Drama.** Studies in the prose and poetry of the period. Prerequisites: English 21, 22, and 53. 3 credit hours.
149. **Contemporary Drama.** Prerequisites: English 21, 22, and 141 or 142 or 147. 2 credit hours.
151. **Chaucer.** A reading of Chaucer's chief literary works with an examination of his philosophy. Prerequisites: English 21, 22, and 53. 3 credit hours.

COURSES IN DEPARTMENTS OF INSTRUCTION [181

152. **Old English.** Prerequisites: English 21, 22, and 53. 3 credit hours.
154. **Middle English.** A general survey of the types of 14th Century literature. Prerequisites: English 21, 22, and 53. 3 credit hours.
156. **Medieval Literature.** A general introduction to Medieval European literature, with special reference to important types, as romances, histories, lyrics, fabliaux, etc. This course is supplementary to courses 144, 151, 152, and 154. Prerequisites: English 21, 22, and 53. 3 credit hours.
159. **Verse Forms.** A study of the more important English metrical forms, with reference to their structure, their history, and their importance in English poetry; supplemented by exercises in the writing of verse. Prerequisite: at least one semester's college work in English literature. 2 credit hours.
177. **The Classical Period in English Literature.** A detailed study of the chief writers in England from the Restoration to the decline of neoclassicism. Prerequisites: English 21, 22, and 53. 3 credit hours.
178. **The Romantic Movement.** A detailed study of the forerunners of romanticism in the 18th Century, and of the poetry and prose of the early 19th Century. Prerequisites: English 21, 22, and 53, and 54 or 177. 3 credit hours.
181. **Victorian Poets.** A careful study of the representative poets from 1830 to 1890. Prerequisites: English 21, 22, 53, and 54. 3 credit hours.
185. **The English Novel.** A survey of fiction before the 18th Century which contributed to the development of the novel, and a history of the form since Richardson. Prerequisites: English 21, 22, 53, and 54. 3 credit hours.
190. **Early Elizabethan Drama.** Special attention to the plays of Marlowe. Restricted to seniors and graduates. 2 credit hours.
191. **Later Elizabethan Drama.** Special attention to the plays of Jonson. Restricted to seniors and graduates. 2 credit hours.
192. **Thesis-Writing.** An introduction to methods of bibliography, and of collecting material for term papers and theses in the field of English, with special attention to the mechanics involved in the preparation of the manuscript. 1 credit hour.

194. **Early Renaissance.** A seminar dealing with selected areas of English and Scottish literary history of the 15th and 16th Centuries. Prerequisite: any one of English 148, 151, 154, or 156. 2 credit hours.
195. **History of Criticism, Chiefly English.** Restricted to seniors and graduates. 1 credit hour.
198. **Review Seminar.** Senior English majors are required to take this course. 1 credit hour.

FOR GRADUATES ONLY

210. **Seminar in Contemporary Poetry.** 1-2 credit hours.
251. **Problems.** 2-3 credit hours.
300. **Thesis.** 2-6 credit hours.

DEPARTMENT OF GEOLOGY

STUART A. NORTHROP, Ph.D., Professor
ROBERT WALPOLE ELLIS, M.A., Professor
LEE MCGUINNESS, B.S., Graduate Fellow

MAJOR STUDY. Twenty-four hours beyond courses 1 and 5. Chemistry 1 and 2 with laboratory are required. Chemistry 113 and Engineering 55-56 and Civil Engineering 169 may be counted toward a major.

MINOR STUDY. Twelve hours beyond courses 1 and 5.

EQUIPMENT. The Department of Geology is housed in the west end of Science Hall. There are three laboratories, one of which is equipped for blowpipe work in determinative mineralogy. There are large collections of minerals, rocks, ores, and fossils, and a variety of topographic and geologic maps and folios. The University Library contains a fairly complete set of publications of the United States Geological Survey.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

1. **Physical Geology.** A general study of the materials composing the earth; the work of agencies, both external and internal, that modify the surface of the earth. 3 credit hours.
2. **Historical Geology.** The history of the earth and of life, dealing with the earth's place in the universe, its probable

origin, and its changing features and climates, with the rise and succession of the various forms of life that have inhabited it. Prerequisite: Geology 1. 3 credit hours.

5. **Physical Geology Laboratory.** Laboratory exercises designed to familiarize the student with minerals, rocks, and topographic maps. In addition there are field excursions. This course is required of all who intend to major or minor in geology. Should accompany Geology 1, credit suspended when Geology 1 is not passed. 1 credit hour. Fee \$1.00.
6. **Historical Geology Laboratory.** Exercises designed to familiarize the student with fossils and paleogeographic maps. Required of students who intend to major or minor in geology. Should accompany Geology 2, credit suspended when Geology 2 is not passed. 1 credit hour. Fee \$1.00.
51. **Mineralogy.** This course is basal to Geology 52 and should be followed by that course. It includes some study of crystals, the physical properties of minerals, and a critical study of seventy-five minerals. Prerequisite: elements of chemistry. 2 credit hours. Fee \$1.00.
52. **Determinative Mineralogy.** This is essentially a laboratory course. It is intended to give the student practice in the identification of minerals, both by their physical properties and by blowpipe methods. About 125 minerals will be determined and studied, so that they may be identified and described at sight. Prerequisite: Geology 51. 2 credit hours. Fee \$2.00.
53. **Meteorology.** The purpose of this course is to give the student a knowledge of the forces, the principles, and the laws underlying the various phenomena of weather. 2 credit hours.
54. **Geography of North America.** Different portions of North America are studied with attention to the ways each influences the activities of man therein, and with reference to the ways and means that man uses to subordinate natural conditions to his own desires. 2 credit hours.

FOR JUNIORS, SENIORS, AND GRADUATES

101. **Economic Geology.** A study of the non-metallic materials of economic importance occurring in the earth—as coal, petroleum, clays, etc. Prerequisites: Geology 2, 6, 51, and 52. 3 credit hours.

102. **Economic Geology.** Ore deposits. A study of the principles and modes of ore deposition; the origin, the modes of occurrence, etc., and the ores of the important metals. Prerequisites: Geology 2, 6, 51, and 52. 3 credit hours.
105. **New Mexico Geology.** The physiography, the formations, the structure, the geologic history, and the economic geology of New Mexico. Prerequisites: Geology 2, 6, 101, and 102. 2-4 credit hours.
106. **Geologic Mapping.** The student is required to map the geology of a certain region, and to prepare a report embodying the main physiographic and geologic features of the area. Prerequisites: Geology 2 and 6, and Civil Engineering 169. 2 credit hours.
107. **Petrology.** The properties, geologic mode of occurrence, origin, and classification of rocks from the megascopic point of view. Thin sections and the microscope are used only incidentally. Lectures, assigned readings, and laboratory study. Prerequisites: Geology 2 and preferably some chemistry. 3 credit hours. Fee \$1.00.
108. **Structural Geology.** Rock structures and their modes of origin. Emphasis on architecture of mountain ranges. Lectures, assigned readings, and individual reports. Prerequisites: Geology 2 and 107. 3 credit hours.
109. **Stratigraphy.** A study of the principles of stratigraphy, followed by a survey of the stratified rocks of North America, their correlations, stratigraphic relations, and characteristic index fossils. Lectures, assigned readings, and laboratory work. Prerequisite: Geology 2. 4 credit hours. (Not offered in 1935-1936.)
110. **Stratigraphy.** A continuation of Geology 109. Credit not given for either semester separately. 4 credit hours. (Not offered in 1935-1936.)
111. **Paleontology.** A general survey of fossil plants, invertebrates, and vertebrates, involving a comparison of the anatomical structure of living and extinct types; classification, life habits, and geologic history. Stress laid upon the invertebrate index fossils. Lectures, assigned readings, and laboratory work. Prerequisites: Geology 2 and some knowledge of biology. 4 credit hours. Fee \$1.00.

COURSES IN DEPARTMENTS OF INSTRUCTION [185

- 112. **Paleontology.** A continuation of Geology 111. Credit not given for either semester separately. 4 credit hours. Fee \$1.00.
- 115. **Petroleum Geology.** Lectures and assigned readings dealing with the principles of oil and gas geology. Prerequisites: Geology 2, and preferably 107 and 108. 3 credit hours.
- 116. **Sedimentation.** Lectures, assigned readings, and seminar dealing with the principles of the deposition of sediments. Prerequisites: Geology 2, and preferably 107 and 108. 3 credit hours.
- 121. **Conservation of Natural Resources.** A consideration of the limitations of the resources of forests, soil, mineral deposits, etc.; their waste, use, and preservation. Prerequisite: Geology 54. 3 credit hours.
- 151. **Problems Seminar.** 2-4 credit hours.
- 181. **Geomorphology.** Study of the origin, development, and classification of land forms. Lectures, assigned readings, and laboratory study in the interpretation of topographic maps. Prerequisites: Geology 2 and 108. 3 credit hours.
- 182. **Geomorphology of the United States.** Detailed study of the geomorphologic provinces of the United States, embracing a description and analysis of the topography of each region and a review of its geologic history. Stress is laid upon western United States. Lectures, assigned readings, and individual reports. Prerequisite: Geology 181. 3 credit hours.

FOR GRADUATES ONLY

- 251. **Problems.** 1-4 credit hours.
- 300. **Thesis.** 2-6 credit hours.

DEPARTMENT OF GOVERNMENT AND CITIZENSHIP

ARTHUR S. WHITE, J.D., Professor
JAMES FULTON ZIMMERMAN, Ph.D., Professor
BENJAMIN SACKS, Ph.D., Instructor
HELEN HEACOCK ELLIS, B.A. in Educ., Graduate Fellow
JAMES SWANE, Student Assistant

The study in this department is designed to enable the student to understand the nature, function, and problems

of government. Much attention is given to the duties and problems of the citizen. Certain courses are arranged for students who expect to enter the public service or the field of law.

GROUP REQUIREMENTS. Courses in government and citizenship are accepted toward the fulfillment of the requirement in Group III.

MAJOR STUDY. Students must complete thirty hours including courses 1, 2, 51, and 52.

MINOR STUDY. Students must complete eighteen hours including courses 1, 2, 51, and 52.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

- 1-2. **Introductory Course.** A preliminary study of the problems of government in which much attention is given to methods of study and the development of a scientific attitude. Open to freshmen. Advanced students admitted by permission. 2 or 3 credit hours each semester. Fee fifty cents each semester.
- 51-52 (Formerly 21 and 22.) **American Government and Politics.** A critical study of our system of government and present problems, national, state, and local. 3 credit hours each semester. Fee fifty cents each semester.
61. **Nature and Sources of Law.** The origin, nature, and function of law as a social institution. Prerequisites: Government 1, 2, 51, and 52. 2 credit hours. Fee fifty cents.
62. **Nature and Sources of Law.** A continuation of course 61, with especial emphasis on the development of the common law under American influences. 2 credit hours. Fee fifty cents.
- 71-72. **European Governments.** A general study of government as a problem, through a consideration of the form which government has taken in a number of European states. 3 credit hours each semester. Fee fifty cents each semester.
75. (Formerly 102.) **Political Parties.** The organization and function of political parties, with especial emphasis upon the nature of public opinion and the conditions producing political bosses and popular leaders. Prerequisites: Government 1 and 2. 3 credit hours. Fee fifty cents.

FOR JUNIORS, SENIORS, AND GRADUATES

104. **Principles of Citizenship.** The origin and nature of such attitudes as express themselves in citizenship, and the effect which the methods of our political institutions have on these attitudes. Especial attention is given to the problems involved in education for citizenship. 3 credit hours.
141. **International Relations.** The origin and nature of the problems involved in international relations. Prerequisites: History 22 and 52 are recommended. 3 credit hours.
143. **International Law.** The origin, nature, and application of the rules of international law. Prerequisites: Government 1, 2, 51, 52. 3 credit hours.
148. **International Organization.** The origin, organization, and practice of such international institutions as the consular service, international diplomacy, international federations, the League of Nations, and the World Court. Prerequisite: Government 141 or 143. 3 credit hours.
151. **American Diplomacy.** (Same as History 151.) Traditions and practices of the diplomacy of the United States as developed and indicated in outstanding international situations. Prerequisites: History 51 and 52 recommended. 3 credit hours.
154. **Latin American Diplomacy.** The diplomatic relations of the Latin American republics. Economic and imperialistic factors are given especial attention. Open to juniors, seniors, and graduates with approved prerequisites. 3 credit hours.
161. **Problems of Democracy.** A study of governmental programs and policies in relation to poverty, unemployment, old-age pensions, and other activities concerned with the general welfare. 2 credit hours.
168. **Political Theory.** A critical study of political thought from the Greek period to modern times, and an effort to evaluate some current trends of political thought in terms of human experience. Open to seniors and graduates with approved prerequisites. 3 credit hours.
169. **Contemporary Political Theory.** A preliminary survey of the traditional American individualistic and contract political theories and a study of the Marxian theory and other socialistic theories, including Bolshevism. The theory of the

Fascist corporate state. The theories and programs of current governmental policies. 3 credit hours.

