1927

General Catalogue 1927

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COLLEGE CALENDAR FOR 1927-1928

FALL QUARTER

September 23, Friday................ Entrance examinations for those who request them.

Special instruction and entertainment for Freshmen.

September 24, Saturday................ Registration for Freshmen only.

September 26, Monday................ Registration of former students.

September 27, Tuesday................ Instruction begins.

November 11, Friday................ Armistice Day (Half-Holiday).

November 23, (noon) - November 27, (inclusive)........... Thanksgiving recess.

December 21, Wednesday............ Fall quarter ends.

December 22-Jan. 3 (inclusive)........ Christmas recess.

WINTER QUARTER

January 4, Wednesday.............. Winter quarter begins.

February 22, Wednesday............ Washington's birthday (Holiday).

March 8, Thursday................ Founder's Day (Half Holiday).

March 23, Friday................ Winter quarter ends.

SPRING QUARTER

March 24, Saturday................ Registration for the Spring quarter.

March 26, Monday................ Instruction begins.

May 18, Friday................ Conferring of Scholarship and Other awards.

May 23, Wednesday............... Senior Chapel.

May 30, Wednesday............... Memorial Day (Holiday).

June 1, Friday................ Spring quarter ends. Annual Alumni business meeting and social.

June 2, Saturday................ Commencement and Alumni banquet and ball.

June 3, Sunday................ Baccalaureate Sermon.

SUMMER QUARTER

June 11, Monday................ Summer quarter begins.

July 20, Friday................ First term ends.

July 23; Monday................ Second term begins.

July 24, Tuesday................ Pioneer Day (Holiday).

August 24, Friday................ Summer quarter ends.
BOARD OF TRUSTEES

ANTHONY W. IVINS .............................................. Salt Lake City
C. G. ADNEY ........................................................ Corinne
ROY BULLEN .......................................................... Salt Lake City
LORENZO N. STOHL .................................................. Salt Lake City
MRS. LEE CHARLES MILLER ....................................... Salt Lake City
WESTON VERNON .................................................. Logan
FRANK B. STEPHENS ................................................ Salt Lake City
MRS. BURTON W. MUSSER ......................................... Salt Lake City
WILFORD DAY ..................................................... Parowan
FREDERICK P. CHAMP ................................................ Logan
JOHN E. GRIFFIN .................................................. Newton
J. R. BEUS .......................................................... Hooper
H. E. CROCKETT, Secretary of State, ex-officio ........... Salt Lake City

OFFICERS OF THE BOARD

A. W. IVINS ......................................................... President
C. G. ADNEY ......................................................... Vice-President
R. E. BERNTSON ..................................................... Secretary
JOHN T. CAINE .................................................... Auditor

STANDING COMMITTEES OF THE BOARD OF TRUSTEES

Executive Committee—A. W. Ivins, C. G. Adney, John E. Griffin, Mrs. Lee Charles Miller, Weston Vernon.
Agriculture—J. R. Beus, John E. Griffin, Mrs. Lee Chas. Miller.
Mechanic Arts—John E. Griffin, C. G. Adney, Wilford Day.
Agricultural Engineering—Roy Bullen, Weston Vernon, H. E. Crockett.
Home Economics—Mrs. Burton W. Musser, Lorenzo N. Stohl, Frederick P. Champ.
Commerce—Frederick P. Champ, Lorenzo N. Stohl, Roy Bullen.
Experiment Station—Lorenzo N. Stohl, Mrs. Burton W. Musser, Wilford Day.
Extension Division—Frank B. Stephens, Mrs. Lee Chas. Miller, C. G. Adney.
Faculty and Course of Study—Weston Vernon, Frederick P. Champ, John E. Griffin.
Buildings and Grounds—Frederick P. Champ, Weston Vernon, John E. Griffin.
Branch Agricultural College—Wilford Day, Mrs. Lee Charles Miller, H. E. Crockett.
Legislation and Finance—Mrs. Lee Chas. Miller, Roy Bullen, Frederick P. Champ, Mrs. Burton W. Musser, Frank B. Stephens.
OFFICERS OF ADMINISTRATION AND INSTRUCTION*

THE COLLEGE FACULTY
(Arranged in groups in the order of seniority of appointment)

ELMER GEORGE PETERSON
President
B. S., Utah Agricultural College, 1904; A. M., Cornell University, 1909; Ph. D. 1911. Graduate Student, University of Chicago, 1906; Assistant Professor of Zoology and Entomology, Utah Agricultural College, 1906-08; Instructor and Assistant Professor of Bacteriology, Cornell University, 1909-10; Professor of Bacteriology, Oregon Agricultural College, Bacteriologist, Oregon Experiment Station, 1910-11; Professor of Bacteriology, Utah Agricultural College, 1911-12; Director of Extension Division, 1912-16; President, 1916—.

WILLIAM PETERSON
Director of Experiment Station and Extension Division, Professor of Geology
B. S., Utah Agricultural College, 1899. Instructor in Horticulture and Mathematics, Utah Agricultural College, 1899-1901; Student University of Chicago, 1901-02, Summers of 1902-03-04. Assistant Professor of Geology and Mineralogy, Utah Agricultural College, 1904-06, Professor of Geology and Physics, 1906-08; Geology Field Work, 1908-10; Professor of Geology, Utah Agricultural College, 1910--; United States Geological Survey Field Works, Summers 1912-13; Member of State Road Commission, 1914-16; Utah State Geologist, 1917-21; Director, Utah Agricultural College Experiment Station, 1921--; Director of Extension Division, 1924—.

HYRUM JOHN FREDERICK
Professor of Veterinary Science
D. V. M., Iowa State College, 1905. Graduate Study in Europe, 1924-25. Assistant Professor of Veterinary Science, Utah Agricultural College, 1905-06; Professor 1906—.

FRANK RUSSELL ARNOLD
Professor of Modern Languages
A. B., Bowdoin College, 1893, M. A., 1902. Graduate student, Harvard University, Summers of 1893, 94, 99; University of Paris, 1895-96; University of Bordeaux, 1896-97; University of Goettingen, 1897-98; University of Chicago, summers of 1902-03-04. Instructor, University of Chicago, Summer of 1905; Assistant Professor of Modern Languages, Utah Agricultural College, 1904-06; Professor of Modern Languages, 1906—.

*The College Council consists of the President and all members of the faculty with the rank of professor, associate professor, or assistant professor.
JOHN THOMAS CAINE

Auditor

B. S., Utah Agricultural College, 1894; Master Farmer (Honorary Degree), 1915. Student, Cornell University, 1876; Superintendent, Cache County Schools; Superintendent Logan City Schools; Instructor in English, Utah Agricultural College, 1890-1907; Registrar, 1903-12; Auditor, 1912—.

FRANKLIN LORENZO WEST

Dean of the Faculty, Registrar, Professor of Physics

B. S., Utah Agricultural College, 1904; Ph. D., University of Chicago, 1911. Professor of Physics, Brigham Young University, 1905-06; Professor of Chemistry, Utah Agricultural College, 1907-08; Fellow, University of Chicago, 1910-11; Professor of Physics, Utah Agricultural College, 1908--; Director of School of General Science, 1913-21; Dean of the Faculty, 1921—. Registrar 1927—.

JOSEPH EAMES GREAVES

Professor of Public Health and Bacteriology

B. S., Utah Agricultural College, 1904; M. S. University of Illinois, 1907; Ph. D., University of California, 1911. Instructor in Chemistry, Utah Agricultural College, 1907-08. Assistant Professor, 1908-10; Fellow, University of California, 1910-11; Associate Professor of Physiological Chemistry, Utah Agricultural College, 1911-13; Professor of Bacteriology and Physiological Chemistry, 1913-27. Professor of Public Health and Bacteriology, 1927—.

CALVIN FLETCHER

Professor of Art

B. Pd., Brigham Young University, 1905. Student at Pratt Institute, 1906-07; Student at Columbia University, 1912; Student at Central School of Arts and Crafts, London, England, 1912-13; Student of M. Biloul and at Academy Colarossi, Paris, France, 1913; Student at Chicago Art Institute and Art Craft Institute, 1913-14; Superintendent of Art, Utah County Public Schools, 1903-05; Assistant Professor of Art, Brigham Young University, 1905; Assistant Professor of Art, Utah Agricultural College, 1907-12; Associate Professor, 1912-13; Professor, 1913--; Vice-president, National Vocational Art and Industrial Federation, 1913-14; Director, Utah Art Institute, 1918-20.

RAY BENEDICT WEST

Dean of the School of Engineering, Professor of Engineering

B. S., Utah Agricultural College, 1904; C. E., Cornell University, 1906; Engineer, Oregon Short Line Railroad, 1906-07; in Charge of Engineering Department, Brigham Young College, 1907-08; Division Engineer, Sumpter Valley Railroad, 1908-09; Consulting Engineer, Portland, Oregon, 1909-12; Professor of Agricultural Engineering, Utah Agricultural College, 1913--; Dean of the Schools of Agricultural Engineering and Mechanic Arts, 1916-27; Dean School of Engineering, 1927—.
JAMES HENRY LINFORD
Director, Summer Quarter; Superintendent Correspondence-Study Dept.

B. S., Brigham Young College, 1898; D. Did. (honorary degree) Latter-day Saints Board of Education, 1913. Student at the Hopkins Laboratory of Leland Stanford University, Summer Quarter, 1895-96; Student, University of Chicago, Summer Quarter, 1897. Professor of Zoology and Botany, Brigham Young College, 1892-1913; President, Brigham Young College, 1900-13; Director of the Summer Quarter and Superintendent of the Correspondence-Study Department, Utah Agricultural College, 1913—.

ARTHUR HERBERT SAXER
Dean of the Schools of Arts and Sciences and of Education, Professor of Mathematics

B. S., Utah Agricultural College, 1910; M. S. University of California, 1912; Ph. D., 1915; Whiting Research Fellow, 1912-13; Instructor in Physics, Utah Agricultural College, 1910-11; Professor of Mathematics, 1913--; Director, School of Home Economics, 1917-21; Dean, School of Arts and Sciences, 1921—. Dean, School of Education, 1927—.

NIELS ALVIN PEDERSEN
Professor of English and Speech

Graduate, Utah State Normal College, 1901; A. B., University of Utah, 1906; A. M., Harvard University, 1913; Ph. D., University of California, 1924. Critic Teacher, Utah State Normal College, 1901-03; Instructor in Department of Public Speaking, University of Utah, 1906-07; Instructor in English, Utah Agricultural College, 1907-08; Assistant Professor, 1908-12; Fellow, Harvard University, 1912-13; Professor of English, Utah Agricultural College, 1913—.

PARLEY ERASTUS PETERSON
Professor of Accounting

A. B., Brigham Young College, 1907; C. P. A., 1913; Graduate Student, Harvard University, 1909-10; Graduate Student, New York University, Summer Quarter, 1910; Member, American Institute of Accounts, 1923; Instructor, History and Economics, Brigham Young College, 1907-09; Instructor in Accounting, Utah Agricultural College, 1911-12; Assistant Professor of Accounting, 1912-13; Professor, 1913--; Registrar, 1915-24.

FRANKLIN DAVID DAINES
Professor of Political Science

A. B., Brigham Young College, 1906; A. M., Harvard University, Mathematics, Brigham Young College, 1906-08; Instructor in Social 1913; Graduate Student, University of California, 1922-24; Instructor in Science, Brigham Young College, 1910-11; Assistant Professor of History, Utah Agricultural College, 1913-17; Professor, 1917-22; Professor of Political Science, 1922—.
JOHANNA MOEN

Professor of Textiles and Clothing

B. S., Utah Agricultural College, 1920. Student, Technical Schools of Norway, 1904-05 and 1914-15; Student, Columbia University, 1908-09, 1915 and graduate work, Summer Session 1922 and year of 1925-26. Professor of Textiles and Clothing, Utah Agricultural College, 1920—.

REUBEN LORENZO HILL

Professor of Chemistry

B. S., Utah Agricultural College, 1912; Ph. D., Cornell University, 1915; Fellow, Cornell University, 1913-14; Graduate Assistant in Physiological Chemistry, Cornell University, 1914-15; Instructor in Physiological Chemistry, 1915-16. Physiological Chemist, Bureau of Chemistry, United States Department of Agriculture, 1916; Bio-Chemist, Maryland Agricultural Experiment Station, 1916-18; Commissioned First Lieutenant, Food Division of the Sanitary Corps, United States Army, 1918; Professor of Chemistry, Utah Agricultural College, 1919—.

GEORGE BALLIF CAINE

Professor of Dairy Husbandry

B. S., Utah Agricultural College, 1912; A. M., University of Missouri, 1914. Assistant Professor of Animal Husbandry, Utah Agricultural College, 1914-16; Assistant Professor of Dairy Husbandry, 1916-17, Associate Professor, 1917-20, Professor 1920—.

ORSON WINSO ISRAELSEN

Professor of Irrigation and Drainage

B. S., Utah Agricultural College, 1912; M. S., University of California, 1914; Ph. D., 1925. Assistant, Division of Irrigation Investigation, U. S. Department of Agriculture, Summers of 1913-14; Instructor, University of California, 1914-16; Assistant Professor of Irrigation and Drainage, Utah Agricultural College, 1916-17, Associate Professor, 1917-19, Professor, 1919—.

GEORGE STEWART

Professor of Agronomy

B. S., Utah Agricultural College, 1913; M. S., Cornell University 1918, Ph. D., University of Minnesota, 1926. Instructor in Agronomy Utah Agricultural College, 1913-16; Assistant Professor of Agronomy Utah Agricultural College, 1917-18, Associate Professor, 1918-19; Professor, 1919—.
WILLIAM LAWRENCE WANLASS
Dean, School of Commerce, Professor of Agricultural Economics and Marketing

A. B., George Washington University, 1915, M. A., 1917; Ph. D. Johns Hopkins University, 1919. Instructor in History, George Washington University, 1916-17; Fellow in Political Science, Johns Hopkins University, 1917-19; Professor of Economics, Union College, Schenectady, New York, 1919-20; Dean, School of Commerce and Business Administration, Utah Agricultural College, 1920—, Professor of Business Administration, 1920-1926, Professor of Agricultural Economics and Marketing, 1926—.

*DAVID EARLE ROBINSON
Professor of Marketing, in Charge, Information-Service

B. S., Utah Agricultural College, 1911. Graduate Student, University of California, 1914-15; Instructor in History, Utah Agricultural College, 1911-14; Assistant Professor of English, Utah Agricultural College, 1916-17; In Charge of Department of Information-Service, 1916—; Assistant Professor of History, 1917-21, Professor of Marketing, 1921—; Registrar, 1924-27.

HENRY PETERSON
Professor of Psychology

A. B., Brigham Young University, 1894; Ph. B., University of Chicago, 1905; A. M., Harvard University, 1906; Graduate Student, Harvard University, 1907. Dean, Church Teachers College, Brigham Young University, 1909-11; Superintendent of Box Elder County Schools, 1911-12; Principal Ogden High School, 1912-13; Principal Jordan High School, 1914-17; Superintendent Logan City Schools, 1918-21; Professor of Education and Psychology, Utah Agricultural College, 1921-27. Professor of Psychology, 1927—.

JOEL EDWARD RICKS
Professor of History

A. B., University of Utah; A. M., University of Chicago, 1920; President, Weber Normal College, 1920-22; Professor of History, Utah Agricultural College, 1922—.

ALICE KEWLEY
Professor of Household Administration, Superintendent, Home Economics Cottage, in Charge, Home Economics Education

B. S., Utah Agricultural College, 1916; Instructor in Foods and Sanitation, Nephi High School, 1910-13; Head of Home Economics Department, Granite High School, 1913-20; Assistant Professor of Education and Psychology, Utah Agricultural College, 1921-23; Professor of Household Administration, 1923—.

*Absent on leave.
CARRIE CASTLE DOZIER
Dean, School of Home Economics, Professor of Foods and Dietetics

B. S., Oregon Agricultural College, 1918; A. M., University of California, 1919; Ph. D., 1923. Holder of Fellowship of the Hooper Foundation for Medical Research. Member of the faculty of the University of California, Southern Branch, 1922-23. Dean, School of Home Economics and Professor of Foods and Dietetics, Utah Agricultural College, 1923—.

MARTIN J. O'BRIEN
Professor of Military Science and Tactics

Major, Coast Artillery Corps, United States Army,—.

WILLARD GARDNER
Professor of Physics

B. S., Utah Agricultural College, 1912; M. S., University of California, 1915; Ph. D., 1916. Principal Murdock Academy, 1916-17; Graduate Assistant and Instructor in Physics, University of California, 1913-16; Professor of Physics and Mathematics, Brigham Young College, 1917-18; Associate Professor of Physics, Utah Agricultural College, 1918-24, Professor, 1924—.

BERT LORIN RICHARDS
Professor of Botany and Plant Pathology

B. S., Utah Agricultural College, 1913, M. S., 1917; Ph. D., University of Wisconsin, 1919. Instructor, Utah Agricultural College 1913-15; Assistant Professor of Botany and Plant Pathology, 1915-17; Student, University of Chicago, Summer Quarter, 1916; Fellow, University of Wisconsin, 1917; Associate Professor of Botany and Plant Pathology, Utah Agricultural College, 1919-24, Professor, 1924—.

KENNETH COLE IKELER
Dean, School of Agriculture, Professor of Animal Husbandry

M. E., Pennsylvania Normal, 1909; B. S. A., Pennsylvania State College, 1913; M. S. A., Iowa State College, 1914. Livestock Field Agent United States Department of Agriculture, and North Carolina Experiment Station, 1915; Associate Professor of Animal Husbandry, Iowa State College, 1916-19; Studied the Agriculture of England and Scotland, Summer of 1917; Remount Service in France, 1918; Professor of Animal Husbandry, Iowa State College, 1919-20; Professor, of Animal Husbandry Utah Agricultural College, 1925—, Dean, School of Agriculture 1926—.
WILLIAM WILLIAMS HENDERSON  
Professor of Zoology and Entomology

A. B., Brigham Young College, 1903; graduate student, University of Chicago, 1904; M. A., Cornell University, 1905, Ph. D., University of California, 1924. Professor of Biology, Brigham Young College 1905-10; Principal Weber Academy, 1910-14. Professor of Zoology and Entomology, Utah Agricultural College, 1917-20; Utah Experiment Station Entomologist, 1917-20; Member Utah State Crops and Pests Commission, 1917-21. President, Brigham Young College, 1920-26, Professor of Zoology and Entomology, Utah Agricultural College, 1926—.

HERBERT J. PACK  
Professor of Entomology

B. S., Utah Agricultural College, 1913; M. S., 1923; Ph. D., Cornell University, 1925. Instructor in Zoology, Utah Agricultural College, 1913-14; Professor of Biology, Latter-day Saints University, 1914-18; Instructor in Zoology and Entomology, Utah Agricultural College, 1920-21; Assistant Professor, 1921-25, Associate Professor, 1925-26, Professor of Entomology, 1926—.

GUSTAV WILSTER  
Professor of Dairy Manufacturing

B. S., Dairy Manufacturing, Iowa State College, 1920; M. S., Dairy Husbandry, Iowa State College, 1921; Assistant Professor, Associate Professor, Professor of Dairy Manufacturing, Utah Agricultural College, 1921-1925; Superintendent of Manufacturing and Assistant General Manager, Weber Central Dairy Association, 1925-26. Graduate Student, Iowa State College, 1926-27. Professor of Dairy Manufacturing, Utah Agricultural College, 1927—.

BYRON ALDER  
Professor of Poultry Husbandry

B. S., Utah Agricultural College, 1912. Assistant Professor of Poultry Husbandry, Utah Agricultural College, 1913-25, Associate Professor, 1925. Professor, 1927—.

E. LOWELL ROMNEY  
Director of Athletics

A. B., University of Utah, 1917. Second Lieutenant, U. S. Army, 1917-18; Director of Athletics, Utah Agricultural College, 1919—.

ASA BULLEN  
Special Lecturer in Commercial Law

B. S., Utah Agricultural College, 1910; L. L. B., Harvard University, 1913; Lecturer in Law, Utah Agricultural College, 1917—.
AGRICULTURAL COLLEGE OF UTAH

BRIGHAM CECIL GATES
Professor of Music


AUGUST J. HANSEN
Associate Professor of Carpentry and Woodwork

B. S., Utah Agricultural College, 1911. Assistant Instructor, Utah Agricultural College, 1896-97, Instructor, 1897-1913, Assistant Professor of Carpentry and Woodwork, 1913-17, Associate Professor, 1917—.

AARON NEWEY
Associate Professor of Machine Work

B. S., Utah Agricultural College, 1912. Student, Stourbridge Technical School, England, 1884-1900; Assistant in Carpentry, Utah Agricultural College, 1906-07, Instructor in Forging, 1907-14; Assistant Professor of Forging, 1914-17, Associate Professor of Forging, 1917-20, Associate Professor of Machine Work, 1920—.

WILLIAM BOWKER PRESTON
Health Supervisor of Students

M. D., University of Illinois, 1916. Graduate work, West Side Hospital, Chicago, Illinois, 1916; Captain Medical Corps, U. S. Army, 1917-19; Medical Examiner, U. S. Veteran's Bureau, Utah Agricultural College, 1920-26, Medical Supervisor of Students, 1920—.

ALFRED H. POWELL
Associate Professor of Farm and Auto Mechanics

Four Years, Apprentice Machinist; Four Years, Iron, Bronze and Steel Foundryman Apprentice. Assistant in Automobile and Tractor Work, Utah Agricultural College, 1918-19; Assistant Professor of Farm and Auto Mechanics, 1919-20, Associate Professor of Farm Mechanics, 1920—.

CHARLES TARRY HIRST
Associate Professor of Chemistry

B. S., Utah Agricultural College, 1910, M. S., 1914; Graduate Student University of California, 1918-19; Instructor in Chemistry, Utah Agricultural College, 1919-15; Assistant Professor of Chemistry, Utah Agricultural College, 1915-24, Associate Professor, 1924—.
SHERWIN MAESER  
Associate Professor of Chemistry

A. B., Brigham Young University, 1909; Ph. D., University of California, 1921. Professor of Physics, Brigham Young University, 1916-19; Assistant in Chemistry, University of California, 1919-21; Assistant Professor of Chemistry, Utah Agricultural College, 1921-24, Associate Professor, 1924—.

DON WARREN PITTMAN  
Associate Professor of Agronomy

B. S., Iowa State College, 1914; M. S., Utah Agricultural College, 1916; Instructor in Agronomy, Utah Agricultural College, 1916-20; Assistant Professor of Agronomy, 1920-24, Associate Professor, 1924—.

EDMUND BURKE FELDMAN  
Associate Professor of Engineering

B. C. E., University of Cincinnati, 1916; Graduate Work, University of Minnesota, 1921-22; M. A., Utah Agricultural College, 1927; Licensed Structural Engineer, State of Illinois, Structural Designer, 1916-17; Structural Engineer, 1917-18; Assistant Engineer, U. S. Bureau of Aircraft Production, 1918-19; Bridge Designer, 1919-20; Structural Engineer, 1920-21; Instructor University of Minnesota, 1921-22; Assistant Professor of Agricultural Engineering, Utah Agricultural College, 1922-24, Associate Professor, 1924—.

JOSEPH R. JENSON  
Associate Professor of Physical Education

A. B., Brigham Young College, 1909. Recreational Director, Mather Field Flying School, 1918; Graduate Student, University of Wisconsin, Summer of 1912, Columbia University, Summer of 1916, University of California, Summer of 1919. Assistant Professor of Physical Education, Utah Agricultural College, 1917-25, Associate Professor, 1925—.

WALLACE J. VICKERS  
Associate Professor of English

B. S., Utah Agricultural College, 1912, A. M., Stanford University, 1925, Fellow in English, Stanford, 1925-26; Ph. D., 1926; Instructor in English, Latter-day Saints University, 1917-19, Head of the Department of English, 1919-20; Assistant Professor of English, Utah Agricultural College, 1920-26, Associate Professor, 1926—.

F. B. WANN  
Associate Professor of Plant Physiology

A. B., Wabash College, 1914; Ph. D., Cornell, 1920. Instructor in Botany, Cornell, 1915-23. Fellow in Biological Sciences, National Research Council, 1923-26; Associate Professor of Botany, Utah Agricultural College, 1926—.
JOSEPH ARCH GEDDES  
Associate Professor of Sociology

A. B., Brigham Young College, 1907; A. M., Columbia University, 1913; Ph. D., 1924. Principal Oneida Academy, 1914-19; Instructor in Economics, Branch Agricultural College, 1919-20; Professor of History and Social Science, Brigham Young College, 1922-26, Director Division of Arts and Sciences, 1925-26; Associate Professor of Sociology, Utah Agricultural College, 1926—.

RALPH M. RUTLEDGE  
Associate Professor of Economics


EZRA G. CARTER  
Associate Professor of Public Health and Physiology

B. S., Utah Agricultural College, 1913, M. S., 1919; Doctor of Public Health, University of Michigan, 1925. Graduate Student, Breslau University, Germany, Summer of 1914. Instructor in Bacteriology, Utah Agricultural College, 1914-16; Dairy Bacteriologist, U. S. Public Health Service, 1917; Assistant Professor of Bacteriology and Physiology, 1918-27. Associate Professor of Public Health and Physiology, 1927—.

HENRY OBERHANSLEY  
Associate Professor of Education

A. B., Brigham Young University, 1914. Graduate Student Iowa State College, 1920; Graduate Student, University of California, Summer, 1921; Principal, Iron County High School, 1916-18; Assistant State Leader, Junior Vocational Work, Extension Division, Utah Agricultural College, 1918-20; Assistant Professor of Education and Psychology, Utah Agricultural College, 1921-27. Associate Professor of Education and head of Dept. of Education, 1927—.

KATHERINE COOPER CARLISLE  
Specialist in Interpretative Dancing

B. S., Teachers' College, Columbia University, 1918. Diploma, State Normal School, Monclair, New Jersey, 1916; Tilestan Scholarship, Teachers' College, Columbia University, 1917-18; Instructor in Physical Education, Barnard College, 1918-21; Associate Professor of Physical Education for Women, Utah Agricultural College, 1922-26; Specialist in Interpretative Dancing, 1927—.
LEGRANDE R. HUMPHERYS

State Supervisor of Vocational Agriculture, In charge Teacher Training in Agriculture and Shop Work


CHARLOTTE KYLE

Assistant Professor of English

B. A., and M. A., Park College. Instructor in English, Utah Agricultural College, 1907-16; Assistant Professor, 1916—.

RAYMOND J. BECRAFT

Assistant Professor of Range Management

B. S., Utah Agricultural College, 1917; M. S., Iowa State College, 1923. Grazing Examiner, United States Forest Service, 1917-19; Assistant Professor of Range Management, Utah Agricultural College, 1919—. Fellow in Botany, University of Chicago, 1926-27.

WILBUR EVANS THAIN

Assistant Professor of Accounting

B. S., Utah Agricultural College, 1914. Graduate student, 1914-16; C. P. A., 1919. Instructor in Accounting, Utah Agricultural College, 1914-18; Cost Accounting, U. S. Engineers Corps, 1918-19; Instructor in Accounting, University of Wisconsin, Extension Division, 1919-20; Assistant Professor of Accounting, Utah Agricultural College, 1920—.

LEON D. HARDY

Assistant Professor in Correspondence-Study Department

B. S., Utah Agricultural College, 1917. Assistant, Correspondence-Study Department, Utah Agricultural College, 1917-20, Assistant Professor, 1920—.

SAMUEL ROY EGBERT

Assistant Professor of Forging

B. S., Utah Agricultural College, 1923; Assistant in Forging, Utah Agricultural College, 1920-21; Assistant Professor, 1921—.

*Absent on leave.
CHARLOTTE E. DANCY
Assistant Professor of Nursing, Dean of Women

Graduate Nurse, Johns Hopkins Training School, 1896; Head Nurse, Johns Hopkins Training School, 1896-1901; Assistant Superintendent of Nurses, University Hospital, Columbus, Ohio, 1901-02; In Charge, District Nursing Work in Newark, 1903-06; Graduate Student, Battle Creek Sanitarium and Instructor in Mental Hospital, Elgin, 1906-08; In Charge, Surgical Department, 1908-10; Superintendent of Nurses, Latter-day Saints Hospital, 1910-20; In Charge, Home Health and Nursing, Extension Division, Utah Agricultural College, 1920-21, Assistant Professor of Nursing, 1921—.

N. E. EDLEFSEN
Assistant Professor of Physics

B. S., Utah Agricultural College, 1916; M. A., University of California, 1923. Instructor in Physics, Utah Agricultural College, 1916-23; Assistant Professor, 1923—.

GEORGE DEWEY CLYDE
Assistant Professor of Engineering

B. S., Utah Agricultural College, 1921; M. S., University of California, 1923; Assistant Professor of Irrigation and Drainage, Utah Agricultural College, 1923—.

AARON F. BRACKEN
Assistant Professor of Agronomy

B. S., Utah Agricultural College, 1914; M. A., 1924; Foreman, Nephi Experiment Station, 1914-17; Instructor in Farm Management, Extension Division, Utah Agricultural College, 1917-18; Scientific Assistant in Agronomy, U. S. D. A., 1918-20; Superintendent, Nephi Sub-Station and Instructor in Agronomy, 1921-24; Assistant Professor, 1924—.

*CHRISTINE BOCKHOLD CLAYTON
Assistant Professor of Foods and Dietetics

B. S., Utah Agricultural College, 1915; Graduate Student University of Chicago, 1923. In Charge, Department of Home Economics, Branch Agricultural College, and Home Demonstration Agent for Iron County, 1919-22; Nutrition Specialist, Extension Division, Utah Agricultural College, 1923-24; Assistant Professor of Foods, 1924—.

ALMA ESPLIN
Assistant Professor of Wool Management

B. S., Utah Agricultural College, 1916; Graduate student, University of Wyoming, 1924-25; Studying wool grading and manufacturing, Wash-

*Absent on leave.
AGRICULTURAL COLLEGE OF UTAH

Washington, Philadelphia and Boston, Spring of 1925. County Agricultural Agent, Iron County, 1916-24, Assistant Professor of Wool Management, Utah Agricultural College, 1925—.

RUSSELL ELWOOD BERNTSON
Secretary, Treasurer and Purchasing Agent

VERA CARLSON
Secretary to the President

HATTIE SMITH
Assistant Librarian

DAN ARTHUR SWENSON
Assistant Professor of Carpentry and Woodwork

B. S., Utah Agricultural College, 1915; Student Armour Institute of Technology, Summer, 1919; Assistant in Carpentry and Woodwork, Utah Agricultural College, 1913-16; Instructor, 1916-26, Assistant Professor, 1926—.

FANNIE MAUGHAN VERNON
Assistant Professor of English Extension

SIDNEY STOCK
Assistant Professor of Farm and Auto Mechanics

B. S., Utah Agricultural College, 1922. Instructor in Auto Mechanics, Ignition, Starting and Lighting and Storage Batteries, Utah Agricultural College, 1919-26; Assistant Professor of Farm and Auto Mechanics, 1926—.

CHARLES E. McCLELLAN
Assistant Professor of Education

A. B., Brigham Young University, 1914; A. M., Utah Agricultural College, 1923; Graduate student, University of California, 1925-26; Superintendent Schools, Rigby, Idaho, 1914-15; Student Summer Quarter, University of California, 1915; Principal, Millard Academy, 1915-17; Superintendent of Schools, Rigby, Idaho, 1917-20; Instructor in English and Education, Utah Agricultural College, 1921-23; Instructor in Education, 1923-25; Assistant Professor of Education, Utah Agricultural College 1926—

*REED BAILEY
Assistant Professor of Geology

B. S., University of Chicago, 1924. Geological Survey Work in Utah, Summer of 1922 and in Missouri, Summer of 1923; Instructor in Geology, Utah Agricultural College, 1924-26, Assistant Professor, 1926—.

*Absent on leave, Fall quarter.
WALTER WELTI  
Assistant Professor of Vocal Music

B. A., Cornell University, 1924; Graduate student, 1924-25; Graduate student, New York University, 1926; Instructor in English, Utah Agricultural College, 1925-26; Assistant Professor of Vocal Music, 1926—.

JOHN L. HANLEY  
Assistant Professor of Military Science and Tactics

U. S. M. A., 1918. First Lieutenant, Coast Artillery Corps, United States Army—.

ALMA NICHOLAS SORENSEN  
Assistant Professor of English

A. B., Brigham Young College, 1909; A. M., Harvard University, 1917 Instructor in English, Brigham Young College, 1909-10; Professor of English, 1912-26; Assistant Professor of English, Utah Agricultural College, 1926—.

MARJORIE GOWANS  
Assistant Professor, Physical Education for Women


DELROY V. GARDNER  
Assistant Professor of Accounting

B. S., Utah Agricultural College, 1922. M. B. A., Harvard, 1927. Assistant Professor of Accounting, Utah Agricultural College, 1927—.

DELMAR C. TINGEY  
Assistant Professor in Agronomy

B. S., Utah Agricultural College, 1922; M. A., 1924; Assistant in Agronomy, Utah Agricultural College, 1922-25; Instructor, 1925-27; Assistant Professor, 1927—.

W. H. WARNER  
Assistant Professor in Poultry Husbandry

B. S., Utah Agricultural College, 1926. Assistant in Poultry Husbandry Utah Agricultural College, 1925-26, Instructor, 1926-27; Assistant Professor, 1927—.
HARRY H. SMITH
Assistant Professor in Animal Husbandry

B. S., University of Nebraska, 1920; M. S., Colorado Agricultural College, 1926; Instructor in Animal Husbandry and Superintendent Scottsbluff Experiment Station, University of Nebraska, 1920-21; Instructor in Meats, Colorado Agricultural College, 1921-24; Assistant Professor in Meats, 1924-27; Superintendent Meat Awards, Western National Livestock Show, Denver, 1922-27; Assistant Professor in Meats and Stock Judging, Utah Agricultural College, 1927—.

FRANCIS M. COE
Assistant Professor of Horticulture

B. S. Oregon Agricultural College, 1923; M. S. Iowa State College, 1924; Instructor in Horticulture, and in charge of Nebraska Fruit Farm, University of Nebraska, 1925-26; Assistant Professor of Horticulture, Utah Agricultural College, 1927—.

EMIL HANSEN
Superintendent of Grounds and Greenhouses, Instructor in Landscape Gardening, Extension

Graduate, Technical School in Landscape Gardening, Denmark; Fellow Royal Garden Association, 1895-97; Instructor, Stormley School of Gardening, Norway, 1897-99. Landscape Gardener, Wandamere Park, Salt Lake City, 1904-06; Landscape Gardener, Rose City Cemetery, Portland, 1906-14; Superintendent, Grounds and Greenhouses, Utah Agricultural College, 1914—. Assistant in Horticulture, 1918-20. Instructor, 1920—.

THELMA FOGELBERG
Instructor in Stenography and Business Practice

Student, Utah Agricultural College, 1917-19; Instructor in Stenography and Business Practice, Utah Agricultural College, 1919—.

HARRY R. REYNOLDS
Instructor in Art

Graduate of the three-year course, Art Institute Chicago, 1923. Instructor in Art, Utah Agricultural College, 1923—.

HELEN KNOTT
Instructor in Textiles and Clothing

B. S., Teachers' College, Columbia University, 1924; Student, Brown's Salon Studio, New York City; Instructor in Smith-Hughes work Maryville College, Maryville, Tenn., 1924-25. Instructor in Textiles and Clothing, Utah Agricultural College, 1925—.
WILLIAM HAROLD BELL  
*Assistant Registrar*


H. LORAN BLOOD  
*Instructor in Botany and Plant Pathology*

B. S., Utah Agricultural College, 1926. Assistant in Botany and Plant Pathology, Utah Agricultural College, 1924-26, Instructor, 1926—.

CHESTER J. MYERS  
*Instructor in Speech*

A. B., University of Utah; A. M., University of Iowa 1925. Professor of Dramatic Art and Public Speaking, Weber College, 1925-26; Instructor in Public Speaking, Utah Agricultural College, 1926—.

FRED HAMMERLY  
*Instructor in English*

B. A., University of Wisconsin, 1925. M. A., 1926. Instructor in English, Utah Agricultural College, 1926—.

HARRIET MORGAN  
*Instructor in Foods*

B. S., Utah Agricultural College, 1926; Assistant in Foods, Utah Agricultural College, 1926-27; Instructor, 1927—.

MILTON MERRILL  
*Instructor in History and English*

B. S. Utah Agricultural College, 1925; in charge, Information-Service Dept., 1927—.  
In Charge, Information-Service Dept., 1927—.

MARY SORENSON  
*Assistant in Library*

CHARLES BATT  
*Superintendent of Water, Heating and Lighting Plant*

RASMUS OLUF LARSON  
*Superintendent of Buildings*
STANDING COMMITTEES
1927-28

The President of the College is ex-officio a member of each standing committee.

**Advanced Standing**—Professor W. W. Henderson.

**Attendance and Scholarship**—Professors F. L. West, N. A. Pedersen, Henderson, Vickers, Jenson, Dancy.

**Athletic Council**—Professors Cardon, Geo. B. Caine, Romney, Mr. Berntson.

**Awards and Honors**—Professors Wanlass, Linford, Dozier.

**Boy Scout Activity**—Professors Edlefsen, Richards, Fletcher, Oberhansley.

**Campus Improvement**—Professors Ray B. West, William Peterson, Fletcher, Mr. Emil Hansen.

**Certification of Teachers**—Professors Saxer, Oberhansley, McClellan, Mr. Bell.

**College Editor**—Professor Sorensen.

**Debating**—Professors Vickers, Daines, Geddes, Kyle, Miss Smith.

**Entrance**—Professors Hirst, Egbert, Feldman, Edlefsen, Pack.

**Exhibits**—Professors Fletcher, Moen, A. J. Hansen, Alder, Mr. Emil Hansen.

**Graduate Work**—Professors F. L. West, Greaves, Israelsen, Stewart, P. E. Peterson.

**Graduation**—Professors O. W. Israelsen, P. E. Peterson, Mr. Bell.

**High School Relations**—Professors Henry Peterson, Kewley, Romney, Oberhansley, Geddes.

**Library**—Professors Ricks, Arnold, Wanlass, Stewart, Sorensen, Dozier, Miss Smith.

**Loan Fund**—Mr. Berntson, Professors Stewart, Dancy.

**Physical Education and Military Work**—Professors Hill, Becraft, Newey, Dr. Preston.

**Recommendations for Employment**—Professors Oberhansley, Kewley, McClellan.

**Sectioning Committee**—Professors Daines, Moen, Kewley, Carter, Kyle, Blood.

**Schedule**—Professor Maeser.

**Student Affairs**—Professor Jenson.

**Student Body Organization**—Professors N. A. Pedersen, McClellan, Bailey.

**Student Employment**—Mr. Burgoyne.
EXPERIMENT STATION STAFF
1927-28

WILLIAM PETERSON, B. S.
Director and Geologist

HYRUM JOHN FREDERICK, D. V. M.
Veterinarian

JOSEPH EAMES GREAVES, Ph. D.
Chemist and Bacteriologist

GEORGE BALLIF CAINE, A. M.
Dairy Husbandry

REUBEN LORENZO HILL, Ph. D.
Human Nutrition

GEORGE STEWART, Ph. D.
Agronomist

ORSON WINSO ISRAElsen, Ph. D.
Irrigation and Drainage

BYRON ALDER, B. S.
Poultryman

DAVID STOUT JENNINGS, Ph. D.
Soils

RAYMOND J. BEcRAFT, M. S.
Range Management

WILLARD GARDNER, Ph. D.
Physicist

BERT LORIN RICHARDS, Ph. D.
Botanist and Plant Pathologist

KENNETH C. IKELER, M. S.
Animal Husbandman

HERBERT J. PACK, Ph. D.
Entomologist

PHILIP VINCENT CARDON, B. S.
Farm Economist

CARRIE C. DOZIER, Ph. D.
Home Economics

LUTHER MURKINS WINSOR, B. S.
Associate in Irrigation and Drainage
EZRA G. CARTER, Dr. P. H.
Associate Bacteriologist

CHARLES TARRY HIRST, M. S.
Associate Chemist

DON WARREN PITTMAN, M. S.
Associate Agronomist

*MOYER DELWIN THOMAS, M. A.
Associate Soil Chemist

F. B. WANN, Ph. D.
Associate Plant Physiologist

JOS. A. GEDDES, Ph. D.
Associate in Rural Sociology

RAYMOND J. BECRAFT, M. S.
Assistant in Range Management

GEORGE D. CLYDE, M. S.
Assistant in Irrigation and Drainage

AARON F. BRACKEN, M. A.
Superintendent, Nephi Sub-station

ALMA L. WILSON, M. A.
Superintendent, Davis County Experiment Farm

J. R. BATEMAN, B. S.
Superintendent, Panguitch Livestock Farm

A. C. ESPLIN, B. S.
Assistant Animal Husbandman

CHARLES J. SORENSON, M. A.
Assistant Entomologist

DELMAR C. TINGEY, M. A.
Assistant in Agronomy

ALMEDA PERRY BROWN, B. S.
Assistant in Home Economics

W. PRESTON THOMAS, M. S.
Assistant in Marketing

GEORGE F. KNOWLTON, M. S.
Assistant Entomologist

H. LORAN BLOOD, B. S.
Assistant Plant Pathologist

*Absent on Leave.
WILLIAM H. WARNER, B. S.  
Assistant Poultryman

GEORGE Q. BATEMAN, B. S.  
Superintendent, Dairy Farm

JOHN W. CARLSON, M. A.  
Superintendent Alfalfa Seed Expt. Station, Uintah Basin

H. VERNON HALL, B. S.  
Superintendent Sheep Experiment Farm

HARRIET MORGAN, B. S.  
Assistant in Home Economics

LEMOYNE WILSON, B. S.  
Supt. San Pete Experiment Farm

RUSSELL E. BERNTSON  
Secretary and Purchasing Agent

BLANCHE C. PITTMAN, A. B.  
Publications and Library

DAVID A. BURGOYNE, B. S.  
Secretary to the Director

EXTENSION SERVICE STAFF

WILLIAM PETERSON, B. S.  
Director

WILLIAM WHITE OWENS, M. A.  
Assistant Director and County Agent Leader

RENA BAKER MAYCOCK  
State Leader, Home Demonstration Work

JAMES CHRISTIAN HOGENSON, M. S. A.  
Agronomist

BYRON ALDER, B. S.  
Poultry

EMIL HANSEN  
Specialist, Landscape Gardening

SADIE O. MORRIS, M. S.  
Food Specialist

AFTON ODELL, B. S.  
Clothing Specialist
DAVID P. MURRAY, B. S.
State Boys' and Girls' Club Specialist

ALMA C. ESPLIN, B. S.
Sheep and Wool Specialist

EFFIE SMITH BARROWS, B. S.
Home Management Specialist

KENNETH C. IKELER, M. S.
Animal Husbandman

WILLIAM H. WARNER, B. S.
Assistant, Poultry

PHILIP VINCENT CARDON, B. S.
Farm Economy and Publicity

ROBERT H. STEWART, B. S.
Asst. Professor, County Extension Agent, Box Elder County

ROBERT L. WRIGLEY, B. S.
Asst. Professor, County Extension Agent, Cache County

WILLIAM J. THAYNE, B. S.
Asst. Professor, County Extension Agent, Utah County

ORSON P. MADSEN, B. S.
Asst. Prof., County Ext. Agent, Carbon and Emery Counties

ALBERT E. SMITH, B. S.
Assistant Professor, County Extension Agent, Juab County

DELORE NICHOLS, B. S.
Assistant Professor, County Extension Agent, Davis County

ARCHIE L. CHRISTIANSEN, B. S.
Assistant Professor, County Extension Agent, Weber County

CHARLES O. STOTT, B. S.
Assistant Professor, County Extension Agent, Sanpete County

STEPHEN ROY BOSWELL, B. S.
Assistant Professor, County Extension Agent, Sevier County

ELLEN AGREN, B. S.