171. **Government and Business.** A study of the political effects of business enterprising and governmental intervention. Current governmental programs are studied in relation to social and political trends. Prerequisites: Government 1 and 2. 3 credit hours.
176. **Constitutional Law.** A study of the Constitution of the United States as it has been interpreted by the courts. Prerequisites: Government 51 and 52. 3 credit hours.
- 195-196. **Advanced Reading Course.** Open to approved seniors and graduates who wish to explore a field of independent study. 2 to 4 credit hours each semester.
- 197-198. **Seminar.** Open to advanced students with approved qualifications. 2 to 4 credit hours.

FOR GRADUATES ONLY

- 201-202. **Seminar in Government.** 2-4 credit hours.
- 261-262. **Seminar in International Law and Relations.** 2-4 credit hours.
300. **Thesis.** 2-6 credit hours.

DEPARTMENT OF GREEK AND LATIN

LYNN BOAL MITCHELL, Ph.D., Professor

*CLYDE KAY M. KLUCKHOHN, B.A. (Oxon.), Assistant Professor,
Collaborating

GREEK

GROUP REQUIREMENTS. Courses 95 and 96 are not accepted toward the requirement in Group II.

MAJOR AND MINOR STUDIES. Not offered.

MISCELLANEOUS. Courses 95 and 96 receive credit in the Department of English.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

1. **Elementary Greek.** The common forms, idioms, constructions, and grammatical principles of Attic Greek. 4 credit hours.

*On leave of absence, 1934-1935.

COURSES IN DEPARTMENTS OF INSTRUCTION [189

2. **Elementary Reading Course.** Xenophon: *Anabasis*, Books I-III, or the equivalent, a part of which may be in the New Testament. 3 credit hours.
95. **Greek Literature in Translation.** (Same as English 95.) Greek tragedy and comedy. No previous knowledge of Greek is required for admission to the course, the only prerequisite being two courses in English. 2 credit hours.
96. **Greek Literature in Translation.** (Same as English 96.) The rise and development among the Greeks of epic and lyric poetry, history, oratory, philosophy, romance, and literary criticism. Same prerequisite as for 95. 2 credit hours.
97. **Classic Archaeology** (Same as Archaeology 97). The principal archaeological sites in Greece and the Aegean region. Development of Greek sculpture. Roman sculpture. Given the first semester of even-numbered years. Prerequisites: Anthropology 1 and 2, or the consent of the instructor. 2 credit hours.

LATIN

GROUP REQUIREMENTS. Courses up to and including 92 may be counted toward fulfilling requirements of Group II.

MAJOR STUDY. At least twenty-four hours in courses numbered above 54. A comprehensive examination is required.

MINOR STUDY. Twelve hours in courses numbered above 54.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

- 1-2. **Elementary Latin.** 3 credit hours each semester, but credit is not given for either semester separately. (Not offered 1934-1935.)
- 53-54. **Intermediate Latin.** Intended to meet the demands of those who have had two units of Latin in high school. Selections from various authors, especially Cicero and Ovid. Prerequisite: Two units of high school Latin or Latin 1 and 2. 3 credit hours each semester. (Not offered, 1935-1936.)
- 55-56. **Virgil.** Selections from Virgil with studies in prosody. Prerequisite: two or three units of high school Latin or the equivalent. 3 credit hours each semester.

- 71-72. **Latin Literature.** Selections from Gellius, Sallust, Livy, Catullus, Horace, Phaedrus, Martial, and other writers. Prerequisite: three years of Latin. 3 credit hours each semester. (Not offered, 1935-1936.)
- 81-82. **Latin Grammar and Composition.** Prerequisite: same as for Latin 71. 1 credit hour each semester.
- 91-92. **Latin Literature.** Selections from Seneca, Suetonius, Tacitus, Pliny, Plautus, Terence, and other writers. Prerequisites: Latin 71-72, or permission of the instructor. 3 credit hours each semester.

FOR JUNIORS, SENIORS, AND GRADUATES

(One of the following courses in literature will be given each semester. Prerequisite: 12 credit hours in college Latin.)

151. **Advanced Latin.** Tacitus: *Agricola* and *Germania*, and selections from Seneca or from Suetonius. Outside readings on social conditions in the First Century A. D. 3 credit hours.
152. **Advanced Latin.** Apuleius and Petronius. A study of the development of the Roman novel and of plebeian Latin. Assigned readings. 3 credit hours.
155. **Advanced Latin.** Selected readings from Medieval Latin; studies of peculiarities of grammar and of style. 3 credit hours.
156. **Advanced Latin.** Selections from Horace, Persius, and Juvenal. A study is made of Roman satire. Assigned readings. 3 credit hours.
157. **Advanced Latin.** Catullus, Propertius, and Tibullus. A survey is made of classical lyric poetry. 3 credit hours.
162. **Latin Grammar and Syntax.** Lectures and topics for investigation in the field of historical and comparative grammar and syntax. A reading knowledge of one or more modern foreign languages is expected of each registrant. 3 credit hours.
195. **Problems in the Field of the Major Study.** Original investigations in the fields of grammar, syntax, semantics, dictionary making, private and public life, customs, etc. 2 credit hours.

FOR GRADUATES ONLY

(Graduate work is offered only when circumstances permit. Arrangements should be made in advance.)

300. **Thesis.** 2-6 credit hours.

DEPARTMENT OF HEALTH

JAMES R. SCOTT, Ph.D., M.D., Professor

MYRTLE GREENFIELD, M.A., Chief, Division of Laboratory, State
Health Laboratory

MAJOR STUDY. Not offered.

MINOR STUDY. Not offered.

1. **Personal Health.** A consideration of the principles of healthful living, emphasizing mental and nervous hygiene, immunity and bacteriology in relationship to health, foods, and general care of the body. 2 credit hours.
2. **Community Health.** A consideration of community endeavor for the protection of the health of its citizens. 2 credit hours.
3. **Social Hygiene.** A consideration of the hygiene of sex life. 1 or 2 credit hours.
72. **Educational Hygiene.** A study of the common health defects and their causes, detection, and remedy. The teaching of health in the school. Primarily for prospective teachers. 2 credit hours.
105. **Epidemiology.** A study of the epidemic diseases, emphasizing epidemiological methods and discussing the various epidemic diseases. 2 or 3 credit hours.
106. **The Hygiene of Adult Life.** A consideration of the degenerative diseases of adulthood, with the principles of prevention. Prerequisites: Health 1 and 2. 2 credit hours.
107. **Health Statistics.** An elementary consideration of the principles and applications of health statistics. Prerequisites: Health 1 and 2. 1 or 2 credit hours.
108. **Journal Club.** Regular readings and reports of the leading authoritative health literature. Prerequisites: Health 1 and 2. 2 credit hours.
109. **Rural Hygiene.** The essentials of rural sanitation, including sanitary control of rural homes, rural schools, and rural communities. 2 credit hours.
110. **Methods and Materials in Health Education.** Principles and practices of health teaching in the various school grades are considered. 2 credit hours.

111. **Public Health Law.** Public health laws and regulations, police power, public health law enforcement, etc. 2 credit hours.
122. **Public Health Practice.** A field course given in conjunction with the Bernalillo County Health Department, illustrating the actual field methods and practices used by a county health department. Prerequisites: Health 1, 2, and 105. 1 or 2 credit hours.

DEPARTMENT OF HISTORY

MARION DARGAN, Ph.D., Associate Professor

LANSING B. BLOOM, M.A., Associate Professor

*FRANK D. REEVE, M.A., Assistant Professor

BENJAMIN SACKS, Ph.D., Instructor

WILLIAM MARY BRYANT, M.A., Instructor

MAY STIRRAT, B.A. in Educ., Student Assistant

HISTORY

GROUP REQUIREMENTS. Courses in history are accepted toward fulfillment of the requirement in Group III.

MAJOR STUDY. Thirty hours, including courses 21, 22, 51, 52, and at least fifteen hours in courses numbered above 100.

MINOR STUDY. Eighteen hours, including courses 21, 22, 51, 52, and six hours in courses numbered above 100.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

21. **Medieval History.** From the fall of Rome to the Peace of Westphalia (1648). 3 credit hours. Fee fifty cents.
22. **Modern History.** From the Peace of Westphalia to the present. 3 credit hours. Fee fifty cents.
61. **History of New Mexico.** Offered each semester. Students who have taken courses 125 and 126 will not receive credit for the course. Students who have taken either 125 or 126 will receive one credit hour. This course is not accepted for major or minor credit. 2 credit hours. Fee fifty cents.

*On leave of absence, 1934-1935.

COURSES IN DEPARTMENTS OF INSTRUCTION [193

71. **History of England.** From the earliest times through the reign of James II. Prerequisite: History 21. 3 credit hours.
72. **History of England.** From the reign of William and Mary to the present. Prerequisite: History 22. 3 credit hours.
81. **History of Greece.** Emphasis is placed upon the achievements, movements, and ideas which constitute the debt of modern civilization to the Greeks. 3 credit hours.
82. **History of Rome.** Emphasis is placed upon those achievements, movements, and ideas which constitute the debt of modern civilization to the Romans. 3 credit hours.

FOR JUNIORS, SENIORS, AND GRADUATES

103. **Representative Americans.** A study of the great personalities who have influenced American History. 3 credit hours.
111. **History of the American Frontier.** 3 credit hours.
112. **The Trans-Mississippi West.** 3 credit hours.
125. **History of the Southwest: the Spanish Period.** 3 credit hours.
126. **History of the Southwest under the Rule of México and the United States.** 3 credit hours.
141. **The American Colonies, 1492-1763.** 3 credit hours.
142. **The American Revolution and the Constitution, 1763 to 1789.** 3 credit hours.
151. **American Diplomacy** (Same as Government 151). The foreign relations of the United States from the American Revolution to 1934. Special emphasis is placed on the contributions of recent research. 3 credit hours.
155. **The South in American History.** Not a course in local history, but a study of the influence of one section in our national history. 3 credit hours.
156. **From Jackson to Lincoln.** A continuation of History 155. 3 credit hours.
161. **History of Spain.** Prerequisites: History 21 and 22. 3 credit hours.
164. **History of Mexico.** 3 credit hours.
165. **American Constitutional History.** The origin of the Constitution, the greatest decisions of the Supreme Court, the study of crises which have involved conflicting views of the Consti-

- tution and recent amendments. Prerequisites: History 51 and 52, or Government 51 and 52. 3 credit hours.
171. History of Latin America: the Colonial Period. 3 credit hours.
172. History of Latin America: the National Period. 3 credit hours.
175. The Middle Ages. An advanced course dealing with all phases of Medieval life. Prerequisite: History 21. 3 credit hours.
176. The Renaissance and Reformation. Prerequisites: History 21 and 22. 3 credit hours.
183. Europe from 1789 to 1871. An advanced course beginning with the French Revolution and Napoleon, and coming down to the formation of the German Empire. Prerequisite: History 22. 3 credit hours.
184. Europe from 1871 to the Present. An advanced course placing special emphasis on the origin of the World War and conditions since 1918. Prerequisite: History 22. 3 credit hours.
190. Problems in Recent American History. (Same as Economics 190.) A topical study of the same period since the Civil War. Prerequisite: History 52 or Economics 55 or 105. 3 credit hours.
- 195-196. Advanced Reading Course. Open only to approved seniors and graduates. 1 to 3 credit hours each semester.
198. Historical Method. 3 credit hours.

FOR GRADUATES ONLY

- 251 a, b. Problems. 1-3 credit hours.
300. Thesis. 2-6 credit hours.

DEPARTMENT OF HOME ECONOMICS

ELIZABETH P. SIMPSON, M.S., Professor
SUSAN MOSER, M.S., Instructor

GROUP REQUIREMENTS. Courses 53 and 54 are accepted toward fulfillment of the requirements in Group IV.

MAJOR STUDY IN THE COLLEGE OF ARTS AND SCIENCES.
See curriculum on page 101.