VERE L. MARTINEAU, B. S.
Assistant Professor, County Extension Agent, Salt Lake County

CLYDE R. RICHARDS, B. S.
Assistant Professor, County Extension Agent, Morgan County
MORGAN P. MCKAY, B. S.
Asst. Professor, County Ext. Agent, Piute and Garfield Counties

IVY LOWRY HALL, B. S.
Asst. Professor, District Agent, Salt Lake and Tooele Counties

ERASTUS PETERSON, B. S.
Asst. Professor, County Extension Agent, Uintah County

DAVID SHARP, JR., B. S.
Asst. Professor, County Extension Agent, Summit County

LEW MAR PRICE, B. S.
Assistant Professor, County Extension Agent, Beaver County

RUBY SMITH, B. S.
Asst. Prof., District Ext. Agent, Wasatch, Utah and Juab Counties

LYMAN H. RICH, B. S.
Asst. Professor, County Extension Agent, Wasatch County

HUGH HURST, B. S., D. V. M.
Assistant Professor, County Extension Agent, Tooele County

MYRTLE DAVIDSON, B. S.
Asst Prof., District Ext. Agent, Cache and Box Elder Counties

WALTER F. SMITH, B. S.
Asst. Professor, Asst. County Extension Agent, Utah County

WILLIAM R. SMITH, B. S., D. V. M.
Assistant Professor, County Extension Agent, Rich County (Part-time co-operation with Wyoming)

IDA R. MITCHELL
Clerk

DAVID A. BURGOYNE, B. S.
Secretary to the Director

MARY HANSEN
Stenographer
Agricultural College of Utah

The Agricultural College of Utah is in Logan, the county seat of Cache county, one of the most prosperous agricultural sections in the State. The city has a population, thrifty and progressive, of about 12,000; it is quiet, orderly, clean and generally attractive. An excellent bus line serves the city. Logan is on the Yellowstone Highway, the Utah Idaho Central Electric line and the Oregon Short Line Railroad.

The College, uniquely situated on a broad hill overlooking the city, one mile east of Main Street, commands a view of the entire valley and surrounding mountain ranges. The site of the College was formed by the receding waters of prehistoric Lake Bonneville, which built an enormous delta at the mouth of Logan canyon upon which the College buildings and farms are located. The beauty and geological significance of the location are perhaps unsurpassed. A half mile to the south is Logan river. A mile to the east is a magnificent mountain range with a picturesque canyon. In other directions are towns and farms of Cache County distinctly visible through the clear atmosphere. The valley is a fertile, slightly uneven plain, 4,600 feet above sea level, about twelve by sixty miles in dimensions, almost entirely under cultivation and surrounded by the Wasatch mountains. It is one of the most attractive and healthful valleys in the West.

POLICY

The Agricultural College of Utah provides, in accordance with the spirit of the law under which it was organized, a liberal, thorough and practical education. The two extremes in education, empiricism and the purely theoretical, are avoided, for the practical is based upon and united with the thoroughly scientific. In addition to the practical work of the different courses, students are given thorough training in the sciences, mathematics, history, English, art, modern languages and other related subjects. The object is to foster all that makes for right living, good citizenship and high efficiency.

Under this general policy, the special purpose of the Agricultural College of Utah is to be of service in the upbuilding of the State and
the great West to which it belongs. The instruction in agriculture and agricultural engineering deals with the special problems relating to the conquest of the great areas of unoccupied lands, the proper use of the water supply and the kinds of crops or live stock which in Utah may be most profitable; instruction in mechanic art points out the most promising trades and teaches them so as to meet the needs of the State; instruction in commerce relates to the undeveloped resources and the present commercial conditions of the State and investigates the principles and methods to be applied in the commercial growth of Utah; instruction in home economics teaches the women right living and economic independence.

The dominating spirit of the Agricultural College of Utah is to make the common work of the world—the work that most men and women must do—both profitable and pleasant. The motto of the College is, Labor is Life.

HISTORY

The Agricultural College of Utah was founded March 8th, 1888, when the Legislative Assembly accepted the terms of the national law passed by Congress on July 2nd, 1862. Under this Act of Congress, and the Enabling Act providing for the admission of Utah to the Union, 200,000 acres of land were granted to the State from the sale of which there should be established a perpetual fund, the interest to be used in maintaining the College.

Under the Hatch Act, approved in 1887, the State receives $15,000 annually for the Experiment Station. Under the Adams Act of 1906, the State receives an additional $15,000 annually for research work by the Experiment Station. Under the Morrill Act of 1890, amended by the Nelson Act of 1907, the State receives $50,000 annually for instruction at the Agricultural College. Under the Smith-Lever Act, the State receives annually about $34,000 for agricultural extension work to be done by the Agricultural College. Under the Purnell Act, the state will receive in 1927-28 an appropriation of $40,000, which will increase by $10,000 each year until an annual income of $60,000 has been reached, for special work in agricultural and home economics.

These federal appropriations, together with the annual income from the land-grant fund, represent the income received from the general government. Since most of these funds must be used in accordance with the law for specific purposes, the institution is dependent on State appropriations for funds with which to provide additional in-
struction and for general maintenance. These needs have been gen-
erously met in the past by the Legislative Assemblies of the State.
In 1888 the sum of $15,000 was appropriated for buildings and the
County of Cache and the city of Logan gave one hundred acres of
land on which to build the college. Since that time the State has,
from time to time, appropriated sufficient funds to erect and maintain
most of the buildings described in a later section, besides providing
largely for instruction, experimentation and extension work.

By legislative action, the College receives annually 28.34 per cent.
of 28 per cent. of the total tax revenue of the State, after deducting
the revenue from 2.4 mills on the total State valuation (which is not
to be exceeded), set aside for the support of the elementary and the
high schools. In the same ratio the College will participate in the
revenue from the occupation tax. The State, moreover, provides
adequately for extension purposes and for experimental work and an
increasing fund for farm and home demonstration.

In September, 1890, the Institution was opened for the admission
of students. Degree courses were offered in agriculture, domestic
arts, civil engineering, mechanic arts and commerce; a preparatory
course and short courses in agriculture and engineering were also
given. Since that time many improvements have been made in the
courses; some have been abolished; various special, practical, year
and winter courses in agriculture, commerce, mechanic arts and home
economics have been added; the standard of the college work has been
raised. In 1903 the Board of Trustees established the School of
Home Economics, the School of Mechanic Arts, the School of Com-
merce and Business Administration and the School of General Science,
and in 1911 the School of Agricultural Engineering. In 1923, the
School of General Science was renamed the School of Basic Arts and
Science; in 1927, Arts and Sciences.

In 1913, the Branch Normal School at Cedar City was made a
branch of the Agricultural College and is so maintained.

During the school year of 1926-27 the College realized some long-
cherished ambitions. One of these was the enlargement of the plant
through (1) the construction of the Athletic Stadium and (2) the
completion of the Home Economics Cottage—the expression of the
Institution's home ideal. Largely owing to the generous cooperation
of the County Commissioners and the Commissioners of Logan City
the College obtained title to a level tract of land lying north of the
cattle barns and immediately joining the campus. Upon this tract
of land the Stadium was built. The other achievements of this same
great year are scholastic in nature. The first of these was the admission of the Utah Agricultural College to the accredited list of the Association of American Universities; which means that the College has received the mark of quality in scholarship. The second was the expansion of the curriculum of the Institution through the enactment by the State Legislature of the Course of Study Bill, which was signed by Governor Dern on March 7, 1927. The bill authorized the establishment of two new schools, Engineering and Education, removed restrictions in our work in Commerce, and justified the giving of major work in the arts, as well as in the sciences.

Additions and enlargements such as those mentioned have qualified the College to meet more adequately the growing demands of the state and fill better her position in higher education.

GOVERNMENT

The government of the College is vested in the Board of Trustees and, under its control, in the four other administrative bodies,—the Deans' and Directors' Council, the College Council, the College Faculty and the Staff of the Experiment Station. These, in their several capacities, determine the policy and maintain the efficiency of the institution.

THE BOARD OF TRUSTEES consists of thirteen members. Twelve are appointed by the Governor with the approval of the State Senate; the thirteenth is the Secretary of State who is ex-officio a member. This Board assumes the legal responsibility of the institution, cares for its general interests and directs its course by the enactment of all necessary by-laws and regulations. Vested in it is the power to establish professorships, to employ the instructing force and other officers of the College and to formulate the general policy of the institution.

Between sessions, the power of the trustees rests with an executive committee, whose actions are referred to the Board for approval. In addition, there are committees, largely advisory, that deal with the general interests of the College.

THE DEANS' AND DIRECTORS' COUNCIL consists of the President, the Deans of the various schools,—Agriculture, Home Economics, Engineering and Mechanic Arts, Commerce and Arts and Sciences, the Dean of the Faculty, the Director of the Summer Quarter, the Director of the Experiment Station and the Extension Division. This body has immediate supervision of instruction and
discipline in all the various schools. It constitutes a permanent executive and administrative committee of the College Council and Faculty.

**THE BUDGET COMMITTEE** which is advisory to the President, consists of the Deans of the five Schools of the Institution. In all budget matters involving the Experiment Station or Extension Division, the Director becomes a member of the Budget Committee.

**THE COLLEGE COUNCIL** consists of the President of the College and all members of the faculty holding the rank of professor, associate professor or assistant professor. Questions of discipline and policy are decided by this body.

**THE COLLEGE FACULTY** includes the President, professors, associate professors, assistant professors, ranking professors, instructors and assistants. It is concerned with ordinary questions of methods and discipline and with other matters pertaining to the general welfare of the College.

**THE STANDING COMMITTEES** have delegated to them the immediate direction of all the phases of college life. The conduct of the student in his college home and his regularity in performing college duties; the publications of the College and of the students; the interests of the students on the athletic field, in the amusement halls and in their various organizations—all are within the province of appropriate committees.

**THE EXPERIMENT STATION STAFF** consists of the President of the College, the Director of the Station and the heads, with their assistants, of the department of the Station. This body is employed in the investigation of problems peculiar to agriculture in this part of the country. It is further responsible for the circulation through private correspondence and regular bulletins, of such information as is of practical value to the farming communities.

**THE STUDENTS.** The College is maintained at public expense for public good. The students, therefore, are under a peculiar obligation to perform faithfully all their duties to the State, the Institution and the community. Most important of these is an active interest in all that concerns the moral and intellectual welfare of the College. Regularity of attendance, faithful attention to studies and exemplary personal conduct are insisted upon at all times by the administrative bodies of the College.

**FATHER’S AND MOTHER’S DAY.** On October 24th, 1925,
and annually thereafter, the Utah Agricultural College will conduct an open house to all fathers and mothers of students attending the Institution. This day has been set aside as a day when parents may see the college at its work and at its play and have an opportunity to meet the faculty, the associates of their sons and daughters and other parents who have entrusted the care of their children to the Utah Agricultural College.

**DIVISIONS OF THE COLLEGE**

The work of the College falls into three distinct divisions: first, the College Proper, giving instruction on the home campus of the College; second, the Research Division, having for its object the discovery of new truth or the new application of established truth, for the advancement of life; third, The Extension Division, which carries instruction to the people who can not come to the College campus.

To accomplish this work the following administrative divisions exist:

1. **The College Proper**
   - The School of Agriculture.
   - The School of Arts and Science.
   - The School of Commerce.
   - The School of Education.
   - The School of Engineering.
   - The School of Home Economics.

2. **Research.**
   - Experiment Station.

3. **Extension.**
   - The Extension Division.

The instructional and investigational forces with the equipment necessary to carry out the work of the above divisions are organized into departments, of co-ordinate authority, each of which represents a somewhat definite field of knowledge. All officers of instruction or experimentation belong to one or another of these departments. One professor, designated head, carries the administrative responsibility of the department.
Agriculture is the largest and most fundamental single industry, and is one of the most promising of modern professions. The new agriculture is not a profession of unceasing toil. The business of scientific farming challenges the training and ability of the best young blood of our nation. The freedom, health, intellect and profit derived from the new and scientific agriculture are attracting large numbers of thinking people. Utah and the entire Intermountain west will continue to offer excellent opportunities to those who prepare themselves for scientific agricultural pursuits.

Most of the students who graduate in Agriculture come from the farm, but not all of them. The Utah Agricultural College is equipped to teach practical as well as scientific agriculture. Our aim is "Science with Practice." We teach the sciences underlying practical agriculture, and supplement these with studies of sufficient breadth to place the student upon the high intellectual level of those trained in other professions. A great deal of the college instructional work requires demonstration material. This is amply supplied by the college farm, the experimental plant breeding plots, and the numerous breeds of livestock and poultry.

The student about to enter training in the Science of Agriculture, may wish to know something of the opportunities offered in his chosen profession. Young men thoroughly trained in agriculture will find a large field for the exercise of their talents. It is not to be expected that all graduates trained in Scientific Agriculture will return to the farm. The demand is too great for agriculturally trained students in other allied lines of industry. Agriculture needs clear thinkers, and skillful doers, not only on crop and livestock farms and in orchards and gardens, but also in our banks, legislative halls, and educational institutions.

SPECIFIC REQUIREMENTS FOR THE BACHELOR'S DEGREE

THE SCHOOL OF AGRICULTURE, TECHNICAL DIVISION

Major Subject, .......................................................... 30 hours

(At least one-half Senior College Credit)
Thirty hours forming a major subject must be chosen by the candidate in some one department in the School of Agriculture. The student must consult with the professor in charge of his major subject and secure his approval of the proposed combination of courses. This should be done as early as possible, and must be done not later than the beginning of the Junior year.

Minor Subjects .................................................................................... 18 hours

Eighteen hours, forming the minor subjects, must be chosen in some other related department or departments of the college.

GENERAL DIVISION.

Biological Science Group ........................................................................ 18 hours
Exact Science Group ............................................................................. 18 hours
Language Group .................................................................................... 18 hours
Social Science Group ............................................................................. 18 hours
Special Group ........................................................................................ 18 hours

The special group is additional work in one or more of the above groups in the general division, or in educational subjects, and will be designated by the Dean of the School of Agriculture.

Electives .................................................................................................... 42 hours

These electives are entirely at the disposal of the student. Those students not having had actual farm experience will be required to pass an examination conducted by the Heads of Departments in the School of Agriculture.

MAJORS, MINORS AND GROUPS.

The departments from which the major and minor subjects may be elected in the School of Agriculture and the subjects included in the various groups of the General Division are listed below.

SCHOOL OF AGRICULTURE.

Agricultural Economics  Chemistry
Agronomy  Dairying
Animal Husbandry  Entomology
Art (minor only)  Horticulture
Bacteriology  Range Management
Botany and Plant Pathology  Veterinary Science
GENERAL DIVISION.

BIOLOGICAL SCIENCE GROUP (18 Hours)
- Bacteriology
- Botany
- Entomology
- Physiology
- Veterinary Science
- Zoology

EXACT SCIENCE GROUP (18 Hours)
- Accounting (101, 102, 103, 107)
- Chemistry
- Geology
- Mathematics
- Physics

LANGUAGE GROUP (18 Hours)
- English and Speech
- French
- German
- Latin
- Spanish

SOCIAL SCIENCE GROUP (18 Hours)
- Agricultural Economics
- Business Administration
- Economics
- History
- Marketing
- Political Science
- Sociology

SPECIAL GROUP (18 Hours)
To be designated by the Dean of the School of Agriculture.

ELECTIVES (42 Hours)
These electives are to be chosen by the student.

SUGGESTIVE COURSES FOR STUDENTS MAJORING IN AGRONOMY

FRESHMEN.

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botany 21, 23, 23,</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>English 10,</td>
<td>3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Agronomy 1, 2, 3,</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Economics 1, 2, 3,</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

SOPHOMORE.

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1, Bacteriology 1,</td>
<td>5</td>
<td>3</td>
<td>..</td>
</tr>
<tr>
<td>General Zoology,</td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Animal Husbandry 1, Vet. 10,</td>
<td>5</td>
<td>4</td>
<td>..</td>
</tr>
<tr>
<td>Sociology, History,</td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 20, 21, 22,</td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Irrigation 1,</td>
<td></td>
<td>..</td>
<td>5</td>
</tr>
<tr>
<td>Public Speaking,</td>
<td></td>
<td>..</td>
<td>3</td>
</tr>
</tbody>
</table>
### JUNIOR.

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geology,</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Genetics,</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English,</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Organic Chemistry,</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soils 106, 108, 110,</td>
<td>4</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Education,</td>
<td>2</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Marketing,</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Agr. Economics 102,</td>
<td>3</td>
<td></td>
<td></td>
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</tbody>
</table>

### SENIOR.

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Husbandry 102, Hort. 101, Animal Husb. 105,</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Agronomy 104, 109,</td>
<td>3</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Agronomy 111, 112, 113,</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Agronomy 114, 116, 117,</td>
<td>3</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Botany 130 or 101; Dairy 110,</td>
<td>4</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>Education,</td>
<td>4</td>
<td>4</td>
<td>6</td>
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</tbody>
</table>

### SUGGESTED COURSE FOR STUDENTS MAJORING IN ANIMAL HUSBANDRY

#### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 10,</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Botany 21, 22, 23,</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Economics 1, 2, 3,</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Animal Husbandry 1, 2, Poultry 1,</td>
<td>5</td>
<td>5</td>
<td>4</td>
</tr>
</tbody>
</table>

#### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1, Organic Chem. 21, Dairy 3,</td>
<td>5</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Bacteriology 1, Zoology 1, 2,</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Vet. Science 10, Animal Husbandry 11, 7,</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Agronomy 1, 2, 3,</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Electives,</td>
<td>2</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>
### JUNIOR YEAR.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Genetics 111, English 111, 112,</td>
<td>5</td>
</tr>
<tr>
<td>Education and Psychology,</td>
<td>3</td>
</tr>
<tr>
<td>Sociology, Marketing, Public Speaking,</td>
<td>3</td>
</tr>
<tr>
<td>Animal Husbandry 107, Dairy Husbandry 109, Animal Husbandry 105,</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
</tr>
</tbody>
</table>

### SENIOR YEAR.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animal Husbandry 120, 121, 122,</td>
<td>1</td>
</tr>
<tr>
<td>Vet. Science 118, Animal Husbandry 103,</td>
<td>5</td>
</tr>
<tr>
<td>Agronomy 106, 105, 101,</td>
<td>4</td>
</tr>
<tr>
<td>Hort. 102, Poultry 105, or Animal Husbandry 109, Education,</td>
<td>3</td>
</tr>
<tr>
<td>Education and Elective,</td>
<td>5</td>
</tr>
</tbody>
</table>
THE SCHOOL OF ARTS AND SCIENCES

A. H. SAXER, Dean

Since its foundation the Utah Agriculture College has offered strong courses in the Sciences and, to a less extent, courses in the Arts, to carry out the technical work of the Schools of Agriculture, Home Economics, Commerce, and Engineering, and to assure to these students a liberal education and training for efficient citizenship.

An efficient instructing force and complete modern equipment have been provided in the natural and physical Sciences, as well as in English, Mathematics, History, and Languages. This makes it possible to satisfy the growing demand for strong baccalaureate courses affording a broad general education in the earlier years, and admitting of specialization later. Such courses constitute the School of Arts and Sciences which, paralleling the other degree courses of the College, lead to the degree of Bachelor of Science.

ADMISSION

See statement of entrance requirements of the College on Page 70.

Students who expect to become candidates for the bachelor's degree are reminded that they must complete the requirements for Senior College standing before they will be allowed to enter the Senior College. Read carefully the statements regarding "Junior College," and "Senior College" found on pages 71, 72.

GENERAL REQUIREMENTS FOR GRADUATION

Candidates for the Bachelor of Science Degree must meet in full all entrance requirements and present 180 quarter hours of College work as outlined below (exclusive of the required courses in Physical Education and Military Science).

THE FOUR BASIC GROUPS

The candidate must include 18 hours from each of the following four basic groups of work.

Language Group: (English, Modern Languages, Public Speak-
ing). Must include English 10, 11, 12 unless excused by the English Department.

**Social Science Group:** (History, Economics, Political Science, Sociology).

**Biological Science Group:** (Botany, Zoology, Public Health, Bacteriology, Physiology).

**Exact Science Group:** (Chemistry, Physics, Mathematics, Accounting 101, 102, 103, and 107).

---

**THE SPECIAL GROUP**

Eighteen hours of additional work are required in one or more of the above basic groups or in any closely related group of courses to be designated by the Dean. Candidates for the Bachelor of Science degree with the High School teacher's recommendation will be allowed to substitute their professional education credits for the work in this group.

---

**MAJOR SUBJECT**

Every student, at the time he enters the Senior College, will select a major subject in which at the time of graduation he must have completed at least 30 quarter hours of work. The student should consult with the professor in charge of his major work, and must secure his approval of the proposed combination of courses.

In the school of Arts and Sciences, students may major in the following departments: Art, Bacteriology and Bio-Chemistry, Botany, Chemistry, English and Public Speaking, Geology, History, Mathematics, Music, Physics, Political Science, Zoology and Entomology.

---

**MINOR SUBJECTS**

Eighteen hours in some field of work closely related to the major subject will be chosen by the candidate with the advice and consent of the Dean of the School.

---

**SENIOR COLLEGE WORK**

Fifty four (54) hours of Senior College work taken after the candidate has been granted Senior College Standing must be presented by each candidate for the B. S. degree. See page 72 for a definition of Senior College Work.
RESIDENCE, SCHOLARSHIP, ETC.

See page 73 for requirements for graduation.

OUTLINE OF THE FOUR YEAR COURSE LEADING TO THE B. S. DEGREE

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language Group</td>
<td>Language Group</td>
</tr>
<tr>
<td>Social Science</td>
<td>Social Science</td>
</tr>
<tr>
<td>Biol. or Exact Sc.</td>
<td>Biol. or Exact Sc.</td>
</tr>
<tr>
<td>Electives</td>
<td>Electives</td>
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<td></td>
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</tbody>
</table>

The electives should include at least 9 hours in the proposed major, and 6 hours in the minor subject.

<table>
<thead>
<tr>
<th>Third Year</th>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Subject</td>
<td>Major Subject</td>
</tr>
<tr>
<td>Minor Subject</td>
<td>Minor Subject</td>
</tr>
<tr>
<td>*Biol. or Exact Sc.</td>
<td>Special Group</td>
</tr>
<tr>
<td>Special Group</td>
<td>Electives</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Biological or Exact Science should be chosen so that the candidate has at least 18 hours in each of the two groups.

THE B. S. DEGREE IN ARTS AND SCIENCES WITH HIGH SCHOOL TEACHER’S RECOMMENDATION

It is a decided advantage to candidates for the High School Teacher’s Certificate to hold the standard bachelor’s degree in Arts and Sciences if their major work is in this field. Arrangements have been made with the School of Education to provide candidates for the Bachelor of Science degree in Arts and Sciences with the necessary professional educational courses to qualify them for the teacher’s Professional High School Certificate. The High School Teacher’s recommendation is given by the College and the Professional High School Certificate is awarded by the State Board of Education to those who include the following courses along with those presented for the B. S. degree:

The candidate must present 27 hours of Professional Educational subjects, which shall include Psychology (101 and either 102 or 103)
and Education 111, 115 and 121, or their equivalents. The candidate's Biological Science group must include Health Education 14 or 108, and the Social Science group shall include 5 credits of applied Sociology or Ethics, and 5 credits in Economics or Political Science.

Graduates of Standard Normal Courses, or those who have had one or more years of successful teaching experience, may have some of these requirements waived. Consult the Dean in regard to this matter.

Candidates for the Bachelor's Degree with the High School Teacher's recommendation will be allowed to substitute the 27 hours of professional education credits in place of the 18 hours of special group work mentioned in the requirement for the B. S. degree.

OUTLINE OF THE FOUR YEAR COURSE LEADING TO THE B. S. DEGREE AND THE TEACHER'S PROFESSIONAL HIGH SCHOOL CERTIFICATE

The first two years of this course will be the same as for the B. S. degree previously outlined, except that the candidate should elect in the Social Science and the Biological Science Groups the particular courses mentioned in the preceding paragraph.

<table>
<thead>
<tr>
<th>Third Year</th>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major subject</td>
<td>Minor Subject</td>
</tr>
<tr>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Minor subject</td>
<td>6</td>
</tr>
<tr>
<td>Biol. or Exact Sc.</td>
<td>6</td>
</tr>
<tr>
<td>Psychology 101, and 102, or 103</td>
<td>6</td>
</tr>
<tr>
<td>Education 111, 121,</td>
<td>8</td>
</tr>
<tr>
<td>Electives</td>
<td>10 to 16</td>
</tr>
<tr>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Training (Ed. 115)</td>
<td>8</td>
</tr>
<tr>
<td>Education or Psychology</td>
<td>5</td>
</tr>
<tr>
<td>Electives</td>
<td>14 to 20</td>
</tr>
</tbody>
</table>
The purpose of the School of Commerce is to give opportunity for liberal education with special emphasis upon the commercial and industrial phases of life. Persons who complete the commercial courses are prepared to assume leadership and responsibility in business and in various industries and professions. In order to meet the growing demands and to keep pace with recent tendencies in business education, students may major in accounting and business practice, agricultural economics and marketing, business administration, economics, political science, and sociology. A thorough training is offered in shorthand and typewriting for the preparation of teachers and secretaries.

For the professions of law and medicine the commercial courses afford excellent preparation. Graduates are prepared for positions as teachers in commercial schools. The demand for qualified teachers is greater than the supply, while many desirable positions as industrial managers are open to those who are qualified by training and experience.

ADMISSION

See statement of entrance requirements of the College on page 70.

Students who expect to become candidates for the Bachelor's Degree are reminded that they must complete the requirements for the Junior Certificate before they will be allowed to enter the Senior College. Read carefully the statements regarding "Junior College," and "Senior College" found on pages 71, 72.

GENERAL REQUIREMENTS FOR GRADUATION

Candidates for the Bachelor of Science degree must meet in full all entrance requirements and present 180 quarter hours of College work as outlined below (exclusive of the required courses in Physical Education and Military Science).

THE FOUR BASIC GROUPS

The candidate must include 18 hours from each of the Language, Social Science, and Exact Science groups, and 12 hours from the Biological group.
Language Group: (English, Modern Languages or Public Speaking) Must include English 10, 11, 12 unless excused by the English Department.

Social Science Group: (History, Economics, Political Science, Sociology).

Biological Science Group: (Botany, Zoology, Public Health, Bacteriology, Physiology).

Exact Science Group: (Chemistry, Physics, Mathematics, Accounting 101, 102, 103, and 107).

THE SPECIAL GROUP

Eighteen hours of additional work in one or more of the above basic groups or in any closely related group of courses to be designated by the Dean. Candidates for the Bachelor of Science degree with the High School teacher's recommendation will be allowed to substitute their professional education credits for the work in this group.

MAJOR SUBJECT

Every student, at the time he enters his Junior Year, will select a major subject in which at the time of graduation he must have completed at least 30 quarter hours of work. The student should consult with the professor in charge of his major work and must secure his approval of the proposed combination of courses.

In the school of Commerce, students may major in the following subjects: Accounting, Business Administration, Agricultural Economics, Marketing, Economics, Political Science, or Sociology.

MINOR SUBJECTS

Eighteen hours in some field of work closely related to the major subject will be chosen by the candidates with the advice and consent of the Dean of the School.

SENIOR COLLEGE WORK

Fifty-four (54) hours of Senior College work taken after the candidate has been granted Senior College Standing must be presented by each candidate for the B. S. Degree. See page 72 for a definition of Senior College Work.

RESIDENCE, SCHOLARSHIP, Etc.

See requirements for graduation on page 73.
# OUTLINE OF THE FOUR YEAR COURSE LEADING TO THE B. S. DEGREE

## First Year
- Language Group ........................................ 9
- Social Science .......................................... 9
- Biological Science ..................................... 6
- Exact Science ........................................... 6
- *Electives, ............................................. 15 to 21

## Second Year
- Language Group ........................................ 9
- Social Science .......................................... 9
- Biological Science ..................................... 6
- Exact Science ........................................... 6
- *Electives, ............................................. 15 to 21

*The electives should include at least 9 hours in the proposed major and 6 hours in the minor subject.

## Third Year
- Major Subject ........................................... 9
- Minor Subject .......................................... 6
- Exact Science ........................................... 6
- Special Group ........................................... 9
- *Electives, ............................................. 15 to 21

## Fourth Year
- Major Subject ........................................... 12
- Minor Subject .......................................... 6
- Special Group ........................................... 9
- Electives .................................................. 18 to 24

Note:—A detailed list of suggestive courses intended to prepare students for various fields of work will be supplied at time of registration.

# THE B. S. DEGREE IN COMMERCE WITH HIGH SCHOOL TEACHER'S RECOMMENDATION

It is a decided advantage to candidates for the High School Teacher's Certificate to hold the standard Bachelor's Degree in Commerce if their major work is in this field. Arrangements have been made with the School of Education to provide candidates for the Bachelor of Science degree in Commerce with the necessary professional educational courses to qualify them for the teacher's Professional High School Certificate. The High School Teacher's recommendation is given by the College and the Professional High School Certificate awarded by the State Board of Education to those who include the following courses along with those presented for the B. S. Degree.

The candidate must present 27 hours of Professional Educational subjects which shall include Psychology (101 and either 102 or 103) and Education 111, 115, and 121 or their equivalents. The candidate's Biological Science group must include Health Education 14 or 108,
and the Social Science group must include 5 credits of applied Sociology or Ethics and 5 credits in Economic or Political Science.

Graduates of Standard Normal Courses or those who have had one or more years of successful teaching experience may have some of these requirements waived. Consult the Dean in regard to this matter.

Candidates for the Bachelor's Degree with the High School Teacher's recommendation will be allowed to substitute the 27 hours of Professional Education credits in place of the 18 hours of Special Group work mentioned in the requirement for the B. S. Degree.

OUTLINE OF THE FOUR YEAR COURSE LEADING TO THE B. S. DEGREE AND THE TEACHER'S PROFESSIONAL HIGH SCHOOL CERTIFICATE

The first two years of this course will be the same as for the B. S. degree previously outlined except that the candidate should elect in the Social Science and the Biological Science Groups the particular courses mentioned in the preceding paragraphs.

<table>
<thead>
<tr>
<th>Third Year</th>
<th>Fourth Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Subject</td>
<td>Major Subject</td>
</tr>
<tr>
<td>Minor Subject</td>
<td>Minor Subject</td>
</tr>
<tr>
<td>Exact Science</td>
<td>Training (Ed. 115)</td>
</tr>
<tr>
<td>Psychology 101, 102, or 103</td>
<td>Education or Psychology</td>
</tr>
<tr>
<td>Education 111, 121,</td>
<td>Electives</td>
</tr>
<tr>
<td>Electives</td>
<td>10 to 16</td>
</tr>
</tbody>
</table>
THE SCHOOL OF EDUCATION
A. H. SAXER, Dean

The School of Education at the Utah Agricultural College was
authorized by enactment of the State Legislature in 1927 and has for
its specific function the training of teachers for the various certificates
and diplomas authorized by the State Board of Education.

TRAINING SCHOOL

The entire public school system of the city of Logan from the
lowest grades up through the Senior High School has been placed
at the disposal of the College for teacher training purposes. This
assures prospective teachers that they will receive their training in
one of the best public school systems in the State.

THE TWO YEAR NORMAL CERTIFICATE

The two year Normal Certificate will be awarded to all students
who satisfactorily complete the course of study for this certificate
outlined on page 51, provided that the last forty-five hours
required for the certificate have been earned at this institution; and
that thirty of the last forty-five have been earned in residence.
Graduates of the two year normal course are awarded the grammar
grade certificate by the State Board of Education.

SENIOR COLLEGE

The two year normal course is a standard collegiate course in
every way. Candidates for the Normal Certificate may qualify at the
same time for Senior College standing in any of the schools of
the College by a proper choice of the electives (28 to 34 hours)
which are permitted in the Normal course. Such students will elect
an additional six hours in one or more of the four basic groups
and an additional fifteen hours in the particular school in which the
candidate expects to receive the B. S. Degree. (See requirements for
Senior College standing, page 72.

Experience has shown that a large percentage of two year normal
graduates finally returned to College to complete the work for the
standard four year College degree. Such students will find it dis-
 distinctly to their advantage to have met the requirements for Senior College standing. This will assure the student that he is prepared to complete the remaining two years of his college course without handicap or delay at any standard college or university and in the particular field that he has chosen to do his major work.

**THE FOUR YEAR COLLEGE COURSE**

The four year course in the School of Education leads to the Degree Bachelor of Science in Education and the Certificate in School Administration, the Certificate in Supervision, or the High School Teacher's Certificate. Teachers with experience who do not hold the Bachelor's Degree and who wish to advance in their chosen field or prepare for administrative positions will find it to their advantage to qualify for the Bachelor's Degree in the School of Education. Candidates preparing to teach in the field of Music, Art, Public Health or Physical Education will register in the School of Education and choose their teaching major along these lines.

**THE B. S. DEGREE WITH TEACHER'S RECOMMENDATION**

It is a decided advantage to candidates for the High School certificate to hold the Standard Bachelor's Degree in the particular School, (Agriculture, Home Economics, Commerce, Engineering or Arts and Sciences) in which their major work is chosen. Arrangements have been made with all of the different Schools within the Utah Agricultural College to provide the candidates for their respective degrees with the necessary professional educational courses to qualify them to teach in these fields. Outlines of courses leading to the B. S. degree with the High School teacher's recommendation will be found under the respective Schools.

**ADMISSION**

See statement of entrance requirements of the College on page 70. Candidates for the two year normal certificate are reminded that they must present fifteen units of approved high school work, but they need not present all of the ten specified units unless they desire to qualify for Senior College standing at the same time. (See page 72).

**GENERAL REQUIREMENTS FOR GRADUATION**

Candidates for the Bachelor of Science degree must meet in full all entrance requirements and present 180 quarter hours of college
work as outlined below (exclusive of the required courses in Physical Education and Military Science).

**THE FOUR BASIC GROUPS**

The candidate must include 18 hours from each of the following four basic groups of work:

**Language Group:** (English, Modern Languages, Public Speaking). Must include English 10, 11, 12 unless excused by the English Department.

**Social Science Group:** (History, Economics, Political Science, Sociology). Must include five hours of applied Sociology and five hours of Political Science or Economics.

**Biological Science Group:** (Botany, Zoology, Public Health, Bacteriology, Physiology).

Must include Personal Hygiene and Health Education 14 or 108.

**Exact Science Group:** (Chemistry, Physics, Mathematics, Geology, Accounting 101, 102, 103 and 107).

**PROFESSIONAL EDUCATION SUBJECTS**

The candidate must present 27 hours of Professional Educational subjects which shall include Psychology (101 and 102 or 103) and Education (111, 115 and 121,) or their equivalents. Graduates of Standard Normal Courses or those who have had successful teaching experience may have some of these requirements waived. Consult the Dean in regard to this matter.

**TEACHING MAJORS**

A teaching major of at least 30 hours shall be completed in one subject that is taught in High School, (physical education, art, music, etc.).

**TEACHING MINOR**

A second teaching major (or teaching minor) of 18 hours shall be chosen in some group of subjects closely related to the teaching major.
SENIOR COLLEGE WORK

Fifty-four (54) hours of Senior College work taken after the candidate has been granted Senior College standing must be presented by each candidate for the B. S. Degree. (See page 72 for a definition of Senior College work).

RESIDENCE, SCHOLARSHIP, ETC.

See page 73 for detailed requirements for graduation.

CERTIFICATES IN SCHOOL ADMINISTRATION AND IN SUPERVISION

The four year course as outlined below leads to the degree of Bachelor of Science in Education and the Professional High School certificate. Teachers with experience who desire to qualify for the Certificate in School Administration or Supervision must include History of Education, Educational Supervision, Educational Administration, and special work in the Educational Seminar, depending upon the certificate desired.

OUTLINE OF COURSE FOR THE TWO YEAR NORMAL CERTIFICATE

<table>
<thead>
<tr>
<th>First Year</th>
<th>Second Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychology 3</td>
<td>Education 4, 5, 6, 41</td>
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<tr>
<td>Health Education 14</td>
<td>Training, Ed. 42</td>
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<tr>
<td>Personal Hygiene</td>
<td>*Exact or Biological Science</td>
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<tr>
<td>English Comp. 10, 11, 12</td>
<td>Group</td>
</tr>
<tr>
<td>Soc. Science Group</td>
<td></td>
</tr>
<tr>
<td>*Exact or Biological Science Group</td>
<td></td>
</tr>
<tr>
<td>†Electives 10 to 16 hours</td>
<td></td>
</tr>
</tbody>
</table>

*At least 5 hours of exact science must be chosen during the 2 years.
OUTLINE OF THE FOUR YEAR COURSE LEADING TO THE
B. S. DEGREE AND THE TEACHER’S PROFESSIONAL
HIGH SCHOOL CERTIFICATE

<table>
<thead>
<tr>
<th>First Year</th>
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<tbody>
<tr>
<td>Language Group ............. 9</td>
<td>Language Group ............. 9</td>
</tr>
<tr>
<td>Social Science Group ........ 9</td>
<td>Soc. Science ................. 9</td>
</tr>
<tr>
<td>Biol. or Exact Science .... 15</td>
<td>Biol. or Exact Science .... 15</td>
</tr>
<tr>
<td>Electives 12 to 18</td>
<td>Electives 12 to 18</td>
</tr>
</tbody>
</table>

Note: The Language Group must include English 10, 11, 12 unless the candidate has been excused from this requirement by the English Department. The Social Science Group should include at least five hours in Economics or Political Science, and five hours in applied Sociology or Ethics.

The Biological Science Group should include Health Education and Personal Hygiene.

The Electives should include at least nine hours in the proposed teaching major and six hours in the minor.

**Third Year**

*Educational Psychology 101

and 102 or 103 ................. 6

*Education 111 and 121 ........ 8

Teaching Major ................. 9

Teaching Minor ................. 6

†Biological or Exact Science 6

Electives 10 to 16

**Fourth Year**

*Training (Ed. 115) ............. 8

*Education or Psychology .... 5

Teaching Major ................. 12

Teaching Minor ................. 6

Electives 14 to 20

*Graduates of Standard Normal Courses and those who have taught successfully for one or more years may have some of these requirements waived.

†Exact or Biological Science to be chosen so that the candidate has at least 18 hours in each of the two groups.
THE SCHOOL OF ENGINEERING
RAY B. WEST, Dean.

It is the aim of this school to give the students a broad foundation in the fundamental principles of Engineering, together with sufficient knowledge of professional practice to enable them to apply these principles.

The School consists of three divisions; Civil Engineering, Agricultural Engineering, and Mechanic Arts. Civil Engineering students may choose their major in Irrigation and Drainage, Highways, Structural Design, or Sanitation. Agricultural Engineering students may specialize in Irrigation and Drainage, Farm Machinery and Farm Power, or Farm Structures, by choosing the electives in these fields.

ADMISSION

See statement of entrance requirements of the college on page 70.

Engineering students are advised that they will be somewhat handicapped if they are not able to present for entrance 1½ units of algebra and one unit of geometry.

GENERAL REQUIREMENTS FOR GRADUATION IN ENGINEERING

Candidates for the Bachelor of Science Degree in Civil Engineering or Agricultural Engineering must complete any one of the optional courses listed below which must include two years of Military Science and two years of Physical Education. When officially excused from Military Science or Physical Education equivalent additional work will be required.

The degree of Master of Science in Civil or Agricultural Engineering will be awarded upon completion of any one of the optional courses listed below and additional work is outlined on page 79 under the general requirements for the Master's Degree.

MECHANIC ARTS

This division offers a four year course leading to the degree of Bachelor of Science in Mechanic Arts, with the object in mind of training efficient auto mechanics and garage foremen, auto electricians, machine shop foremen, High School shop teachers, and lays an En-
gineering and Mechanical foundation for building contracting. Two years' trade courses in Machine Work, Forging, Woodwork, Auto Mechanics and Auto Ignition are provided for those who wish to become proficient tradesmen in these lines.

The shops are modern and well equipped, and ample floor space is provided for work.

ADMISSION

See statement of entrance requirements of the college on page 70. Students who expect to become candidates for the Bachelor's Degree must complete the requirements for the Junior certificate before they will be allowed to enter the Senior college. See page 71 for explanation for Junior and Senior college.

GENERAL REQUIREMENTS FOR GRADUATION

Candidates for the Bachelor of Science degree in Mechanic Arts must meet in full all entrance requirements and present 180 quarter hours of college work as outlined below exclusively of the required courses in Military Science and Physical Education.

THE FOUR BASIC GROUPS

The candidate must present the following number of quarter hours of work in each of the basic groups. Language Group, 12 hours; Social Science Group, 9 hours; Biological Science Group, 9 hours; Exact Science Group, 18 hours; Special Group, 18 hours; Special Technical Group, 30 hours.

(See page 75 for further explanation of what courses are to be used for each group.)