MAJOR STUDY IN THE COLLEGE OF EDUCATION. See curriculum for students preparing to teach home economics on page 131.

MINOR STUDY. Courses 11, 12, 14, and twelve hours in courses numbered above 50.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

11. **Clothing Selection.** Selection of clothing from the standpoint of artistic, economic, and hygienic standards. Open to students other than Home Economics majors. No prerequisite. Three lecture periods per week. 3 credit hours. Fee \$1.00.
12. **Clothing Construction.** Construction of garments, emphasizing technique and application of art principles to garments. Problems in wash materials. Prerequisite: Home Economics 11. To be taken concurrently with course 14. Two 2-hour laboratory periods per week. 2 credit hours. Fee \$1.00.
14. **Textiles.** Construction, color, finish, and other factors that affect the wearing qualities and value of household materials. Open to students other than Home Economics majors. No prerequisites. Two lectures and one 2-hour laboratory period per week. 3 credit hours. Fee \$2.00.
53. **Food Selection and Preparation.** Selection and preparation of foods, emphasizing nutritive value and palatability. Fundamental principles of nutrition. One lecture and two 2-hour laboratory periods per week. 3 credit hours. Fee \$5.00.
54. **Food Selection and Preparation.** Continuation of course 53. Principles of cookery applied to problems in baking, salads, and desserts; six-week unit in preparation and serving meals. Prerequisite: Home Economics 53. One lecture and two laboratory periods per week. 3 credit hours. Fee \$5.00.
61. **Dressmaking.** Fundamental principles of garment construction applied to tailored garments in wool; children's clothing; adaptation of patterns. Textile buying and advanced study of textiles. Prerequisite: Home Economics 12. One lecture and two 2-hour laboratory periods per week. 3 credit hours. Fee \$1.00.

62. **Dressmaking.** Continuation of course 61. Problems in silk. Studies of historic costume. One lecture and two 2-hour laboratory periods per week. 3 credit hours. Fee \$1.00.

FOR JUNIORS AND SENIORS

104. **Nutrition.** Primarily for Physical Education majors. The purpose is to teach the relation of nutrition to the health program. The essentials of an adequate diet and the nutritive properties of common foods; the choice of foods for types of individuals during different kinds of physical exercise; corrective diets, the selection and preparation of dietaries for outdoor life. Two hours per week. 2 credit hours.
107. **Advanced Foods.** Food economics. Household marketing; a study of grades and qualities of food products found on the market; factors governing cost; food laws; history of cookery. Prerequisites: Home Economics 54 and Chemistry 68. One lecture and two laboratory periods per week. 3 credit hours. Fee \$5.00.
127. **Dietetics.** Food requirements in normal nutrition. Calculation and preparation of dietaries. Prerequisite: Home Economics 107. 4 credit hours.
132. **Household Management.** An application of the principles of scientific management to the home; management of household operation and finances; family and community relationships. 3 credit hours.
138. **Child Care and Development.** The growth and development of the young child. 3 credit hours.
182. (Formerly 181.) **Meal Planning and Serving.** Dietetic, economic, and aesthetic aspects of meal service; experience in the selection and purchase of food for the meals planned. Dietetic values estimated. Prerequisites: Home Economics 107 and 127. 4 credit hours. Fee \$5.00.
194. **Teachers' Course.** Principles underlying curriculum construction; methods of presentation; equipment and textbooks. 3 credit hours.
196. **Home Economics Seminar.** 1 or more credit hours.

LATIN

See Greek and Latin.

DEPARTMENT OF LIBRARY SCIENCE

WILMA LOY SHELTON, B.L.S., Associate Professor

1. **Elementary Library Science.** Introduction to library methods, with a survey of cataloging, classification, and the sources of printed matter, with methods and practice in search for information in standard reference books, periodicals, government publications, scientific and technical literature. 2 credit hours. Offered both semesters.
51. **History of Printing and Bookmaking.** A non-technical survey of such topics as the history of writing materials, writing and printing processes, the different book formats, modes of book and manuscript circulation and preservation. Includes a brief study of modern printing and engraving processes, modern methods of book distribution and the recognition of types of rare books. 3 credit hours.

DEPARTMENT OF MATHEMATICS

CARROLL V. NEWSOM, Ph.D., Professor

CHARLES A. BARNHART, M.A., Professor

MABEL S. GRAHAM, M.A., Part-time Instructor

LIONEL MCCRAY, Student Assistant

GROUP REQUIREMENTS. Students in the College of Arts and Sciences and the College of Education may select Mathematics 1, 11, 12, 15, 16, or 81 toward fulfilling the requirements of Group IV.

MAJOR STUDY. Twenty-four hours in courses numbered above 50. Engineering 51, 55, 56, and 60 may be counted toward a major.

MINOR STUDY. Twelve hours in courses numbered above 50.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

1. **Solid Geometry.** In this course particular attention is given to solid mensuration and to computation methods. Required of Engineering students before registration in calculus. Prerequisites: high school algebra, 1 unit; plane geometry, 1 unit. 3 credit hours.

11. **General Mathematics.** Especially adapted to students who desire the mathematics preparatory to the study of social science. Recommended also for students who want a general view of the field of mathematics in a short period of time. Such topics are considered as logarithms, exponentials, compound interest, annuities, probability, and the solution of equations. Prerequisites: high school algebra, 1 unit; plane geometry, 1 unit. 3 credit hours.
12. **General Mathematics.** A continuation of course 11. The emphasis is placed in this course upon graphical processes. Prerequisites: Mathematics 11 or 15. 3 credit hours.
15. **College Algebra.** An introductory course in which fundamentals are emphasized. Prerequisites: high school algebra, 1 unit; plane geometry, 1 unit. 3 credit hours.
16. **Plane Trigonometry.** A study of the properties of the trigonometric functions and their application to the solution of triangles. Prerequisites: high school algebra, 1 unit; plane geometry, 1 unit. 3 credit hours.
22. **Plane Analytic Geometry.** An introduction to the study of graphs including especially the conic sections. Prerequisites: Mathematics 15 and 16, or 11 and 16. Mathematics 16 may be taken simultaneously. 3 credit hours.
53. **Differential Calculus.** An analysis of the derivative both with respect to its origin and to its application to problems involving a rate of change. Prerequisites: Mathematics 22, or 12 and 16. Mathematics 22 may be taken simultaneously. Also note Mathematics 1. 4 credit hours.
54. **Integral Calculus.** A consideration of the process which is the converse of differentiation. The definite integral is treated in relation to its application to geometry and physics. Prerequisite: Mathematics 53. 4 credit hours.
81. **General Astronomy.** Essentially a lecture course embracing a study of the solar system and stellar phenomena. Not open to freshmen. 2 credit hours.

FOR JUNIORS, SENIORS, AND GRADUATES

(The following will be given as facilities permit. Applicants for advanced work should consult the head of the department in advance.)

101. **Higher Algebra.** A study of selected topics giving special emphasis to theory and methods. Prerequisite: Mathematics 12 or 22. 3 credit hours.

COURSES IN DEPARTMENTS OF INSTRUCTION [199

- 102-103. **College Geometry.** A consideration of advanced Euclidean geometry. Prerequisite: Mathematics 12 or 22. 3 credit hours each semester.
104. **Foundation of Mathematics.** A critical study of the construction of a mathematical system. Modern controversies will be reviewed. Prerequisite: Mathematics 54. 2 credit hours.
106. **Mathematics of Finance.** A mathematical treatment of the fundamental problems of finance. Such topics are considered as interest, discount, annuities, bonds, depreciation, loan associations, and insurance. Accepted for major credit by the Department of Economics. Prerequisite: Mathematics 12 or 15. 3 credit hours.
113. **Theory of Determinants.** Prerequisite: Mathematics 53. 2 credit hours.
115. **Theory of Equations.** Prerequisite: Mathematics 53. 3 credit hours.
121. **Analytic Geometry of Space.** An extension of the analytical study of plane curves to figures in three dimensional space. Prerequisite: Mathematics 54. 3 credit hours.
131. **Theory of Statistics.** A course designed to supplement courses in statistics offered in other departments. Theory is especially stressed. Prerequisite: Mathematics 12 or 22. 3 credit hours.
141. **Mathematical Theory of Economics.** A demonstration of the modern mathematical treatment of economic and sociological problems. Prerequisite: Mathematics 12 or 54. 3 credit hours.
151. **Advanced Calculus.** A lecture and problem course upon selected topics in analysis. Prerequisite: Mathematics 54. 3 credit hours.
152. **Differential Equations.** A course limited to a consideration of differential equations of elementary type. Applications are drawn from all of the sciences. Prerequisite: Mathematics 54. 3 credit hours.
162. **The Teaching of Mathematics.** A study of content and method of presentation in the present secondary mathematics course. Prerequisite: Mathematics 12 or 22. 3 credit hours.

172. **History of Mathematics.** Mathematics is studied in relation to other factors in history. A course which is valuable to teachers of mathematics as well as to others interested in the cultural aspects of mathematics. Prerequisite: at least one course in college mathematics. 3 credit hours.
- 181-182. **Problems.** Individual investigation upon selected topics for properly qualified upper classmen. Prerequisite: registration for this course by permission only. 1-2 credit hours each semester.
191. **Theory of Functions of a Real Variable.** Prerequisite: Mathematics 54. 3 credit hours.
192. **Theory of Functions of a Complex Variable.** Prerequisite: Mathematics 54. 3 credit hours.

FOR GRADUATES ONLY

- 251 a, b. **Problems.** Reading and research upon selected topics. Prerequisite: registration for this course by permission only. 1-3 credit hours each semester.
300. **Thesis.** 2-6 credit hours.

DEPARTMENT OF MODERN LANGUAGES AND LITERATURE

F. M. KERCHEVILLE, Ph.D., Professor
 JOHN E. ENGLEKIRK, JR., Ph.D., Assistant Professor
 WILLIAM F. DE JONGH, M.A., Assistant Professor
 ARTHUR L. CAMPA, M.A., Assistant Professor
 CLINTON H. S. KOCH, M.A., Instructor
 MELA SEDILLO BREWSTER, B.A., Special Instructor
 KATHERINE HAMMOCK, B.A. in Educ., Graduate Fellow
 RITA SANCHEZ, B.A. in Educ., Graduate Fellow
 IVAH SHALLENBERGER, B.S., Graduate Fellow, part-time

ENTRANCE REQUIREMENTS. Students presenting one unit in French, German, or Spanish may enroll in French 2, German 2, or Spanish 2 at the beginning of the second semester. Students presenting two high school units in French or German may enroll in French 51 or German 51. Students presenting two or three units in Spanish may enroll in Spanish 20, 41, 51, or 53, depending upon their aims in studying Spanish, and their preparation and ability.

Students presenting four units in Spanish cannot receive credit in courses below Spanish 91, and these students should enroll in Spanish 91. Students presenting three or four units in French or German will be placed in proper courses upon the advice of the instructor concerned and the approval of the head of the department.

RELATED SUBJECTS. Students with a major in French, Spanish, or Hispanic Studies are urged to take courses in Roman and Western European history; in Spanish, Latin-American, or New Mexican history; in Greek and Roman mythology; and in other languages.

GROUP REQUIREMENTS. The requirements of Group II are met by courses in French, German, and Spanish, but not by courses in Hispanic Studies.

PREREQUISITES. Where no prerequisite is specified, students may be placed in courses upon the advice of the instructor and approval of the head of the department.

FRENCH

MAJOR STUDY. Twenty-four hours in courses numbered above 50. A French major requires a minor in Spanish or Latin.

MINOR STUDY. Twelve hours in courses numbered above 50.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

- 1-2. **Elementary French.** Credit not given for either semester separately. 4 credit hours each semester.
- 51-52. **Intermediate French.** Intermediate grammar, reading, and translation. Prerequisites: French 1 and 2, or two high school units. 3 credit hours each semester.

FOR JUNIORS, SENIORS, AND GRADUATES

- 101-102. **Advanced Composition and Conversation.** This course must be accompanied or preceded by an advanced course in French literature. 3 credit hours each semester.
- 105-106. **French Literature of the Nineteenth Century.** Prerequisites: French 51-52, or equivalent work. 3 credit hours each semester.

- 151-152. Survey of French Literature from the Renaissance to the French Revolution. Prerequisites: French 51-52, or equivalent courses. 3 credit hours each semester.

GERMAN

MAJOR STUDY. Not offered.

MINOR STUDY. Twelve hours in courses numbered above 50.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

- 1-2. Elementary German. Credit not given for either semester separately. 4 credit hours each semester.
- 51-52. Intermediate German. In German 51, reading of modern literature, with some emphasis on speed; in German 52, reading in scientific German. Prerequisites: German 1 and 2, or two high school units. 3 credit hours each semester.
61. Post-war Literature. Study of German literature written since the World War. 3 credit hours.
62. Scientific German. A continuation of German 52, with readings in psychology, chemistry, and archaeology. For students working for degrees in these fields. 3 credit hours.

FOR JUNIORS AND SENIORS

- 151-152. Survey of German Literature. First semester, to the end of the Eighteenth Century; second semester, Nineteenth and Twentieth Centuries. Lectures and class reports. 3 credit hours each semester.

SPANISH

MAJOR STUDY. Twenty-four hours in courses numbered above 50, including Spanish 153; and two years of college work in French or Latin. All Spanish majors are urged to take French as a minor, if possible.

MINOR STUDY. Twelve hours in courses numbered above 50.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

- 1-2. Elementary Spanish. Credit not given for either semester separately. 4 credit hours each semester.

COURSES IN DEPARTMENTS OF INSTRUCTION [203

20. **Review of Fundamentals.** First semester only. A thorough review, with college credit, of the fundamental principles of Spanish grammar, together with the reading of at least one intermediate text. This course does not count toward the fulfillment of the requirement in Group II. 3 credit hours.
25. **Practical Elementary Phonetics.** Designed primarily for those students wishing to perfect their pronunciation of both English and Spanish. 1 credit hour.
- 39-40. **Commercial Spanish.** A course in business terms and commercial letter writing. 2 credit hours each semester.
41. **Intermediate Spanish.** This course is divided into three sections, A, B, and C, according to the different aims of the study of Spanish. In section 41A, the primary stress is on grammar and composition. Section 41B stresses reading. Conversation, or a speaking knowledge of Spanish, is the primary aim of section 41C. Prerequisites: Spanish 1 and 2, or the equivalent. 3 credit hours.
- 51-52. **Intermediate Reading.** Selected readings and conversation. This is a basic course intended for Spanish majors and minors. Spanish 51 is repeated the second semester and carries major credit. 3 credit hours each semester.
- 53-54. **Intermediate Composition.** Class compositions and conversation. 2 credit hours each semester.
- 55-56. **Play Production, Pageantry, and Folk Dancing.** A course designed especially for teachers and prospective teachers of Spanish. Reading, writing, and production of plays in Spanish. 2 credit hours each semester.
61. **Short Story.** Readings and class reports on outstanding short stories of Spanish literature. 3 credit hours.
- 91-92. **Advanced Reading.** Selected advanced class readings and conversation. Recommended for students who expect to major in Spanish. Prerequisites: Spanish 51-52, four years of high school Spanish, or the equivalent. 3 credit hours each semester.

FOR JUNIORS, SENIORS, AND GRADUATES

- 103-104. **Advanced Composition and Conversation.** Designed to develop fluency in speaking and writing Spanish. Prerequisites: Spanish 51, 52, 53, and 54, or permission of the head of the department. 3 credit hours each semester.

- 107-108. **Spanish Novel.** The first semester outlines the beginning and development of the novel. The second semester takes up the study of the Spanish novel of the Nineteenth and Twentieth Centuries. 3 credit hours each semester.
- 121-122. **Evolution of the Spanish Drama.** The first semester outlines briefly the important dramatists, and places emphasis upon the principal dramatists of the Golden Age. The second semester emphasizes the Nineteenth and Twentieth Centuries. 2 credit hours each semester.
131. **Advanced Spanish Grammar.** Designed to give a thorough understanding of Spanish grammar and syntax. Urged for all who intend to teach or make other practical use of Spanish. Prerequisites: Spanish 103-104, or the equivalent. 2 credit hours.
132. **Stylistics.** Designed to develop naturalness and ease in the use of the language. Prerequisite: Spanish 131 or the equivalent. 2 credit hours.
150. **Modern Language Masterpieces.** A study of the outstanding masterpieces of Romance literatures. 2 credit hours.
- 151-152. **General Survey of Spanish Literature.** The first semester covers the period before 1700; the second semester emphasizes the Nineteenth and Twentieth Centuries. Prerequisites: Spanish 91-92. 3 credit hours each semester.
153. **Phonetics.** Designed to correct defects of pronunciation by scientific study of the sounds of the language. Required of all Spanish majors. 2 credit hours.
154. **Spanish Intonation.** The proper voice inflection in Spanish conversation, prose, poetry, and dramatic literature. Second semester. Prerequisite: Spanish 153. 2 credit hours.
155. **Problems Seminar.** For juniors and seniors. 2-4 credit hours.
- 157-158. **General Survey of Spanish-American Literature.** The first semester covers the period before 1818; the second semester emphasizes contemporary letters. Prerequisites: Spanish 151-152. Required of all candidates for the master's degree in Spanish. 3 credit hours each semester.
171. **Lyric Poetry.** The development of lyric poetry in Spain, from the earliest efforts of the troubadours to the present time. Required of all candidates for the master's degree in Spanish. 2 credit hours.

191. **Course for Teachers.** An analysis and discussion of the various practical methods of language instruction. Required of all majors who intend to teach Spanish or other modern languages. 2 credit hours.

FOR GRADUATES ONLY

201. **Historical Spanish Grammar.** The principal laws involved in the evolution of Spanish from Latin. Required of all candidates for the master's degree in Spanish. 2 credit hours.
202. **Old Spanish Readings.** Designed as a practical supplement to Spanish 201, illustrating practical application of historical laws. 2 credit hours.
251. **Problems.** 2-4 credit hours.
300. **Thesis.** 2-6 credit hours.

HISPANIC STUDIES

Besides the courses offered for a major in Spanish language and literature, the Department of Modern Languages offers a course of study called Hispanic Studies. A major in this division of the department is intended to give the student a comprehensive background of Spanish life and culture looking toward a better understanding of the social, educational, and cultural problems of the American Southwest. Prerequisites for registration in this course are

Completion of Spanish 52 and 54, or the equivalent;
 Anthropology 1 and 2 (General Anthropology);
 Archaeology 62 (Archaeology of the Southwest);
 Economics 43 (Economic Resources);
 All lower division requirements.

MAJOR STUDY. Thirty semester hours in courses listed below, together with a minor in Spanish, are required for a major in Hispanic Studies. Required courses are marked with asterisks (*) ; others are elective.

- *History 126 (Southwest)
- *History 161 (Spain)
- History 164 (Mexico)
- History 171 (Latin America: Colonial Period)
- History 172 (Latin America: National Period)
- *English 141 (Shakespeare)

- English 142 (Elizabethan Drama)
- English 149 (Contemporary Drama)
- Spanish 107-108 (Novel)
- *Spanish 115 (Southwestern Folklore)
- *Spanish 116 (Folk Drama)
- Spanish 121-122 (Drama)
- *Spanish 161 (Folk Tales)
- *Spanish 162 (Folk Ballads and Songs)
- Spanish 171 (Lyric Poetry)
- *Spanish 181 (Spanish Civilization)
- *Spanish 182 (Mexican Civilization)

MINOR STUDY. A minor in Hispanic Studies consists of twelve semester hours in the following courses: History 126 or History 161, English 141, Spanish 115, Spanish 162, and Spanish 181. A minor in Hispanic Studies pre-supposes at least two years of college Spanish or the equivalent.

FOR JUNIORS, SENIORS, AND GRADUATES

- 115. **Southwestern Folklore.** A general course designed to acquaint the student with the types of lore developed in the Southwest, with special stress on New Mexico. 2 credit hours.
- 116. **Folk Drama.** Secular and religious drama of the Southwest, beginning with the Spanish occupation. Students enrolling in this course and not interested in Hispanic Studies must have a good reading knowledge of the Spanish language. 2 credit hours.
- 161. **Folk Tales.** Development of the folk tale in Europe and its subsequent spread in Spanish America. 2 credit hours.
- 162. **Folk Ballads and Songs.** Spanish balladry and its introduction and spread in the New World, particularly in New Mexico. 2 credit hours.
- 181. **Spanish Civilization.** A course conducted in Spanish, consisting of lectures and class reports dealing with Spain's contributions to civilization in the realms of language, literature, fine arts, and religion. 2 credit hours.
- 182. **Mexican Civilization.** A course conducted in Spanish, similar to 181, but dealing with Mexico and the Mexican peoples. 2 credit hours.

PAN-AMERICAN INSTITUTE

The Department of Modern Languages sponsors each year a bi-lingual Pan-American institute. This institute, of several days' duration, is intended primarily as a laboratory for Spanish majors, and participation in its work is strongly recommended for students majoring in Spanish or Hispanic Studies.

DEPARTMENT OF MUSIC

GRACE THOMPSON, B.Mus., Associate Professor

LENA CECILE CLAUVE, M.A., Associate Professor of Public School
Music

BERNARD HELFRICH, B.Mus., Assistant Professor of Theory and
Instructor in Piano

BESS CURRY REDMAN, B.A. in Educ., Instructor in Voice

HELENE R. WOYTYCH, B.A., Instructor in Violin

NINA M. ANCONA, B.A., Instructor in Pipe Organ, Piano, and Music

WILLIAM M. KUNKEL, Instructor in Band and Wood Wind
Instruments

MARIA-ELISE JOHNSON RODEY, Instructor in Violin

MAJOR STUDY. Twenty-four hours in one field of applied music (voice, piano, violin, pipe organ), twelve hours of theory, and four hours selected from the miscellaneous group.

MINOR STUDY. Twelve hours in one field of applied music, four hours of theory, and four hours from the miscellaneous group.

PUBLIC SCHOOL MUSIC. For a major or minor in this field, see curricula in the College of Education.

SPECIFIC COURSES. Specific courses for major or minor credit must be selected with the advice and consent of the head of the department.

RECITALS AND PUBLIC EXERCISES. Each student of piano, voice, violin, and organ is required to give one successful performance in recital during the junior and senior years, and all music students are required to attend all

studio recitals, and to take part in recitals and public exercises.

FEES. Additional fees are charged as follows:

Piano, pipe organ, violin, voice, wind instruments, per lesson ($\frac{1}{2}$ hour) -----	\$1.25
Piano rental, per semester -----	5.00
Pipe organ rental, per hour -----	.25

THEORY OF MUSIC

- 53-54. (Formerly 1-2.) **Harmony.** Prerequisites: Music 3-4. 2 credit hours each semester.
- 105-106. (Formerly 51-52.) **Counterpoint.** Prerequisites: Music 53-54. 2 credit hours each semester.
- 151-152. (Formerly 101-102.) **Form and Analysis.** Prerequisites: Music 53-54 and 105-106. 2 credit hours each semester.
- 191-192. (Formerly 103-104.) **Composition.** Prerequisites: Music 151-152. 2 credit hours each semester.

MUSIC METHODS

173. **Music Education.** Kindergarten and grades. 3 credit hours.
174. **Music Education.** Junior and senior high school. 3 credit hours.
- 177-178. **Orchestration.** Public school conducting and orchestration; study of the instruments of the orchestra; orchestra material. Prerequisites: Music 3-4. 2 credit hours each semester.
- 179-180. **Operettas and Their Production.** A study of operettas for grade and high school work with experience in giving some productions. Open only to seniors who have completed three years of required work. 2 credit hours each semester.

MISCELLANEOUS

- 3-4. (Formerly 61-62.) **Ear Training and Sight Reading.** Reading of folk songs; two, three, and four-part songs; study of rhythms, in reading material; style of intervals, scales, and modulations. Dictation, oral and written. 2 credit hours each semester.
- 63-64. **Advanced Ear Training and Sight Reading.** 2 credit hours each semester.

161-162. History of Music. An historical survey of the growth of music to the present day. A biographical study of great composers and their important compositions. Music in the United States. 2 credit hours each semester.

163-164. Music Appreciation. Designed to cultivate an intellectual attitude in listening to music without over-emphasizing the technical nature of a musical composition. Recommended for all students. 2 credit hours each semester.

APPLIED MUSIC

Students will generally be able to complete each of the following courses at the rate of two half-hour lessons a week with outside practice in each case. Students who do not care to carry at any time so heavy a course in piano may register for one lesson a week.

PIANO

In order to be eligible for registration in piano with major in view, applicants must have had satisfactory training in Hanon's Exercises, Easy Studies of Koehler, Little Preludes of Bach, or the equivalent. Beginners in piano are not allowed a major in piano.

1a,b-2a,b. Freshman Course. Hand culture, finger exercises, suitable etudes and compositions. One or two private lessons per week. 2 or 4 credit hours each semester.