MAJOR AND MINOR

A major of 30 hours and a minor of 18 hours are required. For further explanation of these see page 74.
# OUTLINE OF COURSES IN CIVIL ENGINEERING AT THE AGRICULTURAL COLLEGE OF UTAH

Freshman and Sophomore Years Common to All C. E. Courses

## FRESHMAN

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Catalogue</th>
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<tbody>
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<td>Eng. 10-11-12</td>
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<td>Algebra, Trig., Analytics</td>
<td>Math. 45-46-47</td>
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<td>5</td>
<td>5</td>
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<td>General Chemistry</td>
<td>Chem.</td>
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<td>Mechanical Drawing</td>
<td>C. E. 61-62</td>
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<td>8</td>
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<td>Descriptive Geometry</td>
<td>C. E. 63</td>
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<td>Irrigation Practice</td>
<td>C. E. 41</td>
<td>3</td>
<td>3</td>
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</tr>
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<td>Highway Construction</td>
<td>C. E. 21</td>
<td>3</td>
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<td>Foundry, Machine Shop, etc.</td>
<td>Mech. Arts</td>
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## SOPHOMORE

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<td>Public Speaking</td>
<td>Speech 6</td>
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<td>Calculus</td>
<td>Math. 112-113-114</td>
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<td>Heat, Light, Sound</td>
<td>Physics 20-21-22</td>
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<tr>
<td>Plane Surveying</td>
<td>C. E. 81-82</td>
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<td>General Economics</td>
<td>Econ. 1-2-3</td>
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<td>Eng'r. Geology</td>
<td>Geol. 10</td>
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<td>Materials of Engineering</td>
<td>C. E. 1</td>
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### IRRIGATION AND DRAINAGE ENGINEERING

#### JUNIOR

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<th>Subjects</th>
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<tbody>
<tr>
<td>Hydraulics</td>
<td>C. E. 141-142</td>
<td>3</td>
<td>3</td>
<td>6</td>
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<tr>
<td>App. Mech. &amp; Str. of Mat’ls.</td>
<td>C. E. 101-102-103</td>
<td>5</td>
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<td>5</td>
<td>15</td>
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<td>Reinforced Concrete</td>
<td>C. E. 106</td>
<td>5</td>
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<tr>
<td>Design of Structural Details</td>
<td>C. E. 2</td>
<td>3</td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Contracts and Specifications</td>
<td>C. E. 190</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>Electives</td>
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<td>3</td>
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<td></td>
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<td>Oper. &amp; Main. of Irrig. Sys.</td>
<td>C. E. 144</td>
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#### SENIOR

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<td>Irrig. Institutions</td>
<td>C. E. 149-150</td>
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<td>18</td>
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</table>

Electives should be chosen from the following:
- Accounting
- Agronomy
- Business
- Economics
- Geology
- Mathematics
- Military Science
- All Branches of Engineering
### HIGHWAY ENGINEERING

Freshman and Sophomore Years, Common to all C. E. Courses

#### JUNIOR

<table>
<thead>
<tr>
<th>Subjects</th>
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<td>Design of Structural Details</td>
<td>C. E. 2</td>
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<td>Contracts and Specifications</td>
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#### SENIOR

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<tbody>
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<td>Water Supply</td>
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<td>Sewerage Systems</td>
<td>C. E. 194</td>
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</table>

Electives should be chosen from the following:

- Accounting
- Agronomy
- Business
- Economics
- Geology
- Mathematics
- Military Science
- All Branches of Engineering
## STRUCTURAL ENGINEERING

Freshman and Sophomore Years, Common to all C. E. Courses

### JUNIOR

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Catalogue</th>
<th>F.</th>
<th>W.</th>
<th>S.</th>
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<tr>
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<tr>
<td>Contracts and Specifications</td>
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<td>Dams, Walls &amp; Foundations</td>
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### SENIOR

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<td>C. E. 146-147</td>
<td>5</td>
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<td>Hydroelectric Design</td>
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<tr>
<td>Electives</td>
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<td>Bridge Design</td>
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Electives should be chosen from the following:
- Accounting
- Geology
- Agronomy
- Mathematics
- Business
- Military Science
- Economics
- All Branches of Engineering
### JUNIOR

<table>
<thead>
<tr>
<th>Subjects</th>
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<th>W</th>
<th>S</th>
<th>T</th>
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<td>Advanced Surveying</td>
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<td>Heat and Power Mach.</td>
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### SENIOR

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<th>S</th>
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<td>Hydroelectric Design</td>
<td>C. E. 148</td>
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<tr>
<td>Electives</td>
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<tr>
<td>Water Supply</td>
<td>C. E. 192</td>
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<td>Sewerage Systems</td>
<td>C. E. 194</td>
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<tr>
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<td><strong>Totals</strong></td>
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<td>17</td>
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<td>51</td>
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Electives should be chosen from the following:
- Accounting
- Agronomy
- Business
- Economics
- Geology
- Mathematics
- Military Science
- All Branches of Engineering
# AGRICULTURAL ENGINEERING COURSE

Freshmen Course same as Civil Engineering

<table>
<thead>
<tr>
<th>SOPHOMORE YEAR</th>
<th>F.</th>
<th>W.</th>
<th>S.</th>
<th>T.</th>
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<tr>
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<td>Math. 112-113-114</td>
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<tr>
<td>Heat, Light, Sound</td>
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<td>Plane Surveying</td>
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<tr>
<td>General Economics</td>
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<td>General Crops</td>
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<td>Materials of Const.</td>
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<tr>
<td><strong>Totals</strong></td>
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<td>17</td>
<td>15</td>
<td>17</td>
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</table>

| JUNIOR YEAR | | | |
|----------------|----|----|----|----|
| Hydraulics | C. E. 141-142 | 3 | 3 | 6 |
| App. Mech. & Str. of Mat'ls. | C. E. 101-102-103 | 5 | 5 | 5 | 15 |
| Ag'l. Economics | Ag. Econ. 101-102-106 | 3 | 3 | 3 | 9 |
| Design of Str. Details | C. E. 2 | 3 | 3 |
| Spec. and Contracts | C. E. 190 | 3 | 3 |
| Reinforced Concrete | C. E. 106 | 5 | 5 |
| Farm Machinery | A. E. 15 | 3 | 3 |
| Sewage Disposal | C. E. 193 | 3 | 3 |
| Electives | | 3 | 3 |
| **Totals** | | 17 | 16 | 17 | 50 |

| SENIOR YEAR | | | |
|----------------|----|----|----|----|
| Highway Transportation | C. E. 125 | 3 | 3 | 3 |
| Irrig. Design | C. E. 146-147 | 5 | 5 | 3 | 10 |
| Adv. Surveying | C. E. 181 | 5 | 5 |
| Soils | Agron. 106 | 5 | 5 |
| Farm Structures | A. E. 6 | 3 | 3 |
| Farm Motors | A. E. 13 | 3 | 3 |
| Electives | | 4 | 6 | 9 | 19 |
| **Totals** | | 17 | 17 | 17 | 51 |

**ELECTIVES**

1. Planning Farm Structures and Homes.
3. Irrigation Institutions.
5. Shop Courses and Agric. Courses on Approval.
THE SCHOOL OF HOME ECONOMICS

CARRIE C. DOZIER, Dean.

The School of Home Economics offers courses of study which are designed to fit young women for the important vocation of homemaking. While most emphasis is placed upon subject matter concerned with the three major lines of Foods and Dietetics, Textiles and Clothing, and Household Management, the courses are so planned as to give students a wide background in the natural and social sciences. In addition provision is made for the student who wishes to do so to elect the work necessary to qualify for a Teacher's Professional High School Certificate. Second only to the main purpose of caring for students registered in the School of Home Economics is the opportunity which is offered students in other Schools to elect courses in foods, textiles and household management. These service courses are designed especially for those who have not the time to complete the various foundational courses necessary for students majoring in the Home Economics field.

The School of Home Economics is housed in a four-story building, giving ample laboratory and classroom space for the work of the three sub-divisions: Foods and Dietetics, Textiles and Clothing, and Household Management. The top floor has a well equipped laboratory for the biological analysis of food and offers opportunity for graduate work in nutrition. In addition there is a comfortable and attractive rest room where girls may visit, rest or study. The Institution has completed within the last year a new home management house, which furnishes an ideal laboratory for senior students. The home nursing classes meet in a well equipped laboratory and classroom on the first floor, while the Clothing and Textiles classes are housed on the third floor. The foods laboratories, including a large and uniquely furnished dining room and kitchen adjoining, are on the first and second floors. The uniqueness is due to hand carved furniture made in the Mechanic Arts shops.

Young women who graduate from the School of Home Economics are fitted for various lines of work including homemaking, teaching, and extension work. They are also grounded in the fundamentals which prepare them for various positions in the commercial field.

ADMISSION

See statement of entrance requirements of the College on page 70.
Candidates for the Bachelor's Degree are reminded that they must complete the requirements for Senior College Standing before they will be allowed to enter the Senior College. Read carefully the statements regarding “Junior College,” and “Senior College” found on pages 71-72.

GENERAL REQUIREMENTS FOR GRADUATION

Candidates for the Bachelor of Science Degree must meet in full all entrance requirements and present 180 quarter hours of college work as outlined below (exclusive of the required courses in Physical Education).

THE FOUR BASIC GROUPS

Candidates must present 18 hours from each of the following three basic groups of work, and 24 hours from the fourth basic group.

Social Science Group: (History, Economics, Political Science, Sociology).

Biological Science Group: (Botany, Zoology, Public Health, Bacteriology, Physiology).

Exact Science Group: (Chemistry, Physics, Mathematics, Accounting 101, 102, 103 and 107).

Language Group: (English, Modern Languages or Public Speaking). Must include English 10, 11, 12 unless excused by the English Department.

THE SPECIAL GROUP

Eighteen hours of additional work must be completed in one or more of the above basic groups or in any closely related group of courses to be designated by the Dean. Candidates for the Bachelor of Science degree with the High School teacher’s recommendation will be allowed to substitute their professional education credits for the work of this group.

MAJOR SUBJECT

Students in the School of Home Economics may major in Foods and Dietetics, Textiles and Clothing or Household Management. At least by the time of entering Senior College the major should be selected and should receive the approval of the professor in charge of the Department concerned. Students must complete 30 hours of
work, 15 of which must be in the Senior College and the combination of courses selected must be approved by the Head of the Department.

MINOR SUBJECTS

Eighteen hours of work in some field of work closely related to the major subject must be chosen by the candidate with the advice and consent of the Dean of the School.

SENIOR COLLEGE WORK

Fifty-four (54) hours of Senior College work taken after Senior College standing has been granted must be presented by each candidate for the B. S. Degree. See page 72 for a definition of Senior College Work.

SUGGESTED OUTLINE OF THE FOUR YEAR COURSE LEADING TO THE B. S. DEGREE IN HOME ECONOMICS

<table>
<thead>
<tr>
<th>First Year</th>
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<tr>
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<td>Biological or Exact Science</td>
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<td>One or more Home Economics courses and Electives to make up</td>
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<table>
<thead>
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<th>Second Year</th>
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<td>Language Group</td>
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<td>Social Science</td>
<td>........</td>
</tr>
<tr>
<td>Biological or Exact Science</td>
<td>................</td>
</tr>
<tr>
<td>One or more Home Economics courses and Electives to make up</td>
<td>..........</td>
</tr>
</tbody>
</table>

The electives should include at least one course in the proposed major, and one course in the minor subject, and should also include any courses which may be prerequisites to these.

During the third and fourth years the student must complete enough work to make 30 units in the major, 18 in the minor and 18 in the Special Group. If a Professional High School Teacher's Certificate is desired the required professional educational courses must be included, and it will be found advantageous to have the basic groups filled before beginning the Senior College work. Attention is also called to the fact that a wider choice of teaching positions is open to graduates who can teach both foods and textiles.

THE B. S. DEGREE IN HOME ECONOMICS WITH HIGH SCHOOL TEACHER'S RECOMMENDATION

Candidates for the High School Teacher's Certificate in Foods, Textiles or Household Management will find it a decided advantage
to hold the standard Bachelor's Degree in Home Economics. Arrangements have been made therefore with the School of Education to provide candidates for the Bachelor of Science degree in Home Economics with the necessary professional educational courses to qualify them for the teacher's Professional High School Certificate. The High School Teacher's recommendation is given by the College and the Professional High School Certificate awarded by the State Board of Education to those who include the following courses along with those presented for the B. S. Degree.

Candidates must present 27 hours of Professional Educational subjects which shall include Psychology (101 and either 102 or 103), and Education 111, 121 and 122 or their equivalents. The candidate's Biological Science group must include Health Education 14 or 108, and the Social Science group 5 units of Applied Sociology or Ethics and 5 credits in Economics or Political Science.

Graduates of Standard Normal Courses or those who have had one or more years of successful teaching experience may have some or most of these requirements waived. Consult the Dean in regard to this matter.

Candidates for the Bachelor's Degree with the High School Teacher's recommendation will be allowed to substitute the 27 hours of Professional Education Credits in place of the 18 hours of Special Group work mentioned in the requirement for the B. S. Degree.

OUTLINE OF THE FOUR YEAR COURSE LEADING TO THE B. S. DEGREE AND THE TEACHER'S PROFESSIONAL HIGH SCHOOL CERTIFICATE

Five units in Economics or Political Science and five units in Applied Sociology, together with the 3 units in Health Education, should be taken before the candidate enters the Senior College. Conflicts in the Senior College will be more easily avoided if an additional course in education is elected in the Junior College. The remainder of the educational group will ordinarily best fit into the candidate's course of study as follows:

<table>
<thead>
<tr>
<th>Third year units</th>
<th>Fourth year units</th>
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</thead>
<tbody>
<tr>
<td>Phychology 101 and 102 or 103, 6</td>
<td>Practice Teaching (Education 122)</td>
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<tr>
<td>Education 111 and 121 .......... 8</td>
<td>Elective (If not completed before)</td>
</tr>
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</table>
SMITH-HUGHES TEACHERS

All students wishing to qualify as teachers of Home Economics under the Smith-Hughes act must include all of the work outlined above for the freshman and sophomore years, and complete the requirements for graduation with a major and minor in the School of Home Economics. They must include Household Administration 10 (Survey of Home Economics), Art 122 (Home Furnishing and Decoration), Household Administration 150 (Household Management, including twelve weeks residence in the Home Economics Cottage), Household Administration 125 (Mothercraft), Education 120 and 122 (Special Methods and Practice Teaching in Home Economics) together with sufficient additional Education subjects to meet in Utah State Board of Education requirements for the State High School Certificate.

THE SUMMER SESSION

For over twenty years the College has conducted a Summer session as an important part of its curriculum. In 1924 it conducted the first annual session of what has become widely known as the National Summer School. The purpose of this great educational undertaking is to bring to Logan with its delightful summer climate and its many recreational features, each year, a number of the leading educators of the nation, and thus to build, in the intermountain west, a summer school of wide influence.

During the Summer quarter each department of the College is represented, the courses of instruction being arranged to meet the particular needs of summer students. For the benefit of teachers, numerous courses in education are provided.

Students desiring to make up conditions or prepare for advanced work are given all the assistance possible. The entire equipment of the Institution is available for the Summer Session, and every care is taken to preserve the standard and the spirit of the College.
THE AGRICULTURAL EXPERIMENT STATION

WILLIAM PETERSON, Director.

The Agricultural Experiment Station is a division of the College, supported by Federal and State appropriations, supplemented by the receipts from the sale of farm products. The Station was established in 1889 for the purpose of conducting original researches or of verifying experiments in the various phases of agriculture. Essentially devoted to research and because of the advanced agricultural nature of the work, the Experiment Station is one of the most important divisions in the College. The Agricultural Experiment Station is composed of some fifteen departments, with a staff of forty highly trained specialists. Between fifty and sixty active projects are being conducted, each of which has a direct bearing on the original purpose of the Station's organization.

In the ordinary sense, the Station is not an institution where model farming is conducted. It has a much higher purpose. The practices of the farmer are subjected to scientific tests in order to determine why one is bad and another good. Acting on the suggestion thus obtained, the scientists begin new investigations in the hope that truths of great value to the farmer may be discovered.

The Station confines its efforts as far as possible to the particular problems of the intermountain region. Irrigation, the foundation of western prosperity, has received considerable attention. Experimental plots have been equipped where the value of different quantities of water, methods of application, and underlying irrigation principles have been given special study. Dry-farming problems are second only in importance to those of irrigation in the development of the West. Two experimental dry-farms are maintained (one in Juab County and one in San Juan County), on which every effort is made to increase production. Many of the present investigations involve water-holding capacity of soils, water requirements of crops, movement of plant-foods, and other questions fundamental to all systems of agriculture.

Other problems vitally affecting the agriculture of the West are under investigation. Alkali, the big problem of all arid and semi-arid countries, is receiving attention. Breeding experiments for the improvement of sugar-beets, potatoes, cereals, alfalfa, and livestock are in progress. Insect pests and plant diseases affecting western crops
and orchards are under constant surveillance. The micro-organisms of the soil which have recently been found to be an important factor in agriculture are being investigated. The development of better cropping methods, problems in the dairy industry, rations for livestock, effects of feeding hard-curded and soft-curded milk to infants, orchard-management effect of storage on certain vegetables and range-management problems are all receiving attention. Plant disease, horticultural, and soil surveys are in progress.

Through the passage in 1925 of what is known as the Purnell Bill, it has been possible to conduct research to ascertain the amount and kinds of food consumed by Utah farm families; to study the marketing of agricultural products and make sheep and wool investigations; to study ground-water development, crop production costs, effects of ultra violet rays, pastures, and rural sociology.

In addition to the projects carried on by the Station itself, it also maintains several cooperative projects with the U. S. Department of Agriculture.

At the present time the Station maintains twelve sub-stations, located in various parts of the state. These farms are as follows: Central Experiment Station, two miles north of the campus, Nephi Dry-farm Station in Juab County, High-altitude farm at Widtsoe, Experimental Dairy Farm, Logan, Experimental Sheep Farm, Logan, Kanab Farm at Kanab in Kane County, Uintah Basin Alfalfa-seed Experimental Farm, San Juan County Dry-farm, San Pete Truck Farm, and Carbon County Experimental and Demonstrational Farm.

Printed reports in the form of annual and biennial reports, bulletins, circulars, and reprints from technical articles, which contain results of findings and timely and practical information on various subjects, are issued from time to time. As long as these publications are available, they are sent out without charge to all persons requesting them.

The Utah Agricultural Experiment Station has a high educational value. A large number of the members of the Station Staff are also members of the regular College faculty; the students, therefore, receive first-hand information regarding the methods and results of the Station's work, as well as training in the application of these methods and results. The opportunities offered by the Station for advanced work in the several branches of science are of great importance. The scientific method and spirit characterize all its operations, and none can fail to be benefited by a study of the experiments which are continued throughout the entire year. The members of the Station Staff are always glad to assist advanced students in all possible ways.

For students especially prepared to help in research, and who at
the same time wish to continue their studies in the Institution, the Experiment Station offers each year a limited number of research graduate assistantships. These graduate assistantships allow the students to whom they are granted to earn $500 during the ten months of the school year, during which time they may earn, in addition, thirty hours of graduate credit.

**THE EXTENSION SERVICE**

The Extension Service is the joint representative of the United States Department of Agriculture and the Utah Agricultural College. Its purpose is to further the interests of Utah farms and rural homes by carrying the work of the Agricultural College and Experiment Station to these farms and homes, and demonstrating its application under their conditions. Its organization comprises supervisors and specialists with headquarters at the College, extension agents located in the field, cooperating agencies, and voluntary project leaders. The Extension Director has charge of all the work. He represents both the Department and the College in the administration of funds and in carrying on the program of work. Two State leaders function under the Director in supervising the agricultural and home economics work, respectively. The specialists, working in cooperation with the field agents, take the latest information and improved practices out to the people. The County Agricultural Agents and District Home Demonstration Agents, stationed out in the various counties, work directly with the people in securing the adoption of approved practices. Cooperation with existing rural organizations, chief of which has been the Farm Bureau, makes it possible to reach a greater number of people than could be served by individual work. The voluntary project leader assumes local leadership for the season in one project, such as grain seed production, kitchen improvement, or Boys' and Girls' club work. Club work with boys and girls is conducted by both the Agricultural and Home Demonstration agents, with the assistance of the Specialists.

**CORRESPONDENCE STUDY**

The Utah Agricultural College was one of the first educational institutions of the inter-mountain region to establish a Correspondence study department. Correspondence-study furnishes an excellent opportunity for systematic instruction to the student preparing for high school or college, the teacher, the professional or business
man, the club woman, the project leader in extension work—to all who cannot leave home.

Students must be nineteen years of age or submit fifteen units of high school work or be graduates of a high school for admission to correspondence-study courses of college grade.

Courses offered:

1. Academic studies which, under certain restrictions, count toward a degree.

2. Practical studies designed to advance men and women in a given occupation.

3. Reading Courses for the farmer; short, practical, non-credit courses in agronomy, animal husbandry, horticulture.

4. Reading Courses for the housewife; short, practical non-credit courses in sanitation, home management, home decoration, home care of the sick, etc.

5. Reading courses for the business man; short, practical non-credit courses in analysis of retail merchandising, retail store accounting, bookkeeping for the wholesale grocer, bookkeeping for the cooperative grain elevators and creameries.

6. Preparatory or high school course.

A special bulletin of the correspondence-study department will be mailed to any one interested.

The work of the Community Service Bureau, designed to help Utah towns and villages in community celebrations, club work and school life includes (a) play service, (b) club service, (c) community service, (d) debate service, and (e) library service.
ADMISSION

Entrance to the Freshman class is based upon graduation from an accredited high school, or upon the presentation of 15 approved high school units of work, or upon examination, in case of students of special training not obtained in high school. Prospective students are strongly urged to send a record of their credits to the Registrar at least two weeks before the opening of school. Students who expect to become candidates for the Bachelor's Degree from any of the Schools of the College should include (among those units presented for entrance), ten units in the following five groups—English, Mathematics, Social Science, Natural Science, and Modern Language—of which at least seven must be as follows:

- English .................................. three units
- Algebra .................................. one unit
- Geometry ................................. one unit
- Social Science ........................... one unit
- Natural Science .......................... one unit

(Requiring laboratory work)

Students may not receive more than Sophomore standing until the foregoing requirements have been met.

When a deficiency exists, the student will be required to complete 9 quarter hours of college work for each unit in which he is deficient, in addition to the regular group requirements in that field.

A student who has less than 15 units of high school work cannot enter unless he is beyond high school age, in which case he must register for vocational work.

Advanced Standing. The College does not grant credit for excess high school work. Advanced standing for work done in some other accredited college after the completion of 15 units of high school work may be granted by the Committee on Advanced Standing provided the student presents satisfactory evidence that the work offered is equivalent to the work for which he wishes to substitute it.

Class Standing. Thirty-six hours (36) of approved college work, in addition to the prescribed entrance requirements, are required for Sophomore rank; ninety hours and Senior College Standing for Junior Rank. (See page 70) and one hundred thirty hours and Senior College Standing for Senior rank. The foregoing requirements are to be exclusive of the required courses in Physical Education and Drill.
Registration. The Fall quarter opens on Friday, September 23, on which date entrance examinations will be given for those requesting them; also, special instruction and entertainment will be furnished for Freshmen. Freshmen will register on Saturday, September 24; former students will register on Monday, Sept. 26. The Winter quarter begins on Wednesday, January 4; the Spring quarter opens on Saturday, March 24; the Summer quarter on Monday, June 11. It is of decided advantage to register upon the opening date. The amount of work for which any student will be allowed to register will be reduced by one and one-half credit hours for each week or fraction thereof that the student is late in registering.

A fee of one dollar per day will be charged those who register late. In no case, however, will the fee for late registration exceed five dollars.

Fifteen Hours, exclusive of Physical Education and Drill, is the normal registration for any one quarter. A student may, however, with the consent of the Dean, register for seventeen hours.

Quarter Hours. A quarter hour credit is the credit given for one hour of lecture or three hours of laboratory work each week for twelve weeks.

The collegiate work of the institution is divided into two divisions: Junior College and Senior College. Courses numbered 1 to 99 inclusive, are Junior College courses. Those listed from 100 to 199 inclusive are Senior College courses. All courses with the numbers 200 and over are Graduate courses.

Qualified students may enter courses in any quarter, unless a statement to the contrary appears in the description of the courses.