51a,b-52a,b. Sophomore Course. Composition designed to develop artistic appreciation and interpretation. Exercises to increase ability, accuracy, and endurance. One or two private lessons a week. 2 or 4 credit hours each semester.

101a,b-102a,b. Junior Course. Selections of concert grade. Appearances in recital and ensemble are required. A maximum of eight credit hours may be earned in this course. Two private lessons a week and prescribed outside practice. 4 credit hours each semester.

151a,b-152a,b. Senior Course. A public recital from memory is required at the end of the senior year. A maximum of eight credit hours may be earned in this course. One or two private lessons a week and prescribed outside practice. 2 or 4 credit hours each semester.

195a,b-196a,b. Advanced Studies in Repertoire. Prerequisites: Piano 151, 152. One or two lessons a week. 2 or 4 credit hours each semester.

PIPE ORGAN

Prerequisite for pipe organ: freshman and sophomore piano, as described above.

1a,b-2a,b. Freshman Course. Pedal exercises, exercises for independence between manuals and pedals, registration, and hymn playing. Prerequisites: Piano 1, 2, 51, and 52. One or two private lessons a week and additional prescribed practice. 2 or 4 credit hours each semester.

51a,b-52a,b. Sophomore Course. Special attention to solo and choir accompaniment, practice in sight reading, and music for use in church services. One or two private lessons a week and additional prescribed practice. 2 or 4 credit hours each semester.

101a,b-102a,b-151a,b-152a,b. Advanced Courses for Juniors and Seniors. Advanced compositions suitable for church and concert use. Particular attention will be given to interpretation and registration, and individual needs of students. One or two private lessons a week and additional prescribed practice. 2 or 4 credit hours each semester.

VIOLIN

Students generally will be able to complete each of the following courses at the rate of two half-hour lessons a week, and outside practice as prescribed in each case. Students are expected to attain such standards of proficiency as are established for each year's work, and those who fail to do so are required to re-register in the same course for no additional credit in order to attain eligibility for registration in the next following course.

1a,b-2a,b. Freshman Course. Thorough grounding in fundamentals. Exercises and pieces selected according to the needs and temperament of individual students. A maximum of eight credit hours may be earned in this course. One or two private lessons a week and outside prescribed practice. 2 or 4 credit hours each semester.

51a,b-52a,b. Sophomore Course. Further study of bowing and of technique; double-stopping and natural harmonics, major and minor scales. A maximum of eight credit hours may be earned in this course. One or two private lessons a week and outside prescribed practice. 2 or 4 credit hours each semester.

101a,b-102a,b. Junior Course. Advanced work in the different varieties of bowing; scales, chords, double-stopping, and ad-

COURSES IN DEPARTMENTS OF INSTRUCTION [211

vanced technique. Selections studied will be of concert grade. Orchestral and ensemble playing. Junior recital required. A maximum of eight credit hours may be earned in this course. Two private lessons a week and outside prescribed practice. 4 credit hours each semester.

151a,b-152a,b. **Senior Course.** Concertos, sonatas, and pieces suited to advanced students. Senior recital required. A maximum of eight credit hours may be earned in this course. Two private lessons a week and outside prescribed practice. 4 credit hours each semester.

195a,b-196a,b. **Advanced Courses.** Prerequisites: Violin 151, 152. One or two lessons a week. 2 or 4 credit hours.

WOOD WIND AND BRASS WIND INSTRUMENTS

Courses in wood wind and brass wind instruments are offered according to the demand. Standard books of instruction are used, fitted to the grade of the student.

VOICE

The instructions in these courses are adapted to meet the needs of individuals who wish to study the art and science of singing. The object of these courses is to teach the fundamental laws of phonetics and breath control so that a pupil may attain an advanced degree of proficiency. Pupils may register for one or two lessons a week, for two or four credit hours.

1a,b-2a,b. **Freshman Course.** Practical work in voice placing, including simple exercises and vocalizes from Concone Op. 9 and P. Sieber, vol. 112. Simple English songs. One or two private lessons a week and outside preparation. 2 or 4 credit hours each semester.

51a,b-52a,b. **Sophomore Course.** Progressive tone work: Concone Bonoldi, vol. 117. Simple Italian and English songs. One or two private lessons a week and outside preparation. 2 or 4 credit hours each semester.

101a,b-102a,b. **Junior Course.** Tone work; advanced technique. Simple arias from Italian and French operas; simple German songs; modern French and English songs. Junior recital. One or two private lessons a week and outside preparation. 2 or 4 credit hours each semester.

151a,b-152a,b. **Senior Course.** Advanced technical studies for the development of proper tone production and breath control.

Repertoire in opera and oratorio. Public appearance as prescribed. Senior recital. One or two private lessons a week and outside preparation. 2 or 4 credit hours each semester.

195a,b-196a,b. **Advanced Courses.** Studio recitals required. Prerequisites: Voice 151-152. One or two lessons a week. 2 or 4 credit hours each semester.

ENSEMBLE MUSIC

Each year courses are organized in ensemble music, consisting of orchestra (Music 33-34), band (Music 41-42), chorus for men (Music 21-22), chorus for women (Music 23-24), and chorus for mixed voices. The chorus courses include instruction and practice in sight reading. Open to all qualified students, tests for qualifications being held during freshman week. Freshmen will not receive credit for ensemble music, and not more than four semesters' credit can be counted toward graduation. Two meetings a week. 1 credit hour each semester.

Freshman and sophomore students who enroll for band and make grades of C or better may be exempted from physical education for this work, semester for semester. No credit for band, as music, will be allowed in the sophomore year if physical education exemption is granted for this work. Three meetings a week, two for band practice and one for drill. 1 credit hour.

DEPARTMENT OF PHILOSOPHY

JAY C. KNODE, Ph.D., Professor

FRANK FALKENBURG, Student Assistant

GROUP REQUIREMENTS. All courses numbered above 40 are accepted toward the requirement in Group III.

MAJOR STUDY. Not offered.

MINOR STUDY. Not offered.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

1. **Orientation.** Required of all freshmen, and comprising: lectures covering the various fields of knowledge by heads of University departments, vocational information, and consideration of student problems. The course is divided into sections. Engineering students take sectional work in their own college, and one section of selected students is permitted to combine the course with Government 1 for additional credit. 2 or 3 credit hours.

32. **Trends of Civilization.** An elementary survey of the evolution of man, his cultures, and later developments. Biographies of several great contributors to Western civilization will be read. 2 credit hours.
41. **American Thought.** An analysis of origins and trends of American thought, and an attempt to formulate elements entering into characteristic American outlooks upon both past and modern life. Numerous books representative of present day currents of thinking are used. One lecture, one period of discussion, and one quiz each week. 3 credit hours.
44. **Human Problems.** Study and discussion of such questions as: the search for order, science as generalization, the limits of freedom, the making of social changes, etc. A special study is made of significant modern books dealing with current problems. 3 credit hours.
52. **Introduction to Philosophy.** A study of the function of philosophy and its various approaches to human problems. Special emphasis is given to the relation of philosophy to science. Lectures and class discussions. 2 credit hours.
53. **Processes of Thinking.** An introductory course dealing with correct reasoning and logical analysis, hindrances and aids to various types of thinking, and principles of thinking involved in certain fields of knowledge. Offered in alternate years. 2 credit hours.
57. **Introduction to Esthetics.** A survey of the various theories of beauty and introductory study of such problems as esthetic types, phases and movements of art, the field and methods of esthetics, and the relation of art to life. Offered in alternate years. 2 credit hours. (Not offered in 1935-1936.)
62. **History of Western Thought.** A rapid survey of the work of outstanding philosophic thinkers and various systems of thought from the times of ancient Greece to the present, with considerable attention to their effects upon contemporary thinking. Offered in alternate years. 3 credit hours.
64. **Survey of Modern Religious Thought.** A study of religion in the modern world, particularly as affected by current movements in science, art and philosophy, but with considerable reference to historic backgrounds. Offered in alternate years. 3 credit hours. (Not offered in 1935-1936.)

FOR JUNIORS AND SENIORS

174. **Philosophy of Education.** (Same as Education 174.) Major movements in the development of our American educational system, with emphasis upon the sociological and philosophical aspects and the aims of education. 3 credit hours.

DEPARTMENT OF PHYSICAL EDUCATION

GWINN HENRY, B.A., Director of Athletics and Coach

ROY W. JOHNSON, B.A., Professor and Coach

MARY CHESIRE, B.S. in P.E., Instructor

MAURICE M. MOULDER, B.A., Assistant Coach

VIRGINIA DANCE, B.S. in P.E., Assistant

J. C. MACGREGOR, Special Instructor in Fencing

*JAMES E. SADLER, Special Instructor in Horseback Riding

JESSE L. FINLEY, Sergeant, U. S. Army, Special Instructor
in Horseback Riding

W. A. GEKLER, M.D., University Physician and Special Lecturer

EMILIO LOPEZ, Student Assistant

The following courses have two objectives: to correct physical defects and weaknesses, and to supply the needs of students in accordance with modern demands.

PHYSICAL EDUCATION FOR MEN

REQUIRED COURSES. Physical Education 1, 2, 51, and 52 are required of all men students for graduation. Participation in major sports can be counted toward meeting this requirement and may be substituted in some cases for the courses in gymnasium work indicated.

MAJOR STUDY. A major in physical education is offered only in the College of Education. Students are required to complete all courses listed in the curriculum, pass a swimming test, and participate in at least one major sport.

MINOR STUDY. A minor in physical education is offered only in the College of Education. A minor may be taken in either athletic coaching or formal physical education consisting of twenty-five hours in physical education and biology, not including Physical Education 1, 2, 51, and 52. Stu-

*Resigned, November 11, 1934.

dents are required to participate in a major or minor sport, as a player or student manager.

UNIFORM FOR REQUIRED COURSES. White cotton trunks, a jersey, and basketball or tennis shoes are required for both semesters. A swimming suit is required for the second semester.

FEES. All physical education students must pay a towel fee of \$1.00 per semester.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

- 1-2. **Freshman Course.** Setting up exercises, elementary floor and apparatus work, games involving agility. Required of freshmen and upper classmen who do not have credit for a similar course. Three hours per week. 1 credit hour each semester.
- 1g-2g. **Fencing.** 1 credit hour each semester. Fee \$3.00 each semester.
21. **Principles and History of Physical Education.** From the time of the Greeks to the present day. 2 credit hours.
22. **Theory and Practice of Basketball.** 2 credit hours.
- 51-52. **Sophomore Course.** Advanced floor and apparatus work, and games such as wrestling, boxing, fencing, swimming, etc. Required of all sophomores and upper classmen who do not have credit for a similar course. No credit will be given in course 52 unless the required swimming tests are successfully completed. Three hours per week. 1 credit hour each semester.
- 51g-52g. **Fencing.** 1 credit hour each semester. Fee \$3.00 each semester.
61. **Theory and Practice of Football.** 2 credit hours.
62. **Theory and Practice of Track and Field Athletics and of Baseball.** 2 credit hours.

FOR JUNIORS AND SENIORS

101. **Theory and Practice of Physical Education Activities, including Natural Gymnastics.** 2 credit hours.
102. **Theory and Practice of Combative Sports: Boxing, Wrestling, Fencing, etc.** 2 credit hours.

- 135. **Corrective Gymnastics.** 2 credit hours.
- 136. **Theory of Coaching, Strategy, and Tactics.** Prerequisites: Physical Education 21, 22, 61, and 62. 2 credit hours.
- 162. **Theory and Practice of Swimming and Various Minor Sports.** 2 credit hours.
- 165. **Theory and Practice of Intramural and Mass Athletics, Playground and Community Sport, and Service Work.** 2 credit hours.
- 183-184. **Practice Coaching.** Prerequisite: senior standing. 2 credit hours each semester.
- 186. **Seminar and Thesis.** For all majors in physical education. 2 credit hours.

PHYSICAL EDUCATION FOR WOMEN

REQUIRED COURSES. Physical Education 5, 6, 55, and 56 are required of all women students for graduation.

MAJOR STUDY. A major in physical education is offered only in the College of Education. Students are required to complete all courses listed in the curriculum and participate in at least one team sport, one individual sport, and eurythmics.

MINOR STUDY. A minor in physical education is offered only in the College of Education. The minor consists of twelve hours not including Physical Education 5, 6, 55, and 56.

UNIFORM. White blouse, black knickers, white socks, and high, all white tennis shoes are required.