THE JUNIOR COLLEGE

The work of the Junior College comprises the studies of the Freshman and Sophomore years. In this College it is expected that the student, in addition to fulfilling the prerequisites for the major work upon which he will concentrate in the upper division, will make an effort to establish a basis for that breadth of culture which will give him a realization of the methods and results of some of the more important types of intellectual endeavor, and a mental perspective that will aid him in reaching sound judgments. The Junior Class standing requirements are designed to provide in some degree for the accomplishment of this purpose, without unduly limiting the student’s opportunity to satisfy his individual tastes and preferences.

Students who expect to become candidates for advanced degrees either in Arts and Sciences or in the professional schools in this in-
stitution or in other leading colleges of the country should plan their courses with great care through consultation with their deans, in order to insure proper foundation for the technical work in the graduate division.

Junior College students will not be allowed to enter Senior College courses, except in meritorious cases and upon formal application approved by both the Dean and the Instructor of the course. Senior College credit will not be given to Junior College students.

SENIOR COLLEGE

REQUIREMENTS FOR SENIOR COLLEGE STANDING

1. The completion of the following high school work: ten units in the following five groups; English, Mathematics, Social Science, Natural Science, and Modern Language, of which at least 7 must be as follows:

   English .............................................. 3 units
   Algebra .............................................. 1 unit
   Geometry ............................................. 1 unit
   Social Science ..................................... 1 unit
   Natural Science ................................... 1 unit
   (Requiring laboratory work)

2. Two years' Military Science (Men), Two years' Physical Education (Men and Women).

   (A student who has been excused from Physical Education or Military Science for physical disability or other valid reasons must present one credit each quarter, for each subject from which he has been excused.)

3. a. The completion of ninety credits of work as hereinafter conditioned, excluding Physical Education and Military Science.

   b. The completion of forty-five quarter hours of credit in the four basic groups: Biological Science, Exact Science, Language, and Social Science, with not less than six in each of three of these groups, except that in the School of Mechanic Arts only thirty-three quarter hours of credit will be required in the four basic groups, with not less than 1/3 of the total hours required in each of three of the groups.

   (For the total number of hours required in the groups in the various schools, see the schedule printed in the requirements for graduation).

   c. The completion of an additional 15 hours of work in one
school. The aim of this requirement is to prepare the student for his major work in the Senior College.

The student will be expected to select a major department on entering the Senior College. The Dean will assign the student to the professor in charge of his major, who will act as his adviser.

GRADUATION

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE

The College confers the Degree of Bachelor of Science in Agriculture, Arts and Sciences, Agricultural Engineering, Civil Engineering, Commerce and Business Administration, Home Economics, Education, or Mechanic Arts upon students who meet the requirements specified herewith:

GENERAL REQUIREMENTS

1. Six quarters work in Physical Education by men and women and six quarters work in Military Science by men, provided that candidates who are officially excused from physical education or military science present one credit of other work for each quarter for each subject from which they have been excused.

2. One hundred eighty credits of collegiate work exclusive of Physical Education and Military Science of which fifty-four must be of Senior College grade, obtained after advancement to Senior College standing.

3. Thirty credits of work in a major, fifteen of which must be of Senior College grade; and eighteen credits forming a minor in a subject closely related or basic to the major.

4. Completion of required credits in basic and special groups as specified by each school and given on page 75.

5. Candidates must have been in residence at the Utah Agricultural College during three full quarters. During this period the candidate must have obtained at least 45 resident credits. The last 45 credits presented for the degree must have been earned in the College, and of these 45, at least 30 must have been earned in residence. The residence requirement may be satisfied by residence Summer School work.

6. An average grade of "C" or higher; credits of "D" grade not
to exceed one-fifth of those used toward graduation; and no credit for courses having a grade lower than “D”.

7. Written application to graduate, filed with the Graduation Committee about February 1st, containing information requested. A special fee of one dollar will be charged those applying later than March 1st.

8. Recommendation for graduation in writing by:
   (a) The Professor in charge of the major subject.
   (b) The Dean of the School in which the major work is done, and
   (c) The Committee on Graduation.

9. The candidates must be of good moral character and must have discharged all college fees.

10. Attendance in person at the Commencement exercises at which the candidate expects to secure the degree, unless excused in writing by the Graduation Committee for very urgent reasons.

**MAJOR AND MINOR SUBJECTS**

The student should choose, as early as possible, a department in which he desires to do his required 30 hours of major work as specified in paragraph 3 above. This choice should be made not later than the beginning of the Junior year. The student must obtain the approval of his proposed major courses from the Professor in charge of his major subject.

A minor subject consisting of 18 hours of work closely related or basic to the major must be selected and approved by the Dean of the School in which the major is chosen.

**GROUP REQUIREMENTS**

As briefly stated in paragraph 4 of the graduation requirements, each School except the School of Engineering, specifies a certain number of credits in four basic groups, a special group and an elective group.

**Basic Groups:** The purposes of the basic group requirements are to assure the student some knowledge of the fundamental sciences which are vital to human progress everywhere and also to assure some familiarity with languages and literature. These basic groups are Biological Science, Exact Science, Language, and Social Science. The number of credits in each group required by the various schools (Engineering excepted) for the different Bachelors' degrees are
given in Table I on this page. The Departments of the College which offer courses that may be used to satisfy each basic group are given in Table II which shows:

1. That all of the courses in Public Health, Bacteriology, Botany, Entomology, Physiology, Veterinary Science, and Zoology apply in the Biological Science group.


3. That although all courses in English and Speech, French, German, Latin, and Spanish apply toward the Language group, English 10, 11, and 12 must be taken to satisfy the language requirement.

4. That all the courses in Agricultural Economics, Business Administration, History, Marketing, Political Science, Economics, and Sociology apply in the Social Science group.

**Special and Elective groups:** The purpose of the Special group is to give the Dean the responsibility and the authority necessary to assure each graduate a well-balanced program of courses. The Dean may select additional work in one or more of the basic groups, in educational subjects, or in other work closely related or basic to the major and minor.

The purpose of the elective group is to permit the student some freedom in the selection of courses of interest which lie outside the major field of study.

**TABLE I. GROUP REQUIREMENTS FOR THE DIFFERENT BACHELORS' DEGREES**

<table>
<thead>
<tr>
<th>Degree</th>
<th>Biological Group Requirements</th>
<th>Additional Groups</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Basic Group Requirements</td>
<td></td>
</tr>
<tr>
<td>Agricultural</td>
<td>18 18 18 18 18 18 42</td>
<td></td>
</tr>
<tr>
<td>Arts and Sciences</td>
<td>18 18 18 18 18 42</td>
<td></td>
</tr>
<tr>
<td>Agricultural Engineering</td>
<td>/ The courses required for the engineering degrees are shown fully on page—.</td>
<td></td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>/ degrees are shown fully on page—.</td>
<td></td>
</tr>
<tr>
<td>Commerce and Business Admin.</td>
<td>12 18 18 18 18 48</td>
<td></td>
</tr>
<tr>
<td>Home Economics</td>
<td>18 18 18 18 36</td>
<td></td>
</tr>
<tr>
<td>Education</td>
<td>18 18 18 18 42</td>
<td></td>
</tr>
<tr>
<td>Mechanic Arts</td>
<td>9 18 12 9 18 66*</td>
<td></td>
</tr>
</tbody>
</table>

*Of these 66 credits, 30 must be earned in the technical courses in mechanic arts and approved by the Dean of Engineering.
TABLE II. TABULAR STATEMENT OF DEPARTMENTS WHOSE COURSES MAY BE USED TO SATISFY THE SEVERAL GROUPS.

<table>
<thead>
<tr>
<th>Biological Science</th>
<th>Public Health</th>
<th>Physiology</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bacteriology</td>
<td>Veterinary Science</td>
</tr>
<tr>
<td></td>
<td>Botany</td>
<td>Zoology</td>
</tr>
<tr>
<td></td>
<td>Entomology</td>
<td></td>
</tr>
<tr>
<td>Exact Science</td>
<td>Accounting (101, 102, 103, 107, 108)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Chemistry</td>
<td>Mathematics</td>
</tr>
<tr>
<td></td>
<td>Geology</td>
<td>Physics</td>
</tr>
<tr>
<td>Language</td>
<td>English and Speech (10, 11, and 12 must be)</td>
<td>taken to satisfy this group.</td>
</tr>
<tr>
<td></td>
<td>German</td>
<td></td>
</tr>
<tr>
<td></td>
<td>French</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Latin</td>
<td>Spanish</td>
</tr>
<tr>
<td>Social Science</td>
<td>Agricultural Economics</td>
<td>Marketing</td>
</tr>
<tr>
<td></td>
<td>Business Administration</td>
<td>Sociology</td>
</tr>
<tr>
<td></td>
<td>Political Science</td>
<td>History</td>
</tr>
<tr>
<td></td>
<td>Economics</td>
<td></td>
</tr>
<tr>
<td>Special</td>
<td>Courses to be designated by the Dean of the School in which the student is registered.</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>Courses to be selected by the Student.</td>
<td></td>
</tr>
</tbody>
</table>

MILITARY SCIENCE REGULATIONS

The Utah Agricultural College has been designated by law as an institution where units of the Reserve Officers’ Training Corps are maintained. As such, it has promised the Government to give certain military instruction of a definite kind and character.

The student, by registration at the Institution, obligates himself to conform to such requirements as are or may be prescribed by the College Council under the regulations of the Reserve Officers’ Training Corps. These requirements, at present, are as follows: Two years of military training are required of all able-bodied male students. By regulation of the College the course is required during the first and second years at the Institution.

In order to remain in and receive instruction at the College or to graduate finally from the College, the student must be in attendance at all military classes and do satisfactory work in them.

It shall be the duty of every student of whom military training is required to see that he is properly registered for the course and to report for instruction. Students who are required to take military training but fail to register or to report for classes will, with the ap-
proval of the President, be excluded from all classes in the College. The responsibility of complying with the regulations regarding military science rests entirely with the students.

Upon petition, the following classes of students may be excused from the requirements in military science:

a. Students who are physically disqualified may be excused from military science by the College Medical Examiner.

b. Any student entering as a junior or senior may be excused from military science if he has fulfilled the requirements in this subject laid down by the institution from which he comes.

c. Students over twenty-four years of age at the time of original entrance into the College may be excused from military science.

d. Married students may be excused from the requirements in military science.

e. Students who are not citizens of the United States and who do not intend to become citizens will not be permitted to take military training.

f. A student who, because of pecuniary circumstances necessitating outside work, should not be required to take military science during any particular quarter, may be excused during that quarter.

g. Students who have had previous military training may be excused from the requirements in military science on the basis of the table of equivalent service filed in the office of the Professor of Military Science and Tactics. Only that portion of a student's previous military training which has been completed prior to his matriculation at this College will be considered as a basis for exemption.

h. Vocational training and "short course" students may be excused from military training.

i. Students who are active in the Army, Navy, or Marine Corps of the United States, or who are commissioned officers of the National Guard or Naval Militia, or reserve officers of the military or naval forces of the United States, or members of the Naval Reserve will not be permitted to enroll in the Reserve Officers' Training Corps.

A student claiming exemption from military science for any of the reasons noted above will present a petition for such excuse to the appointed Committee on or before the beginning of the quarter in which he desires to be excused. All such petitions will be prepared on the prescribed form which may be obtained in the Registrar's Office or in the office of the Professor of Military Science and Tactics, and will be accompanied by letters, discharge certificates or other documentary evidence substantiating the claim.
Petitions filed after the expiration of two weeks following the date of the student's registration will not be received except for illness or physical disability occurring after such date.

Pending the action of his petition, the student will register for the course prescribed for his class and will enter upon the work of such course.

Any student who may be excused from attendance in military science for any valid reason must make up the deficiency in other departments of study.

Every student registered for military science is required to make a uniform deposit of $5.00. The refund of this sum, less the cost of any property lost or damaged, will be made upon the completion of the year or upon withdrawal from the course.

**GRADUATION WITH HONORS**

In order to stimulate individual work and to encourage superior students to strive toward their highest possible attainments the college affords opportunity for graduation with honors. Measurement of attainments of honors students is based largely on the student's ability to pursue individual work through a period of two years in preparation for a group of comprehensive examinations. The important elements of the plan are to leave the student sufficient opportunity to develop independence and initiative and yet to provide him with a plan of work, and enough individual instruction to prevent misdirected effort.

Any student of more than usual ability and scholarship who has been admitted to senior college standing may be advanced to candidacy for the bachelor's degree with honors under the following conditions:

1. Completion of 48 credit hours in the four basic groups, namely: biological science, exact science, social science and language, and not less than 9 credit hours in each of these groups, provided that a candidate in the School of Agricultural Engineering shall have 9 credit hours in each of the groups except biological science.
2. Showing of superiority in the proposed major field.
3. Grades as follows at the time of application for candidacy for graduation with honors:
   a. Not less than 50 per cent of the credit hours "A" grade.
   b. Not less than 85 per cent of the credit hours "A" and "B" grade.
c. No grade used for eligibility for honors work lower than "C."

4. Written approval by the major and minor departments.

5. Presentation to the College Council by the Graduation Committee together with a two-thirds favorable vote of the Council not earlier than the end of the sophomore year nor later than the beginning of the second quarter of the Junior Year. (For graduation with honors in the spring of 1928, students may be approved as late as the fall quarter of 1927-28.)

DEPARTMENTAL PLANS AND REQUIREMENTS FOR HONORS WORK

The honors student must satisfy a major department and two minor departments.

In addition to the requirements above specified for advancement to candidacy for graduation with honors the following requirements must be satisfied for graduation:

REQUIREMENTS FOR THE BACHELOR'S DEGREE WITH HONORS

In addition to the requirements above specified for advancement to candidacy for graduation with honors, the following requirements must be satisfied:

1. Full time work in residence during a period of not less than five quarters nor more than nine quarters after being advanced to candidacy for the honors degree. Three quarters residence must be immediately preceding the conferring of the degree.

2. The completion of 180 credit hours, of which not less than 75 hours must be honors work.

3. The candidate must be recommended for graduation with honors unanimously by the professors in the major and minor departments and must receive favorable vote of two-thirds of the members of the College Council.

GRADUATION AT THE CLOSE OF THE SUMMER QUARTER

Any student who can satisfy the requirements for graduation by the close of the Summer Quarter may be presented to the College Council in May. Such students are listed with the class of the follow-
ing year and receive their public graduation at the following Commencement. The graduation of such students, however, will be certified to by the proper authorities of the College as soon as their work is completed provided it is completed before September 15 of the year in which they are passed upon for graduation.

REQUIREMENTS FOR THE MASTER'S DEGREE

Registration of all graduate students shall be made by the chairman of the committee on graduate work.

The degree of Master of Science may be granted on the completion of the following requirements:

The candidate must have been in actual residence at the College at least three full quarters after receiving the standard Bachelor's degree (or after having met the requirements for this degree), and must obtain fifty-one (51) credits of which at least twenty (20) must be of graduate grade, in addition to the 180 College credits and 15 High School units, or their equivalent, required for the Bachelor's degree.

Summer Quarter students with the baccalaureate degree are allowed five years in which to complete their work and residence requirements for the Master's degree.

To be admitted to the candidacy for the Master's degree the student must have his course of study approved by November 1, or at least seven months preceding the date on which he expects to receive the degree, by the committee on graduate work, the professor in charge of his major subject and the dean of the school in which his major subject is taken.

A thesis covering the work done in the major department (from 9 to 21 credits) must be prepared by May 1, and must be accepted by the group which approved his candidacy. At least two copies of the thesis must be filed with the college librarian.

The candidate must successfully pass an oral examination which will be given under the direction of the committee on graduate work by the professor in charge of his major subject, the dean of the school in which his major work is taken and three professors to be selected by the committee on graduate work.
STUDENT EXPENSES

Students must pay the following fees upon registration:

UTAH STUDENTS

<table>
<thead>
<tr>
<th></th>
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<th>Winter and Spring Quarters</th>
<th>Winter Quarters Only</th>
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<td>Tuition</td>
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<td>18.00</td>
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<tr>
<td>Library fee</td>
<td>3.00</td>
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<tr>
<td>Gymnasium fee</td>
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<td>2.00</td>
<td>1.00</td>
<td>1.00</td>
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<tr>
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<td>12.00</td>
<td>10.00</td>
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<tr>
<td>Withdrawal deposit</td>
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STUDENTS FROM OTHER STATES

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<td>Library fee</td>
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<td>12.00</td>
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<tr>
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<td>$84.00</td>
<td>$71.00</td>
<td>$59.00</td>
<td>$56.00</td>
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</table>

All students registered for Military Science and Tactics are required to make a $5.00 deposit for uniform.

A fee of one dollar per day will be charged those who register late. In no case, however, will the fee for late registration exceed five dollars.

All students registering in the fall must pay fees for the entire year. If the student desires to discontinue, refund will be made on all fees except the registration and student body fees. By state law, the Institution may relieve worthy and deserving students from payment of the registration fee, provided that not more than ten percent of the total student body be relieved of the fee in any one year.

According to the constitution of the Student Body, every regular student must obtain at time of registration a Student Body card which will admit him to all the activities controlled by the Student Body organization; athletic events—football, baseball, basketball, tennis and track—dramatics and musical entertainments, socials, lectures, etc., and, in addition, give him a copy of the annual year book.
and subscription to the college paper. This system has been found to be a great saving to the students and a most excellent means of fostering proper interest in student activities.

Since all students are required to take Physical Education they must provide themselves with gymnasium suits and gymnasium shoes. The cost is about $6.00.

Each student in Foods and Dietetics courses and Household Administration 150 must provide herself with the following: two hair nets, one or two white petticoats, two washable white uniforms, two white work aprons. Each student in Home Nursing course must provide herself with the following: one or two white petticoats, two washable white uniforms. The uniforms required for the Home Nursing course, and the aprons and uniforms required for the Foods course and Household Administration 150, must be of the standard designs provided by the Textile and Clothing Department. Materials should be procured after consultation with the instructors in charge.

All graduates from the School of Home Economics who desire to qualify as teachers in home economics under the Smith-Hughes Act must spend the required period of residence in the Home Economics Cottage, as indicated in Household Administration 150. The expenses are $6.00 per week for board and room.

The fee charged for a diploma of graduation is $5.00.

Good board and room in a private home costs from $6.00 to $7.50 a week. By renting rooms and boarding themselves, students are able to reduce considerably the cost of room and board.

The College maintains a modern well equipped cafeteria, where students may eat at cost.

The following table furnishes an estimate of the actual yearly expenses of students attending the Utah Agricultural College:

<table>
<thead>
<tr>
<th></th>
<th>Low</th>
<th>Average</th>
<th>Liberal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition, books, fees, etc.</td>
<td>$94</td>
<td>$94</td>
<td>$94</td>
</tr>
<tr>
<td>Room and Board</td>
<td>200</td>
<td>250</td>
<td>300</td>
</tr>
<tr>
<td>Incidentals or Miscellaneous</td>
<td>75</td>
<td>100</td>
<td>150</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$369</strong></td>
<td><strong>$445</strong></td>
<td><strong>$544</strong></td>
</tr>
</tbody>
</table>

Students are held responsible for any injury done by them to the College property.

The Senior Loan Fund, a gift of the class of 1911, and added to by the class of 1922, has helped many students through school.
SELF HELP

A large portion of the students of the Utah Agricultural College earn part of their expenses while in residence. During the fall and spring particularly there is some demand for workers by farmers, fruit growers and owners of city property. The college itself gives employment to many students, and college officers are glad to aid students in finding work.

Young people who expect to earn their way through college should first of all by earnest labor and careful economy accumulate as large a college expense fund as possible. It is desirable, though not essential, that this sum be sufficient to cover the expense of the first year. Correspondence or conference with the College Secretary usually reveals some way to earn the additional amount needed. After one year in college, the earnings of the student in vacation and during the college year generally enable him to continue his course without interruption.

It is the policy of the college to encourage and aid in every possible way earnest, ambitious young men and women who want an education and an opportunity to help themselves.

SCHOLARSHIPS AND AWARDS

THE JOHANSEN SCHOLARSHIP FUND of $5,000, a gift of the late Mrs. Johana Johansen, provides three scholarships annually, worth in the aggregate from $300 to $350, for help of worthy students of Junior or Senior rank. Applications for this scholarship must be filed with the chairman of the committee on honors and awards before April 15 for the succeeding year.

The One Thousand Dollar Liberty Bond Endowment yields a loan fund of $40, which is to be loaned by the Director's Council to a student who has made formal application before April 12, and who has need of financial help and who has demonstrated a high degree of scholarship in the work of previous quarters.

The U. A. C. Faculty Women's League has a loan fund for the women students of the college. Loans may range from $50 to $200. Preference is given to senior women students. Loans are made at any time during the year when money is available.

The Citizenship Award, given by President Elmer G. Peterson, is awarded annually to the male student who shows evidence of being
able to repay, in greatest measure, to the Nation the investment which it has made in him.

The basis of the award is as follows:

(a) The potential vocational or professional efficiency of the student as shown by his scholarly attainment, his industry, and natural ability and talent, 50 points.

(b) His patriotism, honesty and good judgment as a student citizen, as an indication of his future attitude as a voter or public servant, combining a progressive spirit with a love of country and a concern for the safety and development of American institutions of liberty and justice. His qualities of social leadership, as shown in student affairs, based upon physical and moral cleanliness and strength, 50 points.

The R. O. T. C. Medal, a gift of the Institution, is awarded each year to the student in Military Science and Tactics who most nearly represents the ideal that the Reserve Officers' Training Corps is striving to develop, upon the following basis:

(a) Character, 20 points.
(b) Scholarship, 15 points.
(c) College Activity, 15 points.
(d) Leadership, 20 points.
(e) Aptitude for and interest in Military Science, 20 points.
(f) Physique and bearing, 10 points.

The Rhodes Scholarships. Special attention is called to the Rhodes Scholarships in Oxford University, England, to which one appointment from the State of Utah will be made for 1928. The scholarships are each of the value of approximately $1,500.00 a year, and are tenable for three years. Full information and application blanks may be secured at the President's office.

The National Transportation Institute. Prizes are awarded to the three students presenting the best papers on the subject of transportation. The prizes are fifty dollars, fifteen dollars and ten dollars. The winner of the first prize will be eligible to contest for a still larger prize in a district contest.