FEES. All physical education students must pay a towel fee of \$1.00 per semester.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

- 5-6. **Freshman Course.** Adapted to the needs of the students as revealed by their physical examinations. Swimming, tennis, soccer, speedball, hockey, volley ball, posture training, gymnastics, dancing, basketball, baseball, archery, and track and field athletics. Required of all freshmen and of upper class students who do not have credit for a similar course. Three hours per week. 1 credit each semester.

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5e-6e. Horseback Riding. 1 credit hour each semester. Fee \$10.00 each semester.

5g-6g. Fencing. 1 credit hour each semester. Fee \$3.00 each semester.

55-56. Sophomore Course. Swimming, tennis, field hockey, soccer, speedball, volley ball, posture training, gymnastics, dancing, basketball, baseball, archery, track and field athletics. Prerequisites: Physical Education 5 and 6. Required of all second year students. 3 hours per week. 1 credit hour each semester.

55e-56e. Horseback Riding. Cannot be taken for credit if credit has been earned in 5e-6e. 1 credit hour each semester. Fee \$10.00 each semester.

55g-56g. Fencing. 1 credit hour each semester. Fee \$3.00 each semester.

65-66. Technique. Study, practice, and teaching of physical education activities. Prerequisites: Physical Education 5 and 6. Required of sophomore majors in physical education. Four hours per week. 2 credit hours each semester.

FOR JUNIORS AND SENIORS

104. Nutrition. (Same as Home Economics 104.) This course is given in the Department of Home Economics, primarily for physical education majors. 2 credit hours.

105-106. Recreational Leadership. Psychology of play, practice of games suitable to different ages; organization, equipment, and management of playgrounds; community recreation in its relation to mental hygiene and social attitudes; Girl Scouts, Camp Fire Girls, and girls' clubs. Lectures, recitations, and laboratory practice in conducting group games for second semester. Prerequisites: Physical Education 5, 6, 55, and 56. 3 credit hours each semester.

107-108. Technique. Study, practice, and teaching of physical education activities. Prerequisites: Physical Education 5, 6, 55, 56, 65, and 66. Required of all junior majors in physical education. Four hours per week. 2 credit hours each semester.

155-156. Technique. Study, practice, and teaching of physical education activities. Prerequisites: Physical Education 5, 6, 55, 56,

- 65, and 66. Required of all senior majors in physical education. Four hours per week. 3 credit hours each semester.
157. **Principles and Methods of Physical Education.** Brief survey of the various programs of physical education in European countries and in the United States. General and specific objectives of physical education in relation to the whole educational program in a democracy. Means of training health habits and the methods of teaching the various forms of physical education material. 4 credit hours.
166. **Remedial Work for Individual Abnormalities.** A theoretical and practical study of massage. The mechanics of posture and the common abnormalities of the spine and foot. The effect of exercise on constipation and dysmenorrhea. 3 credit hours.

PHYSICAL EDUCATION FOR MEN AND WOMEN FOR JUNIORS AND SENIORS

161. **First Aid.** Required of men and women who are majoring in physical education. 2 credit hours.
167. **Anthropometry and Physical Examination.** Technique of measuring, significance of measurement, and use of data. Physical efficiency tests and their significance. 3 credit hours.
172. **Organization and Administration of Physical Education and Athletics.** 3 credit hours.

DEPARTMENT OF PHYSICS

E. J. WORKMAN, Ph.D., Associate Professor

*S. B. LIPPINCOTT, M.S., Instructor

F. F. COLEMAN, Ph.D., Part-time Instructor

MAJOR STUDY. Twenty-four hours in courses numbered above 50, not including Physics 61.

MINOR STUDY. Twelve hours in courses numbered above 50, not including Physics 61.

PRIMARILY FOR FRESHMEN AND SOPHOMORES

1. **General Physics.** An introductory course for students of any college who desire to become acquainted with the more important facts and theories of physics. Prerequisites: Two years of high school mathematics, including algebra and plane

*On leave of absence, 1934-1935.

COURSES IN DEPARTMENTS OF INSTRUCTION [219

- geometry. Three lectures and one laboratory period per week. 4 credit hours. Fee \$3.00.
2. **General Physics.** Continuation of Physics 1. Prerequisite: Physics 1. 4 credit hours. Fee \$3.00.
- 3-4. **Survey of Physics.** A survey course dealing with the development of knowledge of the physical world, and embracing an attempt to cover the essentials of physical science. 3 credit hours each semester.
51. **Engineering Physics.** Mechanics and heat. Prerequisite: Mathematics 53. (This course may be taken simultaneously.) Lectures and problems, four hours per week, one laboratory period per week. 5 credit hours. Fee \$4.00.
52. **Engineering Physics.** Electricity, sound, and light. Prerequisites: Physics 51 and Mathematics 54. (This course may be taken simultaneously.) 5 credit hours. Fee \$4.00.
61. **Household Physics.** For students of home economics. Lectures, demonstrations and problems, three hours per week. 3 credit hours. Not accepted for major or minor credit.

FOR JUNIORS, SENIORS, AND GRADUATES

101. (Formerly 71.) **Heat.** The theory of heat, with temperature measurements and general calorimetry. Prerequisites: Physics 2 or 52 and Mathematics 54. (This course may be taken simultaneously.) Three class periods and one laboratory period per week. 4 credit hours. Fee \$3.00.
102. (Formerly 72.) **Light and Sound.** The general properties of waves, with an elementary treatment of the phenomena of interference, diffraction and refraction. Prerequisites: Physics 2 or 52 and Mathematics 54. (This course may be taken simultaneously.) Three class periods and one laboratory period per week. 4 credit hours. Fee \$3.00.
- 105-106. **Laboratory Technique.** A course designed to introduce and furnish training in some of the recent advances in laboratory technique. The enrollment is restricted in order to make it possible for each student to have individual instruction in the practice of particular techniques. These may include vacuum practice, electrometer and quartz fiber work, vacuum tubes, photography, deposition of metallic films, thermocouples, and laboratory glass blowing. Prerequisites: Physics 2 or 52. 2 or 3 credit hours each semester. Fee \$5.00 each semester.

111. **Electricity and Magnetism.** A course in general electrical and magnetic theory. Prerequisites: Physics 2 or 52 and Mathematics 54. Two lecture periods per week. Two laboratory periods per week required of electrical engineers; one laboratory period optional for non-engineering students. 2, 3, or 4 credit hours. Fee \$3.00 per laboratory period.
112. **Electricity and Magnetism.** Continuation of Physics 111 with emphasis on alternating current theory and the conduction of electricity through gases. One laboratory period per week. Prerequisites: Physics 111 and Mathematics 54. 3 credit hours. Fee \$3.00.
121. **Analytical Mechanics.** An elementary treatment of elasticity, and a discussion of rotational and vibrational systems. Prerequisites: Physics 2 or 52 and Mathematics 151 and 152. (Mathematics 152 may be taken simultaneously.) Three lectures per week. 3 credit hours.
- 181-182. **Introduction to Theoretical Physics.** A course for senior students of physics, covering approximately the same material as that given in Page's Introduction to Theoretical Physics. Prerequisites: Physics 72 and 112, and Mathematics 152. Four class periods per week. 4 credit hours.

FOR GRADUATES ONLY

251. **Special Problems.** 2-4 credit hours.

DEPARTMENT OF PSYCHOLOGY

BENJAMIN F. HAUGHT, Ph.D., Professor

GEORGE M. PETERSON, Ph.D., Assistant Professor

*DAVID CLARENCE BURD, B.A., Graduate Fellow

*CALVIN H. SCHMITT, B.A., Graduate Fellow

GROUP REQUIREMENTS. Courses 51, 52, 121, 122, 193, 193a, 196, and 196a are accepted toward fulfillment of the requirements in Group IV.

MAJOR STUDY. Twenty-four hours.

MINOR STUDY. Twelve hours.

PRIMARILY FOR SOPHOMORES

51. **General Psychology.** An introductory course. Two lectures and one experiment each week. 3 credit hours. Fee \$1.00.

*Mr. Burd, first semester; Mr. Schmitt, second semester.

COURSES IN DEPARTMENTS OF INSTRUCTION [221

52. **Fields of Psychology.** Topics: systematic schools of psychology; animal, child, individual, social, and experimental psychology; applications of psychology to advertising and industry, law, and medicine. Prerequisite: Psychology 51. Two lectures and one experiment each week. 3 credit hours. Fee \$1.00.
54. **Educational Psychology.** An introductory course emphasizing heredity, individual differences, and learning. Limited to sophomores. Prerequisite: Psychology 51. 3 credit hours.

FOR JUNIORS, SENIORS, AND GRADUATES

101. **Social Psychology.** A study of the behavior of the individual as influenced by other human beings. 3 lectures or recitations each week. Prerequisite: Psychology 51. 3 credit hours.
103. **Abnormal Psychology.** Abnormal human behavior considered from the standpoint of gaining a better understanding of normal behavior. Prerequisite: Psychology 51. 3 credit hours.
121. **Experimental Psychology.** Sensory and motor processes. Prerequisite: Psychology 51. 3 credit hours. Fee \$2.00.
122. **Experimental Psychology.** Learning and the higher mental processes. Prerequisite: Psychology 51. 3 credit hours. Fee \$2.00.
181. **Educational Tests and Statistics.** Statistics used in interpreting test results, administering and scoring tests, selection of tests. Prerequisite: Psychology 51. 3 credit hours. Fee \$1.00.
183. **Educational Psychology.** Learning, with some attention to the laws of heredity and individual differences. Prerequisite: Psychology 51. 3 credit hours.
185. **Mental Measurements.** Practice in the administration of individual and group tests, the origin and history of the testing movement, interpretation of results. Prerequisite: Psychology 51. 3 credit hours. Fee \$1.00.
193. **Animal Psychology.** A comparative study of the heredity, maturation, learning, and the higher mental processes as revealed in various animals. Prerequisite: Psychology 51. 3 credit hours.
- 193a. **Animal Psychology Laboratory.** 2 credit hours.

196. **Physiological Psychology.** The correlation of behavior and structure, with emphasis on the nervous system. Prerequisites: Psychology 51 and 193. 3 credit hours.
- 196a. **Physiological Psychology Laboratory.** 2 credit hours.
198. **History of Psychology.** Current psychological problems and trends in psychological thought considered from the historical point of view. 3 credit hours.

FOR GRADUATES ONLY

251. **Special Problems.** 2 credit hours.
300. **Thesis.** 2-6 credit hours.

SUMMER SESSION

Summer instruction at the University of New Mexico was begun in 1922 after a lapse of four years, and has continued since that time. Until 1926 the Summer Session was for six weeks, and since, the length of the session has been eight weeks. It offers a large variety of courses, with special attention to the needs of prospective teachers, teachers in service, and administrators. All courses may be counted toward the baccalaureate degree unless otherwise specified. Courses numbered above 100, in general, may be counted toward the master's degrees.

PURPOSE

The purpose of the Summer Session is to enable regular students to advance the day of their graduation, to obtain instruction in courses not offered in their regular session, and to afford to adults an opportunity to turn their vacation to account. Many courses are designed particularly for ambitious teachers, principals, superintendents, and coaches of athletic teams.

ADMISSION

Admission to regular status in courses for which credit toward a degree is granted is limited to students who can meet the regular requirements of admission. Any person of good character, over twenty-one years of age (eighteen years of age in the case of teachers) may be admitted, subject to the general regulations of the University relating to special students.

MISCELLANEOUS INFORMATION

The bulletin of the Summer Session, which is sent free upon request, contains a list of instructors, information regarding courses, credit requirements for degrees, tuition, fees, board and lodging on the campus, etc.

SUMMER SESSION 1935

JUNE 11 TO AUGUST 3, 1935

S. P. NANNINGA, M.A., Ph.D., Director

The University of New Mexico Summer Session offers the following information for your consideration:

1. **Faculty.** The faculty is the primary consideration. Examine carefully the announcements of the various courses for the training and experience of the instructors.
2. Undergraduate and graduate courses leading to the degrees of Bachelor of Arts and Bachelor of Science in the College of Arts and Sciences; to the degrees of Bachelor of Arts in Education, Bachelor of Science in Education, and Bachelor of Science in Physical Education in the College of Education; and to the degrees of Master of Arts and Master of Science in the Graduate School, may be obtained in the Summer Session.
3. **Living expenses.** The University of New Mexico dormitories are open to Summer Session students at extremely low rates.
4. **Acquaintanceship to be formed.** New Mexico students should attend New Mexico institutions. It is particularly helpful for teachers in New Mexico to meet superintendents and principals from all parts of the State. The Teachers' Placement Bureau secures positions for many of the Summer Session students.
5. **Recreation.** Nearby mountains are easily accessible for week-end excursions and picnics. Historic Santa Fe is two hours away by motor. Within a few hours' drive also are Jemez and Sulphur Springs, the Gran Quivira ruins, picturesque Taos, the Pecos Canyon, and the mysterious and ancient "sky city" of Acoma. An excellent modern gymnasium, cement tennis courts, and an out-of-doors swimming pool are available to students.

6. Standing. The University of New Mexico was placed on the approved list of the Association of American Universities on October 28, 1933. The most important principles governing acceptability are (1) demonstrated ability to prepare graduates for admission to standard graduate and professional schools and for work in recognized research institutions; (2) sound administrative policy, with reference to entrance requirements, credits for advanced standing, requirements for degrees and general scholastic regulations; (3) the possession of faculty, equipment and resources requisite for giving instruction in all the work covered by its educational program.

The University of New Mexico has been fully accredited by the Committee on Higher Education of the North Central Association of Colleges and Secondary Schools, since 1922, and has progressively developed its standards.

7. Courses offered. Archaeology, anthropology, art, biology, dramatics, economics, education (elementary, secondary, school administration, educational tests, statistics and measurements, educational psychology), English, French, geography, geology, government and citizenship, journalism, political science, home economics, hygiene, mathematics, music, physical education (athletic coaching, plays and games, swimming), physics, psychology, and Spanish. Special courses will emphasize cultural aspects of the Southwest.

Bulletins, announcements, and other information will be sent free on request. Address: Registrar, University of New Mexico, Albuquerque, New Mexico.

CLASSIFICATION OF STUDENTS

Classification of students in the various colleges is based upon the following standards of credit hours:

Class	College of Arts and Sciences	College of Education	College of Engineering
Freshman	0- 28	0- 28	0- 32
Sophomore	29- 60	29- 60	33- 67
Junior	61- 94	61- 94	68-105
Senior	95-128	95-128	106-145

Two years' credit or four semester hours' credit is required in Physical Education. If a student is permanently excused from meeting the physical education requirement, a corresponding reduction is made in the total number of hours required for graduation.

Special students are adult students who are not working toward a degree.

Unclassified students are those students whose status in the University has not been determined.

The Extension Division includes students enrolled for correspondence work and non-resident classes.

SUMMARIES AND STATISTICS

ENROLLMENT

	Men	Women	Total
First and Second Semesters, 1934-1935:			
College of Arts and Sciences -----	370	178	548
College of Education -----	110	308	418
College of Engineering -----	179		179
Graduate School -----	52	95	147
Adult Special Students -----	25	43	68
Unclassified Students -----	6	1	7
Totals -----	742	625	1,367
Extension Division:			
Correspondence Courses -----	39	164	203
Non-resident Classes -----	37	80	117
Totals -----	76	244	320
Summer Session, 1934 -----	271	494	765
Field Sessions, 1934:			
Chaco—Archaeology -----	6	7	13
Guatemala—Archaeology -----		1	1
Jemez—Archaeology -----	14	41	55
Taos—Art -----	1	6	7
Santa Fe Indian Art -----		14	14
Totals -----	21	69	90
Totals -----	1,110	1,432	2,542
Less Duplicates -----			331
Net Total -----			2,211
Total enrollment, first semester -----			1,209
Total enrollment, second semester, as of Feb. 26, 1935 -----			1,088
Total for the year -----			2,297
Less duplicates (students enrolled both semesters) -----			930
Total different persons registered -----			1,367

ENROLLMENT BY CLASSES

Freshmen -----	273	170	443
Sophomores -----	167	116	283
Juniors -----	128	107	235
Seniors -----	91	93	184
Graduates -----	52	95	147
Adult Special Students -----	25	43	68
Unclassified Students -----	6	1	7
Totals -----	742	625	1,367

DISTRIBUTION OF STUDENTS BY STATES AND COUNTIES

(First and Second Semesters, 1934-1935. Does not include Extension Division, Summer Session, or Field Sessions.)

New Mexico (Counties)

Bernalillo	873	Mora	1
Catron	5	Otero	10
Chaves	12	Quay	13
Colfax	38	Rio Arriba	7
Curry	18	Roosevelt	5
De Baca	5	Sandoval	15
Dona Ana	6	San Juan	15
Eddy	16	San Miguel	8
Grant	14	Santa Fe	52
Guadalupe	1	Sierra	13
Harding	2	Socorro	7
Hidalgo	2	Taos	5
Lea	6	Torrance	24
Lincoln	13	Union	10
Luna	9	Valencia	27
McKinley	12		
Total from New Mexico			1,244

Other States

Arizona	2	Nevada	1
Arkansas	4	New Jersey	5
California	13	New York	4
Colorado	8	Ohio	4
Delaware	1	Oklahoma	8
Illinois	15	Pennsylvania	8
Indiana	4	South Carolina	1
Iowa	3	Tennessee	2
Kansas	5	Texas	15
Louisiana	1	Utah	2
Massachusetts	1	Washington	1
Michigan	4	Wisconsin	2
Missouri	8	Washington, D. C.	1

Total from other states 123

Total enrollment 1,367

AWARDS AND SCHOLARSHIPS

THE C. T. FRENCH MEDAL FOR SCHOLARSHIP

NORMA THOMSON

THE KATHERINE MATHER SIMMS PRIZE IN ENGLISH

HORACE TILLMAN GARDNER, JR.

THE GEORGE E. BREECE PRIZE FOR EXCELLENCE IN

ENGINEERING

VERNON C. MILLER

THE IVES MEMORIAL SCHOLARSHIPS

ROSA CHAVEZ

FRANCES HARTMAN DE HUFF

EVELYN FERN HARRINGTON

THE MARIAN COONS KINDNESS AWARD

FLORENCE MARGARET NOECKER

THE CHI OMEGA PRIZE IN ECONOMICS

EVELYN FERN HARRINGTON

THE ALFRED GRUNSFELD MEMORIAL SCHOLARSHIPS

WILLIAM ATKINSON

VICENTE PACHECO

MANFORD RAINWATER

THE PHILO S. BENNETT PRIZE

RUTH HAMPTON

THE HARRY L. DOUGHERTY MEMORIAL PRIZE IN

ENGINEERING

LINCOLN KOCH

THE ALPHA CHI OMEGA CERTIFICATE IN MUSIC

KATHRYN TAMME FELL

THE SIGMA TAU MEDAL FOR SCHOLARSHIP

ROBERT MACDONALD YEAROUT

THE OREN W. STRONG AWARD

FRED M. GOLDSWORTHY

THE MIRIAM N. GRUNSFELD SCHOLARSHIPS

LETHA GRACE GHOLSON

BERNICE ANN REBORD

THE SAN JOSE SCHOLARSHIPS

TERESINA B. FULLERTON
CLARA ROMEROPAUL GIRON
EULALIA SANCHEZ

THE CHARLES FLORUS COAN AWARD

MURRAY BERNARD ALLEN

THE ROSE RUDIN ROOSA MEMORIAL AWARD

JOHN J. KENNEDY

THE NEW MEXICO SECTION OF THE AMERICAN SOCIETY OF
CIVIL ENGINEERS AWARD

BEN HARDIN CLARK

THE PHI KAPPA PHI PRIZES

MARGARET ELINOR OSWELL

SAM DAVEY MARBLE

THE RICHARD W. THORNE ART MEDAL

ALIS L. KELLER

THE AMERICAN ASSOCIATION OF UNIVERSITY WOMEN AWARD

PAULINE R. CARNES

THE SCHOOL OF AMERICAN RESEARCH AWARDS

REGINALD G. FISHER

FREDDY A. CAMPORA

MARION GRACE HOLLENBACH

THE C. M. T. C. AND INDIAN SCHOLARSHIPS

NOT AWARDED IN 1934

THE UNIVERSITY OF MEXICO EXCHANGE

At the University of New Mexico, CARLOS BRAMBILA

At the University of Mexico, JULIUS TURKEL

DEGREES CONFERRED

JUNE FOURTH, NINETEEN HUNDRED THIRTY-FOUR

COLLEGE OF ARTS AND SCIENCES

BACHELOR OF ARTS

	Major	Minor
Murray Bernard Allen	History, Political Science	
Frances Eileen Andrews	English	Voice
Arthur Maloy Baker	History	Geology
Robert L. Baldwin	Political Science	English, Spanish
James Dunbar Bell	Economics	Political Science
*Paul King Benedict	Archaeology and Anthropology	English
Jack McLaughlin Biggs	Economics	History
Ruth Bigler	Piano	French
Stephen R. Boose	Economics	English
Herman Theodore Brewer	Economics	History
Jane Burkholder	English	Political Science
Charles C. Cagle, Jr.	Economics	Political Science
Martha Reed Compton	Latin	Psychology, Archaeology and Anthropology
Alice E. Conway	Piano	English
Zenas Dee Cook	Economics	Political Science
†Ellsworth Faris Duke	English	Education
*J. Leo Evett	Political Science	History
Mary Fant	Psychology	English
Lee Frank Ferrell	Biology	Chemistry
Jean H. Finnell	Political Science	Applied Music
John Theodore Friede	Economics	History
Elvina Sidney Fullerton	History	English
Vena Loree Gault	Economics	Biology
Donald Keith Gill	Political Science	History
Robert Charles Griffith	History	Political Science
Mary Ellis Hardin	Geology, English	
J. W. Hendron	Archaeology and Anthropology	Economics
Thomas George Hinde	Economics	Spanish
Dorothy Hogner	Archaeology and Anthropology	English
Calvin Jackson Holt	Economics	History
Alis L. Keller	Art	English
Howard Roy Kirk	Economics	English
Daniel K. Krohn	Political Science	English, Spanish
Thompson L. Letton	Economics	Political Science
*Emma Lee McGuire	Violin	French
Donald B. Mack	Archaeology and Anthropology	French

*"With Distinction."

†As of the Class of 1923.

	Major	Minor
Frank H. Martin	Economics	Political Science
*Daniel H. Mater	Economics	English
Daniel Carlton Minnick	History	Political Science
Wendell Roxby Mullison	Biology	Archaeology and Anthropology
William A. Roberson	Art, Mathematics	
Joe Dent Robinson	Economics	English
Frank C. Sieglitz	Political Science	Economics
Helen Ann Sills	Art	English
Jane-Elizabeth Spencer	English, Economics	Spanish
F. Rex Walling, Jr.	Economics	English
Jack F. Walton	Economics	Political Science
Harrie-Louise Ward	English	History
*Gertrude E. Warner	English	Spanish, French
Harvey Howard Whitehill	Political Science	English

BACHELOR OF SCIENCE

	Major	Minor
Olive Arline Butler	Biology	Home Economics
Eda Beatrice Coulston	Biology	Home Economics
Herman A. Haskell	Geology	Psychology
Joseph J. Lommori	Biology	French
Charles Lee McGuinness	Geology	Psychology, Chem- istry
Michael Joseph McGuinness, Jr.	Chemistry	Geology
Tom O. Meeks	Geology	Economics
E. Edward Osuna	Biology	Archaeology and Anthropology, Chemistry
Gaius O. Rouse	Biology	Geology
Waldemar David Schaefer	Biology	Chemistry
Hillard Smith	Chemistry	Biology
John Wallace Teare	Chemistry, Mathematics	
Richard H. Wilcox	Chemistry	Mathematics

COLLEGE OF ENGINEERING

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

J. W. Chamberlin	Fred D. Huning, Jr.
Ben Hardin Clark	Thos. J. McCarty, Jr..
Kenneth W. Heron	L. C. Matthews

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

J. William Berberich	Paul F. Jones
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* "With Distinction."

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

William A. Lucas

*Vernon C. Miller

Max A. Pflueger

COLLEGE OF EDUCATION

BACHELOR OF ARTS IN EDUCATION

	Major	Minor	Curriculum
Alta Lee Black	English	Archaeology and Anthropology	Elementary
Nelleva Isabel Booth	History	English	Elementary
Dorothy F. Campbell	Archaeology and Anthropology	Spanish	Elementary
Mary Elizabeth DeGraftenreid	English	History	Elementary
Rosemary Dellinger	Public School Music	Piano	
Margaret Honora Drury	Public School Music	Voice, Spanish	
Bessie Annette Fossnock	Archaeology and Anthropology	History	Elementary
Laura Spence French	English	Archaeology and Anthropology	Elementary
Archie E. Garcia	Political Science	Geology	Elementary
*Lois Hammond	History	English	High School
Margaret Louise Hannett	Archaeology and Anthropology	English	Elementary
Marjorie NaDine Henry	History	Economics	High School
George E. Hood	Biology	English	High School
Eva Margareta Israel	English	Public School Music	High School
Verna Margaret Jones	English, His- panic Studies	Spanish	High School
Elizabeth B. Long	Archaeology and Anthro- pology	English, Psychol- ogy, Geology	Elementary
Dora Lunsford	History	English	High School
Clarabel McDonald	Psychology	Biology	Elementary
Glenn O. McGuire	Economics	Geology	High School
Miriam Marmon	Art	Physical Educa- tion	High School
Martha Elizabeth Matthews	English	Archaeology and Anthropology	Elementary
Patty Mason Milner	English	Voice	Elementary
Benjamin Moya	Spanish	French	High School
Josephine L. Napoleon	Spanish	History	High School

* "With Distinction."