The Hendricks Medal, a gift of Mrs. Carrie M. Hendricks in memory of the late Professor George B. Hendricks, is awarded yearly to the student who delivers the best extemporaneous speech.

The Sons of the American Revolution award a medal annually for the best patriotic speech.

The Vernon Medal, a gift of Dr. Weston Vernon, is given each
year for the best short story written around western characters and with a western setting.

The Utah Agricultural College Science Medal, a gift of Professor William Peterson, is given each year to the student writing the best review of recent scientific research in either mathematics, physics, chemistry, geology, zoology, botany or astronomy.

The Titus Medals, given by Dr. E. G. Titus to the winners of the singles tennis tournament for men and women.

Scholarship A’s are given at the close of each year to the six highest ranking students.

Several further awards are given for athletic and other student body activities.

A list of the recipients of various honors will be found at the back of the catalog.

BUILDINGS

The College now has nearly thirty buildings, all modern, well lighted and heated and all carefully planned.

The Main Building is 360 feet long, 200 feet deep in the central part and four stories high. It contains the large auditorium, seating about 1,500, the administrative offices, the library and many class rooms and laboratories.

The Home Economics Building is one of the largest and best equipped structures devoted entirely to domestic science and arts in the inter-mountain region.

The Thomas Smart Gymnasium is one of the finest and most complete college gymnasiums in the Rocky Mountain region. It contains a main exercise hall, 114 by 70 feet, the equipment of which can be quickly put in place or hoisted out of the way to suit any need, and a smaller floor for women. Ten feet above the main floor is a running-track, a hand-ball court and a wrestling and boxing room. The large pool, shower and steam baths and dressing rooms with steel lockers are ideal.

The Experiment Station is a two-story brick structure 45 feet long and 35 feet wide, containing the offices of the station and extension staffs, and a dark room for photography.

The Mechanic Arts Building, a two-story brick structure, has a floor area of 40,000 square feet and contains the wood-working department, machine shops, forging rooms, foundry, carriage building rooms, mechanic arts museum, drafting rooms, blue-printing room, room for painting and staining and class rooms—all well equipped.
Widtsoe Hall, containing three stories, thoroughly modern in plan and equipment, is occupied by the Department of Chemistry, Physics and Bacteriology.

The Livestock Building of three stories is exceptionally well fitted with facilities for the study of dairying, hog, horse, poultry and sheep husbandry and range management.

The Agricultural Engineering Building, an excellently arranged three story brick structure, houses the Departments of Irrigation and Drainage, Surveying, Hydraulics, Mechanical Drawing, Architecture, Household Sanitation, Farm Mechanics, including Auto and Tractor work, and some related phases of the work of the institution.

The Plant Industry Building is a four story brick building, thoroughly modern in arrangement. It houses the departments of Agronomy, Botany, Plant Pathology and Horticulture.

The Barns contain the various breeds of cattle, horses, sheep and hogs most common in the western section.

The Horse Barn is the most modern structure of its kind that can be built.

The Stock Judging Pavilion makes it possible to do stock judging in all kinds of weather.

The Poultry Yards are equipped with various types of buildings to accommodate about one thousand fowls, a brooder house with a capacity of 2,500 chicks and a modern incubator cellar with standard incubators of several makes and designs. The laboratory is well supplied with different styles and sizes of incubators, brooders, food hoppers, etc., suited to use in study of the management of large and small flocks.

The Green Houses are prepared for laboratory instruction in the propagation of horticultural plants and in the practice of floriculture and vegetable gardening.

The Veterinary Hospital contains a well equipped dispensary, operating room and stalls for patients.

The Seed House is designed as a store house for the seeds of the Department of Agronomy.

A modern heating plant keeps the building comfortably warm during the winter months.

**EQUIPMENT**

The Bacteriological Laboratory is well equipped with modern apparatus. To encourage careful work, the students are provided with individual lockers.
The Chemical Laboratories are modern and thoroughly equipped. The Physical Laboratory Equipment is complete, consisting of all the necessary apparatus for class demonstrations. Gas, compressed air, continuous and alternating current electric power, etc., are available.

The Physiological Laboratory is supplied with an excellent collection of native animals, skeletons, both articulated and disarticulated, many enlarged models of organs, a papier Mache manikin and complete slides of all the tissues.

The Zoological and Entomological Laboratory is equipped with water and gas, improved instruments, embryological models, skeletons from the vertebrae groups, collections of mounted birds, mammals, reptiles, fishes and insects.

The Botanical and Plant Pathological Laboratory is well equipped for general work as well as for research. The department maintains a good working library in connection with the laboratory.

The Department of Agronomy is provided with a large collection of agricultural plants, seeds and soils, representing the main crops and types of soil of the inter-mountain region.

The College Farms are equipped with the best and latest implements and machinery for carrying on work scientifically. They are divided for illustrative and experimental purposes, into numerous plats on which many varieties of farm crops are grown and upon which important experiments are carried on.

The Soil Physics Laboratory has a good supply of apparatus for accurate and up-to-date work.

The Farm Crops Laboratory, equipped with gas, has a large supply of farm crops on hand and is well supplied with apparatus.

The Commercial Rooms, occupying the entire third floor of the front of the Main building, are specially designed and furnished for business. The room for typewriting contains a full complement of standard machines.

The College Museum contains many specimens illustrative of geology, mineralogy, paleontology and vertebrate and invertebrate zoology, including a large series of plants of the western mountain region and an extensive series of plants of the western highlands. An extensive collection of grains represents the produce of Utah and other states. Contributions of fossils, ores, animals, plants, relics or other material of value to the museum, are appreciated. All gifts are labeled and preserved and the names of the donors are recorded.
The Art Rooms, composed of six studios, are supplied with plain and adjustable tables, easels and model stands, individual lockers, cases for materials, casts from the old masters in sculpture, reproductions of great paintings, still-life models and draperies, as well as with a valuable collection of ceramics, textiles and books on art.

The Library occupies the entire front of the second floor of the Main building. It is the laboratory for every course given at the College and contains 35,920 books and a large number of pamphlets. The books are classified by the Dewey decimal system and there is a complete dictionary card catalog. The shelf list, also on cards, forms a classified catalog for official use.

The library is also a depository for United States documents and for the Carnegie Institute. The files of the United States Department of Agriculture and publications of the Experiment Stations are nearly complete; the bulletins are bound and made easy of access by the printed card catalogs. There are one hundred and forty periodicals on the subscription lists, besides about one hundred which are received as exchanges for publications of the college and of the Experiment Station. Practically all the newspapers of the State are on file in the Reading Room. The Reading Room is beautifully furnished in oak and contains many oil paintings and pieces of statuary.

CAMPUS AND FARMS

The land occupied by the College embraces about 142 acres. Of this, thirty-five acres constitute the campus, laid out with flower beds, broad stretches of lawn, tennis courts, wide drives and walks.

Immediately east of the Main building is the quadrangle of about ten acres. The Adams athletic field is one-fourth mile west of the campus. A large athletic stadium located just north of the campus now nearly complete, is the new home for U. A. C. athletic contests.

The farms comprise 97 acres, the orchards and the small fruit and vegetable gardens, 10 acres.

Other farms are maintained under the direction of the Experiment Station, in various parts of the State.

The equipment of the Branch Agricultural College is described in the circular of that institution.
THE STUDENT BODY ORGANIZATION

The Student Body Organization embraces all the students of the institution. Its prime object is to foster a proper spirit of college loyalty and to give the students practice in managing public affairs. It also secures dispatch and efficiency, as well as uniformity, in the administration of all matters pertaining to the entire student body and induces all students to participate in college activities. The organization provides each member with a maximum of proper athletic, theatrical and social recreation at a minimum expense. This society has control, under faculty direction, of the following student activities:

1. **Athletics**, including all inter-class and intercollegiate contests in football, baseball, basketball, track, tennis, swimming, and wrestling events. The Agricultural College is a member of the Rocky Mountain Conference, a fact which insures an interesting athletic program.

2. **Musicals**, including all public performances of the Band, the Orchestra and Musical clubs.

3. **Theatricals.** In the past, *A Midsummer Night's Dream*, *She Stoops to Conquer*, *Pygmalion*, *Milestones*, *The Admirable Crichton*, *What Every Woman Knows*, *Twelfth Night* and various other productions, have been presented.

4. ** Debating and Public Speaking.** Triangular debating arrangements have been made whereby, annually, the Agricultural College debates the University of Utah and the Brigham Young University on the same question. Interstate debates are also held. Those who make places on the teams not only win awards, but are admitted to membership in the Agora, an honorary debating fraternity. Debaters showing special excellence are admitted to membership in Tau Kappa Alpha, a national honorary debating fraternity, a chapter of which is established at the College. Interest in inter-class debating is keen.

The annual oratorical contests for the Hendricks medal and for that given by the Sons of the American Revolution maintain among the students an active interest in extemporaneous public speaking.

5. **Student Publications.** The students of the College, under the direction of the faculty of English, publish a weekly school paper, *Student Life*, and the College year book, named *The Buzzer*; the Scribblers’ Club publish *The Scribble*; the Agricultural Club, the Ag. Club Link. Interest in journalistic work in stimulated by the
presence on the campus of a chapter of the national honorary journalistic fraternity, Pi Delta Epsilon.

6. Lyceum Course. Each year the Student Body presents from six to eight numbers of national or local repute. These entertainments are free to members of the Student Body.

STUDENT CLUBS

Not affiliated with the Student Body organization, but standing largely for the interest of the various schools, are the following clubs:

The Agricultural Club, which aims to promote interest in scientific and practical agriculture. The club has effected similar organizations in the high schools of the State. Special lectures, often illustrated, are given at intervals throughout the season. The club conducts an annual tour, studying farm conditions in northern Utah.

The American Association of Engineers, a local chapter of the national organization made up of students and practicing engineers. Any student majoring in any branch of engineering is eligible for membership. The purpose of the organization is the advancement of the engineering profession and the promotion of the economic and social welfare of the engineer. Regular monthly luncheons are held at which men of repute are invited to speak on pertinent current problems.

The Home Economics Club, to which all students registered in the School of Home Economics are eligible. The object of the club is four-fold:

1. To stimulate interest in Home Economics;
2. To broaden and elevate each member's ideals for social, industrial and economic life, thereby helping her better to fit into the home and community;
3. To provide wholesome recreation;
4. To foster ties of friendship among the members.

The Commercial Club, working to promote the interests of the School of Commerce, to popularize the commercial courses and to consider matters of interest not encountered in routine work. The club maintains an annual lecture course, given by prominent men of the State, on topics of special interest to the business man. All commercial students are eligible to membership.

The Mechanic Arts Association, designed to promote the social and intellectual interests of its members. All the teachers and all the regularly enrolled students of mechanic arts are eligible to mem-
bership. Monthly meetings are held throughout the year at some of which lectures are given by specialists.

**Gamma Sigma Delta**, a chapter of the national honorary fraternity for students in agriculture. Members are chosen for scholarship from the upper one-fourth of the junior and senior classes in agriculture.

**Phi Kappa Phi**, a chapter of the national honorary scholarship fraternity.

**Tau Kappa Alpha**, a chapter of the national honorary debating fraternity open to both men and women.

**Alpha Kappa Psi**, a national fraternity, devoted to the interests of commerce and business.

**Phi Upsilon Omricon.** The Kappa chapter of this national professional and honorary fraternity is installed at the College. Its purpose is to stimulate interest in Home Economics.

**Scabbard and Blade**, a company of the national, honorary, military fraternity of the same name, organized to perpetuate American ideals and efficiency among young college men and open to cadet officers who have shown particular excellence in their R. O. T. C. work.

**Pi Delta Epsilon**, a chapter of the national honorary journalistic fraternity.

**The Agora**, a local organization open to men and women from the intercollegiate debating teams. Its purpose is to foster debating in the College and keep alive among the old debaters an interest in such contests. Students may become members of both Tau Kappa Alpha and the Agora.

**The Chemistry and Physics Club**, organized to promote interest in chemistry.

**The Be-No Club**, organized to foster scholarship, fellowship and loyalty.

**The Benedict's Club**, designed to promote the social welfare of married students.

**The Periwig Club**, composed of students prominent in dramatics. This club produces annually several plays.

**The Booklovers' Club**, organized for the study of subjects related to English literature, but not usually treated in the classroom.

**The Quill Club**, an organization of writers.

**The Cosmos Club**, organized for the study of present day problems; open only to men.
The Tennis Club, organized to promote interest in tennis and to develop players for intercollegiate matches.

The Empyrean Club, organized for the study of current problems; open only to women of Senior College standing.

Le Cercle Francais, maintained by students in French for practice in speaking the language.

The Cosmopolitan Club, composed of faculty members and students and organized for the purpose of furthering internationalism and world peace. To be eligible for membership, candidates must be of foreign birth, must have lived in a foreign country or show a keen interest in world problems.

Beaux Arts Guild, designed to encourage interest in the various phases of Art by lectures and informal social meetings.

Alpha Sigma Nu, a senior honorary society. Membership is maintained by election from the Junior class held each spring.

The Men's Rifle Club, organized to foster marksmanship among its members.

The Women's Rifle Club, composed of women interested in the use of firearms.

The Botany Club, composed of students especially interested in botany. Lectures are given by faculty members and initiation discussions by new members.

The Short Story Club, organized to promote interest in the short story.

The Girls' Athletic Club, composed of women students who are particularly interested in athletic contests, hiking, etc.

Various other clubs, as well as a number of fraternities and sororities are also to be found on the campus.
DEPARTMENTS OF INSTRUCTION

(Arranged alphabetically)

Agricultural Economics and Marketing
Agronomy
Animal Husbandry
  a. Poultry Husbandry
Art
Botany and Forestry
Business Administration and Accounting
  a. Accounting
  b. Advertising and Selling
  c. Business Administration
  d. Secretarial Work
Chemistry
Dairy Husbandry
Dairy Manufacturing
Economics and Sociology
Education
English and Speech
Engineering
  1. Civil Engineering
     a. Applied Mechanics and Design
     b. Highways
     c. Irrigation and Drainage
     d. Mechanical Drawing
     e. Surveying
  2. Agricultural Engineering
     a. Rural Architecture
     b. Farm Machinery and Farm Motors
  3. Mechanic Arts
     a. Auto Mechanics
     b. Auto Ignition
     c. Forging
     d. Machine Work
     e. Woodwork
Foods and Dietetics
Geology
History
Horticulture
Household Administration
Mathematics
Military Science and Tactics
Modern Languages and Latin
Music
Physical Education
  a. For Men
  b. For Women
Physics
Political Science
Public Health and Bacteriology
Psychology
Textiles and Clothing
Veterinary Science
Zoology and Entomology

RECITATION TABLE

The recitation hours are sixty minutes in duration and begin at 8:00 a.m. The following shows the entire schedule:

1st hour, 8:00-9:00 4th hour, 11:00-12:00 7th hour, 2:00-3:00
2nd hour, 9:00-10:00 5th hour, 12:00-1:00 8th hour, 3:00-4:00
3rd hour, 10:00-11:00 6th hour, 1:00-2:00 9th hour, 4:00-5:00
Courses of Instruction

AGRICULTURE

AGRONOMY AND SOILS

GEORGE STEWART, Professor; D. W. PITMAN, M. D. THOMAS*, Associate Professors; A. F. BRACKEN, Assistant Professor; D. C. TINGEY, Instructor; DAVID E. HEYWOOD, Research Assistant.

Note: Students who major in Agronomy are expected to take Courses 1, 2, or 3, 106, 108, 109, 111, 112, 113, 117, 104, or 110; and one of these three: 114, 116, 207. Irrigation and Agricultural Economics 102 are recommended in the minor; one of these may, if desired, be used in the major group, provided the grade obtained is "B" or better.

1. Cereal Crops—The history, cultivation, production and marketing of cereal crops; a basis for judging and grading plant products. Must be preceded or accompanied by Botany or Chemistry. Winter quarter. Four credits.
   Lec. M. W. F., 900, 201 Plant Ind., Lab. T., 2:00 to 5:00, 204 Plant Ind.
   *Bracken

2. Root Crops—Sugar-beets, potatoes, mangels, turnips, other root crops, and beans; cultural methods, market types, and commercial possibilities are studied in detail. Must be preceded or accompanied by Botany or Chemistry. Fall quarter. Four credits.
   Lec. M. W. F., 9:00, 201 Plant Ind., Lab. T., 2:00 to 5:00, 204 Plant Ind.
   *Bracken

3. Forage and Miscellaneous Crops—Alfalfa, clovers, grasses, and other forages; methods of handling hay; meadow and pasture management, and soiling crops are discussed. Must be preceded or accompanied by Botany or Chemistry. Spring quarter. Four credits.
   Lec. M. W. F., 9:00, 201 Plant Ind., Lab. T., 2:00 to 5:00, 204 Plant Ind.
   *Tingey

101. General Crops—Essentials in the production of principal field crops; small grains, corn, potatoes, sugar-beets, alfalfa and pastures. Designed for those students not majoring in Agronomy who wish minimum work in crops. Courses 1, 2 or 3 are offered. These recommended for Agronomy majors instead of course 101. Prerequisites, Chemistry and Botany. Spring quarter. Four or five credits.
   Lec. M. W. F., 9:00, Lab. T., 2:00 to 5:00, 204 Plant Ind.
   *Pitman

*Absent on Leave.
104. Weeds, Seeds and Grading—Common weeds of Utah and methods of eradicating them; the quality and care of seeds; market classes and grades of grain, seeds, hay and potatoes. Prerequisites, Botany, Agronomy 1 and 2 or 3 (or 101); some horticulture preferred. Fall quarter. Three credits.

Lec. Th., 1:00, Lab. W., 2:00 to 5:00, and one other at student's convenience, 204 Plant Ind.

105. Seed Analysis and Testing—Impurities of farm and garden seeds; methods of analysis and testing; the inspection and marketing of seeds. Prerequisites, Botany, Agronomy 1, 3, (or 101). Not given except on application of two or more students who have open, during the week, the same two laboratory periods, of three hours each. Any quarter. Two or more credits. Two or more laboratory periods a week.

Time to be arranged. 202 Plant Ind.

106. Soils—Review of the entire field of soils study; designed as a foundation course for all students of agriculture. Prerequisites, Chemistry 1, 2 (High school chemistry not adequate). Fall quarter. Four credits.

Lec. M. W. F., 10:00, 201 Plant Ind., Lab. Th., 2:00 to 5:00, 210 Plant Ind.

108. Management of Arid Soils—The composition, nature and management of soils of arid regions; special attention to water relations, alkali, rotations, and other problems in the management of arid soils. Prerequisites, Agronomy 106 and either Geology 102 or Bacteriology 1, preferably both. Winter quarter. Four credits.

Lec. M. W. F., 10:00, 201 Plant Ind., Lab. Th., 2:00 to 5:00, 201 Plant Ind.

109. Plant Breeding—Varieties of field crops; their selection and improvement; attention to the methods of plant breeding as practiced in America and Europe. Prerequisites, Genetics and Botany. Winter quarter. Four or more credits.

Lec. M. W. F., 11:00, 201 Plaut Ind., Lab. W., 2:00 to 5:00, 204 Plant Ind.

110. Soil Fertility—Principles of soil fertility; fertilizers and their most productive use; review of experimental work in America and Europe. Prerequisites, Chemistry 1, 2, and Agronomy 106. Spring quarter. Two credits.

Lec. M. W., 10:00, 201 Plant Ind.

111, 112, 113. Seminar—Current agronomic literature; agricultural problems; assigned topics. Required of all seniors and graduates in agronomy; open also to juniors. Fall, Winter and Spring quarters. One or two credits each quarter.

Friday, 2:10 to 3:30, 203 Plant Ind.

114. History of Agriculture—Development of agriculture, with
emphasis on social and scientific phases; the successive steps by which modern agriculture has attained its present status. Winter quarter. Two to five credits.

T. Th. S., 11:00, 201 Plant Ind.

116. Dry-Farming—Principles of dry-farming from practical and scientific standpoints; a survey of agricultural work in the Great Plains and the Mountain regions; an analysis of the possibilities in typical climatic areas and on important soil types. Selecting and organizing a dry-farm unit. Graduate students may obtain additional credit for extra work. Winter quarter. Three lectures. Two to four credits.

T. Th. S., 11:00, 204 Plant Ind.

Bracken

117. Geography of Agriculture—Relation of geography to present agricultural development; where plant and animal products are produced; why only in the present regions; a survey of the United States with respect to possible new agricultural development; effect of the relative position of the large markets to agriculture, especially in Utah. Winter quarter. Two to five credits.

T. Th. S., 10:00, 201 Plant Ind.

Stewart

207. Comparative Soils—Soils of Utah; their origin, composition and agricultural value; soil provinces of the United States, especially those of the arid regions; the soil survey. Prerequisites, Agronomy 106, 108 and Geology 102, 103, 104. Spring quarter. Two or more credits in proportion to work done.

Lec. W., 10:00, 201 Plant Ind., Lab. Th., 2:00 to 5:00, 210 Plant Ind.

Pittman

208. Management of Arid Soils—Special problems in the management of arid soils. Original papers are considered in addition to regular lectures and discussions. Winter quarter. Three to six credits.

Lec. M. W. F., 10:00, 201 Plant Ind., Lab. T. Th., 2:00 to 5:00, 201 Plant Ind.

Pittman


Lec. M. W. F., 11:00, 201 Plant Ind., Lab. W., 2:00 to 5:00, 204 Plant Ind.

Stewart and Tinge

211, 212, 213. Graduate Seminar—Current scientific papers and topics in Agronomy. Fall, Winter, or Spring quarter. One to three credits.

Friday, 2:10 to 3:30, 203 Plant Ind.

Staff

214. History of Agriculture—Development of scientific agriculture with emphasis on recent period. Original papers and lecture material. Winter quarter. Two to five credits.