	Major	Minor	Curriculum
Esther Marie Neilsen	Latin	English, Spanish	High School
Nellie L. Ortega	Biology	English	Elementary
Sofia Celesta Ortega	History	Spanish, Political Science	High School
Gene Suzanne Paddock	Public School Music	English, Applied Music	
Bess Curry Redman	Public School Music	Applied Music	
Crawford L. Reynolds	History	Mathematics	High School
Ethel C. Rockwood	English	Archaeology and Anthropology	High School
Fernando Salaz	History	Spanish	Elementary and High School
Rita Sanchez	Spanish	French	High School
Florence Johnson Shoemaker	History	English	High School
C. Louise Smith	English	Spanish	Elementary
*Norma M. Thomson	Spanish	French, History	High School
Ralph S. Trigg	Economics	Geology	High School
Edna Elizabeth White	English	Home Economics	High School
Genevieve L. Wiley	Psychology	Biology	Elementary
Alice Menzies Wilson	English, Biology	Chemistry	High School
Lena K Zuber	Spanish	French	High School

BACHELOR OF SCIENCE IN EDUCATION

	Major	Minor	Curriculum
Margaret Bietz	Biology	English, German	Elementary
Grace Eleanor Campbell	Biology, Home Economics	Spanish	High School
Lulu Belle Frye	Home Economics		
Adolfo C. Gonzales	Administration and Supervision	Spanish	
Jennie Marcella González	Education	Spanish	
Howard C. McKinley	Administration and Supervision	English	
Beulah S. Mauk	Administration and Supervision	Physical Education, History	
Mrs. Harry Moulton	Home Economics		
Helen F. Mullison	Education	Biology	
Florence Margaret Noecker	Home Economics		
Catherine Muller O'Dell	Education	Applied Music	
Marian A. Pierce	Mathematics	Physics	High School
Carolyn Louise Wright	Biology	Home Economics	High School

* "With distinction."

GRADUATE SCHOOL

MASTER OF ARTS

Major

Eleanor Gibbs Anderman	Mathematics
Regis Zabriskie Bogert	Political Science
Carroll H. Conway	Spanish
Alfredo C. Galaz	Spanish Literature
Thomas Clifford Gallagher	Education
Harold Neidig Huffman	Spanish Language and Literature
T. C. Israel	History
Cornelius C. Kuipers	Psychology
Joseph Marshall Kuntz	English Literature
Alice Leinau	Archaeology
Johnaphine Ann Lockett	Psychology
Jane Marie Randolph	Psychology
D. G. Robinson	Educational Administration
Robert Edwin Snapp	English Literature
Waueta L. Stewart	Mathematics
*Ethel Marie Umberhine	Education

HONORARY DEGREES

DOCTOR OF LAWS

Aurelió Macedonio Espinosa y Martínez	Frederick Webb Hodge
Alfred Vincent Kidder	

DOCTOR OF THE MORE HUMANE LETTERS

Edgar Lee Hewett

AUGUST FOURTH, NINETEEN HUNDRED THIRTY-FOUR

COLLEGE OF ARTS AND SCIENCES

BACHELOR OF ARTS

Major

Minor

William W. Farley	Biology	Chemistry
Eloy M. Fernández	Economics	Spanish
Lilburn Carol Homan	Economics	Political Science
Claude Hutto, Jr.	Economics	History
Margaret Jo McCarthy	History	English
Titus W. Rouse	English	Spanish
Fay Estelle Terry	Archaeology and Anthropology	Biology
Willie True	Geology	Economics

BACHELOR OF SCIENCE

Major

Minor

Daniel H. Mater	Psychology	History
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*As of the Class of 1933.

COLLEGE OF EDUCATION

BACHELOR OF ARTS IN EDUCATION

	Major	Minor	Curriculum
José Elias L. Atencio	Political Science	Archaeology & Anthropology	Elementary
Virginia Marie Bebermeyer	Art	English	Elementary
Grace Agnes Booth	English	History, Biology	High School
Elizabeth Dashiell Bryson	English	Biology	High School
Mary Margaret Durán	Spanish	English	Elementary
Paul W. Masters	English	Psychology	High School
Pauline A. Regensberg	History	English	High School
Stella Marie Schmitt	English	French	High School
Rose Viggers	History	Archaeology & Anthropology	High School
Mildred Maureen Wilson	English	Public School Music	Elementary

BACHELOR OF SCIENCE IN EDUCATION

	Major	Minor	Curriculum
Marian Frazer	Biology	English	Elementary
Verena Vida Heyman	Biology	English	Elementary
Minnie Laws	Administration and Supervision	History	
Virginia Turner McQuirk	Education	English, Art	
Marjorie Van Cleave	Biology	English	Elementary

GRADUATE SCHOOL

MASTER OF ARTS

	Major
Dorothy Aileen Cottrell	History
Howard J. Dittmer	Botany
Lovilla Ruth Dring	English
Otto Walter Habis-Reutinger	English Literature
Louis Benton Herring	Economics
Tonia Ann Komadina	Spanish Literature and Folklore
Lillie G. McKinney	History
L. D. Robbins	Psychology
Landrum Brewer Shettles	Zoology
Norvell Glynn Tate	History and Political Science
Edith L. V. elsheimer	English

AUGUST THIRTY-FIRST, NINETEEN HUNDRED THIRTY-FOUR
COLLEGE OF ARTS AND SCIENCES

BACHELOR OF ARTS

	Major	Minor
David Clarence Burd	Psychology	Geology, English
Georgia Knotts	English	Archaeology and Anthropology
James H. Whitfield	Archaeology and Anthropology	History
Mary Lillian Wills	Art	Philosophy

COLLEGE OF ENGINEERING

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Robert Craig Brown

COLLEGE OF EDUCATION

BACHELOR OF ARTS IN EDUCATION

	Major	Minor	Curriculum
Helen Heacock Ellis	Political Science	Biology, History	High School
Mary Jane Masters	History	Art	High School
Iva R. Thompson	History	Biology	High School

BACHELOR OF SCIENCE IN EDUCATION

	Major	Minor
Mary Lee Archer	Education	Biology, English

BACHELOR OF SCIENCE IN PHYSICAL EDUCATION

	Major	Minor
Ray Barton	Physical Education	Biology

LOWER DIVISION DIPLOMAS

1934

COLLEGE OF ARTS AND SCIENCES

William Wilder Atkinson	Allen M. Markham, Jr.
Martha Dee Brownfield	Richard W. Marth
Charles H. Boyd	Rebecca Jane Menaul
Armida L. Campa	Wendell L. Miller
W. D. Clayton	Maryruth Mitchell
Bob M. Coffin	Joseph L. Montoya
William Raleigh DeHart, Jr.	Gordon Benjamin Page
Ann Wilson DeHuff	A. Linden Peipelman
Wilbur G. Eichhorn	Clay Pooler
Fern Houp Englekirk	Adelina Mary Puccini
Thelbert L. Exter	Manford William Rainwater
Mildred T. Faris	Mary Janette Rankin
Kathryn Tamme Fell	Joe Roehl
Norman John Flaska	Eve-lyn Willson Ross
George A. Frederick, Jr.	James L. Rutledge
Eustaquio Garcia	Myron Chevalier Sabin
Horace Tillman Gardner, Jr.	Benedicto D. Sandoval, Jr.
Jay G. Gentry	Robert Sheldon Scott
Coy Stallings Ham	Edith Shallenberger
Lillian Lucille Haynie	Anna Louise Shelton
Marion Grace Hollenbach	Jane Sorenson
Fletcher Hornbaker	P. Arthur Stanton
Marguerite Jenkins	George Carroll Taylor, Jr.
Avis D. Johnson	James L. Teare
Carter Burdeau Johnson	Milburn Kenneth Tharp
Georgia Knotts	Leon James Thompson
Jack Korber	M. M. Thompson
Lawrence B. Lackey, Jr.	Arthur Lee Thornton
Edward LeMoncheck	Mary Edna Trammell
Norman P. Lincoln	Julius M. Turkel
Dorothy Louise Luhrs	Johnnie Vidal
Martha McNary	Harriette E. Wells
Robert Lee Maddox	Mary Gleason Wiggins
Ruford Madera	Elsie Willis
Elizabeth A. Zimmerman	

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APPLICATION FOR ADMISSION
to the
UNIVERSITY OF NEW MEXICO
For Freshmen

Date _____

Name in full _____
(Last name) (First name) (Middle name)

Home address _____
(Street and number) (City) (State)

Date of birth _____ Place of birth _____
(Month, day, year)

I wish to enter the
College of Arts and Sciences, Engineering, Education
(Cross out two)

I plan to enroll for the **first semester, second semester**
(Cross out one)

Give the following information in full:

High School from which you graduated _____
(Each student must request his principal or superintendent to
return the certificate of recommendation properly filled out.
This certificate should be in the Registrar's Office as soon as
possible before registration. See page 35 of the catalog.)

Date of Graduation _____

Other high schools attended and dates of attendance:

(Name) (Dates of attendance)

My transcript has been sent _____; will be sent _____
(Place X in one blank.)

I have/have not written previously regarding my entrance to the
(Cross out one.)
University.

I hereby certify that I have not been registered in any institution
of higher learning since my graduation from high school.

Signed _____

APPLICATION FOR ADMISSION
to the
UNIVERSITY OF NEW MEXICO

For students who have attended one or more institutions of higher learning.

Date _____

Name in full _____
(Last name) (First name) (Middle name)

Home address _____
(Street and number) (City) (State)

Date of birth _____ Place of birth _____
(Month, day, year)

I desire to enter the

College of Arts and Sciences, Engineering, Education
(Cross out two)

I plan to enroll for the first semester, second semester.
(Cross out one)

Please give the following information in full:

1. High Schools attended:

(Name) (Dates of attendance)

(A student wishing to complete work toward a degree must request his high school principal or superintendent to return the certificate of recommendation properly filled out. This certificate should be in the Registrar's Office as soon as possible before registration.)

2. Date of graduation from high school _____ Place _____

3. Colleges and universities attended: if you have attended the University of New Mexico previously, please give dates of attendance.
(It is necessary that a complete official transcript, together with a letter of honorable dismissal, be sent directly from the registrar of each institution attended. Catalogs for the years of attendance should accompany all transcripts. These should be in the Registrar's Office as soon as possible before registration.)

(Over)

(Institution)	(Dates of attendance)

4. Extension and correspondence work completed:

(Course)	(School in which taken)

5. Degrees conferred _____

By _____

6. I have/have not written previously regarding my entrance to the
(Cross out one.)
University.

7. My transcripts have been sent _____; will be sent _____
(Place X in one blank.)

I hereby certify that the above is a true statement concerning my previous academic record.

Signed _____

APPLICATION FOR ROOM IN THE RESIDENTIAL HALLS

Name in full _____
(Last name) (First name) (Middle name)

Home address _____
(Street and number) (City) (State)

Please check A or B:

A.—I was registered at the University of New Mexico from _____
_____ to _____

B.—I shall register in the University of New Mexico for the first time.

I wish to apply for a room in the University residential halls for the first semester, second semester. (Cross out one.) I am enclosing herewith the required \$5.00 reservation fee which is to be held as a deposit during occupancy. I understand that this reservation fee cannot be refunded under any circumstances.

Please check carefully:

I have the following classification (check one):

Freshman—Sophomore—Junior—Senior—Graduate

WOMEN: I prefer a single room _____; a suite _____;

MEN: I prefer a single room _____; a double room _____;
in the old dormitory.

I prefer a room in the new dormitory.

Date _____

For information regarding price of rooms in dormitory and board in dining hall, see page 71.