T. Th. S., 11:00, 204 Plant Ind.

Bracken

215. Plant Production—Recent experimental information on plant
production and soil management; analysis of research methods; classification of important varieties of field crops, review of the scientific literature. Prerequisites, at least one course in botany, agronomy, and bacteriology or geology. Open to approved senior college students. Spring quarter. Two to five credits.

**T. Th., 11:00, 201 Plant Ind.**

Stewart

217. **Geography of Agriculture**—Relation of geography to production and to development of agriculture. Winter quarter. Two to five credits.

**T. Th. S., 10:00, 201 Plant Ind.**

Stewart

218. **Special Soil Problems or Advanced Laboratory**—Students desiring to do advance laboratory work or to make a special study of any particular soil problem will make a complete study of available literature on this problem under supervision of the instructor and write a thesis. One to five credits. Prerequisites, Agronomy 106 and either General Bacteriology or General Geology. Any quarter.

219. **Physical Chemistry of the Soil**—This course and the one following are designed to develop the science of edaphology and are intended primarily for students expecting to specialize in soils. Theoretical subjects of soils will be treated with particular reference to the physical and chemical nature of the mineral and organic particles, and their relation to the phenomena of water-holding power, supply of plant nutrients, soil alkali, and soil structure. The colloidal theory of soils will be emphasized. Prerequisites, General and Organic Chemistry. Seniors admitted on approval. Winter quarter. Two credits.

**Lec. T. Th., 8:00, 201 Plant Ind.**

Thomas

220. **Dynamic Soil Processes**—The soil will be treated as a natural body developed through the operation of a definite moisture-temperature history. The soil profile, soil horizon, soil morphology and soil colloids will be considered as indices to the age and properties of the soil. The zonal distribution of soils will be emphasized. Spring quarter. Two credits. Seniors admitted on approval.

**Lec. T. Th., 8:00, 201 Plant Ind.**

Jennings

230. **Research and Thesis**—Organizing and prosecuting a thesis, or a research problem without thesis. Any quarter. Two or more credits each quarter.

Crops and Plant Breeding—

Soils—

Stewart, Bracken, Tingey

Pittman, Thomas

*Students who are interested in technical study may be assigned to Experiment Station laboratories where they will be under the direction of the man in charge.*
The Animal Industry Department includes the courses of instruction in the closely related special departments of Animal Husbandry, Dairy Husbandry, Dairy Manufacturing, Poultry Husbandry, and Veterinary Science.

ANIMAL HUSBANDRY

KENNETH C. IKELER, GEORGE B. CAINE, Professors; A. C. ESPLIN, HARRY H. SMITH, Assistant Professors.

The Department of Animal Husbandry offers instruction in the Selection, Breeding, Feeding and Management of Cattle, Horses, Sheep and Swine.

The following courses are required of students who major in animal Husbandry: 1, 2, 11, 103, 104, 105, and Animal Husbandry Seminar. Courses in Dairy Husbandry, Poultry Husbandry and Veterinary Science may be used to strong advantage in the major. Agronomy, Agricultural Economics and Marketing, Bacteriology, Botany, Entomology, Farm Mechanics, Geology, Horticulture, Irrigation, Organic Chemistry and Accounting are among the supporting courses most strongly recommended for graduation in Animal Husbandry.

1. Market Types of Live Stock—The score card and comparative judging of the market grades of commercial cattle, horses, swine and sheep. Five credits.

Sec. 1, Fall, Lec. M. W. F., 10:00, 208 Livestock Bldg. Lec. and Lab., T. Th., 2:00 to 4:00, Judging Pav

Sec. 2, Fall, Lec. T. Th. S., 10:00, 208 Livestock Bldg. Lec. and Lab., W. F., 2:00 to 4:00, Judging Pav.

Sec. 3, Winter, Lec. M. W. F., 10:00, 207 Livestock Bldg. Lec. and Lab., Lab. W. F., 2:00 to 4:00, Judg. Pav.

2. Breed Types of Live Stock—The origin, history, characteristics and selection of the breeds of horses, cattle, sheep and swine. Winter quarter. Five credits.

Lec. Daily except Sat., 10:00, 208 Livestock

6. Beef Cattle Production—The selection, feeding and marketing of range and feeder cattle and the management of the breeding herd of beef cattle. This course includes a trip to the Ogden and Salt Lake Stock Yards for study purposes. Fall quarter. Three credits.

Lec. T. Th. S., 9:00, 207 Livestock.


T. Th. S., 9:00, 207 Livestock.
8. **Swine Management**—The management of the breeding herd of hogs, feeding for market, and the fitting for show. The relation of the industry to dairy cattle farming. Winter quarter. Three credits.
   
   *T. Th. S., 9:00, 207 Livestock*  
   
   **Smith**

9. **Sheep Husbandry**—The management of sheep on the range and farm, the feeding for market, fitting for show and work in the grading and sorting of wool. Winter quarter. Three credits.
   
   *T. Th. S., 9:00, 208 Livestock*  
   
   **Esplin**

   
   *Lec. T. Th., 11:00, Lec. and Lab. T. or Th., 2:00 to 4:00, 309 Livestock*  
   
   **Esplin**

11. **Farm Meats and Meat Products**—The slaughtering of farm animals and the cutting and curing of meats on the farm. Trips will be taken to local meat shops and to the Ogden and Salt Lake Packing Houses. The students will evaluate the animals on foot and measure their judgment in the dressing per cent and quality of the product in the carcass. Winter quarter. Three credits.
   
   *Lec. and Lab. T. Th., 2:00 to 5:00, Judging Pav.*  
   
   **Smith**

101. **Livestock Management**—Instruction and practice in the feeding and fitting of horses, cattle, sheep and hogs for show or sale. A show of college livestock and an auction sale will be a part of this course. Winter quarter. Three credits.
   
   *Lec. and Lab. M. W., 2:00 to 5:00, Judging Pav.*  
   
   **Caine and Smith**

102. **Practical Livestock Feeding**—(Open to students not majoring in Animal Husbandry.) Classification of feeds, and compounding of rations for horses, cattle, sheep and swine. Prerequisites, Agronomy 1 and 3, or 101. Fall quarter. Five credits.
   
   *Daily except Sat., 8:00, 207 Livestock.*  
   
   **Ikeler**

103. **Feeds and Feeding**—The principles of feeding and how animals digest and utilize feed. The balancing of rations and the feeding of horses, cattle, sheep and hogs for economical production. Winter quarter. Five credits.
   
   *Daily except Sat., 8:00, 207 Livestock.*  
   
   **Smith**

   
   *Daily except Sat., 8:00, 207 Livestock.*  
   
   **Ikeler**
105. Livestock breeding—The principles and practices of livestock improvement. A study of heredity, variation, selection, breed analysis, and herd synthesis, Inbreeding, outcrossing, and cross breeding. Prerequisites, Zoology 111, (Genetics.) Spring quarter. Five credits.

Daily except Sat., 9:00, 207 Livestock.

Ike ler


Lec. M., 8:00, 207 Livestock. Lab. at convenience of students.

Smith

107. Advanced Stock Judging—The comparative judging of breeding and market horses, cattle, sheep, and swine, to prepare students for officiating at livestock shows. Herds away from the college will also be studied for the purpose of selecting a livestock judging team. Fall and Winter quarters. Three credits.

Fall, Lec. and Lab. M. W., 2:00 to 5:00, Judging Pav.

Winter, Lec. and Lab., M. W., 2:00 to 5:00, Judging Pav.

Caine

109. Wool Grading—Practice in scouring and grading wool, Caliper and microscopic measurement of wool fibers. Chemical and physical study of wool. Readings assigned. Prerequisites, Chemistry 1, 2, or 3, 4, 5. Winter quarter. Three credits.

Lec. M. W., 11:00, Lec. and Lab., M. or W., 2:00 to 4:00, 309 Livestock.

Esplin

110. Selection of Meats for the Household—A study of the principles and practice in the selection of quality meats for the table. This course is open for women students. Winter quarter. One credit.

T., 9:00 to 10:00, 207 Livestock.

Smith

120, 121, 122. Animal Husbandry Seminar—Reports and discussion of current literature and research in Animal Husbandry, by students and faculty members. Fall, Winter, and Spring quarters. One credit each quarter.

M., 2:00, 207 Livestock.

Caine and Smith

200. Graduate Research—Students working toward a graduate degree in Animal Husbandry are required to conduct research in some branch of the subject.

Time and credit by special arrangement.

An. Hus. Staff

205. Animal Production—This is a survey of the research conducted in the breeding and feeding of livestock. Prerequisites, Animal Husbandry 104 and 106. Spring quarter. Three credits.

M. W. F., 11:00, 207 Livestock.

Ike ler and Smith

210 Graduate Thesis—The outlining, prosecuting and summarizing of Animal Husbandry research data for a thesis. Two to five credits each quarter.

An. Hus. Staff
SUGGESTED COURSE FOR STUDENTS MAJORING IN
ANIMAL HUSBANDRY

FRESHMAN YEAR

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<td>Botany 21-22-23</td>
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SOPHOMORE YEAR

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<td>Education and Psychology</td>
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<td>Animal Husb. 107, Dairy Husb. 109 Animal Husb. 105</td>
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<td>Agronomy 106-105-101</td>
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DAIRY HUSBANDRY

GEORGE B. CAIN, Professor.

Students majoring in Dairy Husbandry must complete the following major courses for graduation—Dairy Husbandry 1, Animal Husbandry 1, 103, 104, 105, 107, as well as all courses listed in the Department of Dairy Husbandry. Agronomy 109 can replace a major course. Courses in Chemistry, Bacteriology, Botany, Crops, Accounting, Advertising, English, and Mechanics should be followed carefully to fill other groups.

12. Breeds of Dairy Cattle—Study of history and development of all breeds of dairy cattle. Special emphasis on the various families
within the breeds. Requirements for official testing. Pedigree and Herd Book study. Winter quarter. Four credits.  
_Lec. T. Th. S., 9:00, Lab. Th., 2:00 to 5:00, 208 An. Hus._  

_Lec. M. W. F., 11:00, 208 An. Hus._  

_Lec. M. W. F., 11:00, Lab. Th., 2:00 to 5:00, 208 An. Hus._  

_Lab. W. F., 2:00 to 5:00._  

115. **Seminar**—Discussion and reports of current literature. _Time and credit to be arranged._  

216. **Research**—Special problems in connection with dairy production. Breeding or Feeding of dairy cattle. For seniors and graduate students.  
Credit will be granted according to work done. _Time and credit to be arranged._  

**DAIRY MANUFACTURING**  

**GUSTAVE WILSTER, Professor.**  

Students majoring in Dairy Manufacturing must complete the following courses: Dairy 1, 2, 3, 4, 5, 6, 7, 101, 102, and 105. In addition at least 8 credits must be obtained in Dairy 6. Students intending to major in Dairy Manufacturing should present an approved plan of study to the Dean of the School of Agriculture not later than the beginning of the Junior year. Students are advised to select a minor course of study in one of the following subjects: Animal Husbandry, Dairy Husbandry, Chemistry, Bacteriology, Engineering, or Commerce. Students are strongly recommended to spend at least six months in a dairy manufacturing establishment before graduation.  

1. **Elements of Dairying**—History and present status of the dairy industry. Secretion, composition, testing, and sanitary handling of milk. Separation of milk. Farm and factory manufacture of butter, ice cream, and cheese. Students should provide themselves
with a white linen or rubber apron, and waterproof footwear. Fall and Winter quarters. Four credits each quarter.

2. City Milk Supply—Modern methods of producing, marketing, and processing sanitary milk. Separation of milk, standardizing and processing market cream. Fall quarter. Two credits.

3. Dairy Machinery—A study of the most common machines used in dairy manufacturing plants. Fall quarter. Two credits.

4. Manufacture of Ice Cream and Ices—Purchase of raw materials. Standardizing and processing. Standard commercial ice creams and ices will chiefly be considered. Spring quarter. Two credits.


6. Dairy Manufacturing Laboratory—Receiving and processing milk, manufacture of butter, cheese, and ice cream. Keeping records, operating refrigerating machinery, preparing products for market, retailing. Students should provide themselves with white suits and waterproof footwear. All quarters.

104. Special Problems—A course for students wishing to study certain phases of dairy manufacturing. Assigned readings and laboratory work in the processing of milk and the manufacturing of dairy products. Any quarter.

*Hours and credit to be arranged.*


*Lec. M. W. F. S., 8:00.*

201. Research—Research in the manufacture of dairy products.

*Credit to be arranged.*

**POULTRY HUSBANDRY**

**BYRON ALDER**, Professor, **WILLIAM H. WARNER**, Assistant Professor.

1. General Poultry—A study of breeds, judging, breeding, incubation, brooding, housing, feeding and marketing. Designed to meet the needs of students wishing a general knowledge of the poultry industry and the problems of production, and a foundation upon which other courses are built. Fall, Winter, or Spring quarter. Four credits.

*Lec. M. W. F., 11:00, Lab. M. 2:00 to 5:00, 205 Livestock.*

2. General Poultry—Same as Poultry 1, except that no laboratory is given. Fall, Winter or Spring quarter. Three credits.

*M. W. F., 11:00, 205 Livestock.*

3. General Poultry—The course is planned to meet the needs of Home Economics students. Not given unless six students apply. Spring quarter. Two credits.

*T. Th., 10:00, 205 Livestock.*

4. Incubation and Brooding—Practical and experimental work; the factors which influence the hatching quality of eggs and the raising of chicks. Prerequisites, Poultry 1. Spring quarter. Two credits.

*M. W., 9:00, 205 Livestock.*

5. Turkeys, Ducks and Geese—A study of the breeds, breeding, feeding, marketing, etc. Winter quarter. Two credits.

*T. Th., 10:00, 205 Livestock.*

105. Poultry Management—The housing, care, feeding and management of different breeds under western conditions. Prerequisite, Poultry 1. Winter quarter. Three credits. (Not given 1927-28.)

106. Breeds and Breeding—The origin and development of the
breeds and varieties of poultry; practice in judging; a review of the literature on breeding for utility and exhibition. Prerequisite, Poultry 1. Winter quarter. Three credits.  
M. W. F., 9:00, 205 Livestock.  

107. **Poultry Feeds and Feeding**—A study of nutrition problems; the feeds and methods of feeding. Prerequisite, Poultry 1 or 2. Winter quarter. Three credits.  
M. W. F., 10:00, 205 Livestock.  

125. **Research**—Research work in special problems. Prerequisites, Poultry 1 and 4.  
*Time and credit to be arranged.*  

126. **Seminar**—Current poultry literature studied; assigned problems and special topics. Winter quarter. One credit.  
T., 1:00, 205 Livestock.  

127. **Poultry Practice**—Special practice at the poultry yards.  
*Time and credit to be arranged.*  

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**VETERINARY SCIENCE**  
H. J. FREDERICK, Professor.  

10. **Veterinary Elements**—Introduction to anatomy and physiology and the common ailments of domestic animals; the most prevalent diseases, their distribution, causes, symptoms, course, diagnosis and treatment; observation and practice in the free weekly clinics. Fall or Winter quarter. Four credits.  
**Fall, Lec. T. Th. S., 8:00, Clinic M., 2:00 to 5:00, 203 Livestock.**  
**Winter, Lec. M. W. F., 10:00, Clinic M., 2:00 to 5:00, 203 Livestock.**  
Frederick.  

15. **Indications of Disease in Animals**—General appearance, nursing, restraint, conformation and soundness, and post-mortem demonstrations. Winter quarter. Three credits.  
Lec. T. Th. S., 9:00.  
Frederick.  

20, 21, 22. **Comparative Anatomy**—Especially for students in agriculture and animal husbandry; also students wishing to follow veterinary science. This course is supplemented with practical work in discussion, and illustrated by skeletons and models. Fall, Winter, and Spring quarter. Three credits each quarter. Given if ten students apply. (Not given 1927-28).  

40, 41, 42. **Physiology**—The vital functions of the different species of domestic animals and those of the human body are compared; the physical and chemical laws as related to physiology; the general properties of animal cells, their origin, development, and growth, special physiology of the various organs and tissues of the animal body.
Given if ten students register. Fall, Winter and Spring quarters. Three credits each quarter. Any or all quarters may be taken.

M. W. F., 9:00., 209 Livestock. Frederick

50, 51, 52. Clinics—Free clinics at the hospital in which students of veterinary science must assist. The numerous cases represent all diseases common to this locality and furnish the clinic with abundant material for observation and practice. Hours and credits to be arranged. Fall, Winter and Spring quarters.

Clinic M., 2:00 to 5:00, Veterinary Hospital. Frederick

60. Principles of Horse Shoeing—The anatomy and physiology of the horse's foot; the form of the foot and the direction of the limb; variations in the flight of the foot, styles of going, shoeing of normal and irregular feet; winter shoeing; correction of defects in gait and methods of shoeing hoofs defective in form or diseased. Winter quarter; repeated Spring quarter. Three credits.

T. Th. S., 9:00, 203 Livestock. Frederick


T. Th. S., 11:00. Frederick

107. Hygiene and Infectious Diseases—A discussion of water and food supply disinfection, care and management of animals and feeding of sick animals. The common infectious diseases prevalent here. Methods which should be adopted in their control and eradication. Tests applied for diagnosis, vaccination and serum treatment of animals. Winter or Spring quarter. Four credits. Room 203, Livestock.

Sec. 1, Winter, T. Th. S., 8:00, Lab. M., 2:00 to 5:00.
Sec. 2, Spring, M. W. F., 10:00, Lab. M., 2:00 to 5:00. Frederick

118, 119. Anatomy and Physiology—A study of the form, structure, and functions of the animal body. Attention is given to all domestic animals and students are required to locate and point out the parts related to the form, movement and utility of the animal. Fall and Winter quarters. Three credits each quarter.

Lec. T. S., 10:00, Lab. M., 2:00 to 5:00, 203 Livestock. Frederick

120. Sanitary Inspection—Inspection of slaughter houses, packing houses, butcher shops, etc., and means of detection of communicable diseases and spoilage in meat products. Prerequisite, Bacteriology 2. One quarter. Three credits.

(Not given 1927-28).

130, 131. Obstetrics—Obstetrical anatomy, reproduction, hygiene of pregnant animals. Obstetric operations, accidents of parturition and diseases of the new-born. The college herd and the surrounding stock breeding community give ample opportunity for practical work. Winter and Spring quarters. Two credits each quarter.

T. S., 11:00, 203 Livestock. Frederick
AGRICULTURAL COLLEGE OF UTAH

BOTANY

B. L. RICHARDS, Professor; F. B. WANN, Associate Professor; R. J. BECRAFT, Assistant Professor; H. L. BLOOD, Instructor.

Botany 21, 22, 23, 101, 120, 121, 130, 131, 240 or equivalent required for students majoring in Botany.

1. General Botany—A brief study of the nature and development of plants; plant parts and their functions; the food of plants; the relation of plants to human needs. Five credits each quarter.

Sec. 1, Fall, Lec. M. W. F., 9:00, Lab. T., Demonstration and field trips Th., 2-5, 105, 102, Plant Ind. Blood

Sec. 2, Spring, Lec. M. W. F., 9:00, Lab. Demonstration and field trips, W., 2-5.

Sec. 3, Spring, Lec. T. Th. S., 9:00, Labs. as in Section 2, 105, 102 Plant Ind. Richards and Blood

21, 22, 23. Agricultural Botany—A general course dealing with the various phases of physiology, anatomy, morphology and distribution of plants. Designed especially for students in agriculture. Required for a major or minor in Botany. Fall, Winter and Spring quarters. Five credits each quarter.

Lec. Sec. 1, M. W. F., 8:00; Sec. 2, Lec. T. Th. S., 8:00. Labs. for both sections, M. and Th. or W. and F., 2:00 to 5:00. 101 Plant Ind. Wann

Students may register for Botany 22 and 23 without Botany 21, only by permission.

101. Systematic Botany—Fundamentals of plant classification, with emphasis on flowering plants, especially economic groups. Individual practice with botanical keys. Prerequisite, Botany 1 or 21, 22, 23. Spring quarter. Three credits.

Lec. W. F., 10:00, Lab. T., 2:00 to 5:00, 101 and 103 Plant Ind. Becraft

130, 131. Plant Pathology—Fundamental principles underlying diseases in plants. Types of diseases are so studied as to give the student a comprehensive view of the subject of plant pathology. Field and orchard crops diseases will receive particular attention, during the Winter quarter, with laboratory so arranged as to permit students to select such diseases as will best support their major interests. Prerequisites: Botany 1 or 21, 22, 23. Fall and Winter quarters. Four credits each quarter.

Lec. T. Th., 11:00, Lab. M. F., 2:00 to 5:00, 101 and 110 Plant Ind. Richards

135. Mycology—Morphology and the taxonomic relations of fungi with emphasis on economic forms. Prerequisites: Botany 1 or 21, 22 and 23. Winter quarter. Four credits.

Time to be arranged. Richards
RANGE AND FORESTRY

Botany 101, 120, 121, 126, 71, 80, 176, 181, are recommended for students with major interest in Range. Courses 71, 80, 172, 176, 181 will not be accepted for filling the group requirement in Biological Science.

*Lec. T. Th. S., 10:00, Lab. Th., 101 Plant Ind.*  
*Becraft*

80. **Forestry**—A brief survey of forestry practice, regions, tree species, management, protection, local problems. Winter quarter. Four credits. Three lectures. One laboratory.  
*Lec. T. Th. S., 10:00, Lab. Th., 101 Plant Ind.*  
*Becraft*


176. **Advanced Range**—Forage plants, reconnaissance, grazing, working plans, research methods. Prerequisites: Botany 71 and 101. Winter quarter. Four credits. Three lectures. One laboratory.  
*M. W. F., 10:00, Lab. F. 101 Plant Ind.*  
*Becraft*

181. **Silviculture**—Forest influences, distribution, regeneration, care, improvement. Winter quarter. Three credits. Three lectures.  
*M. W. F., 11:00, 101 Plant Ind.*  
*Becraft*

221. **Photographic Technic**—Fundamental principles of photography as applied to advanced work in biology and plant pathology. Special attention is given to micro-photography and lanternslide production. One lecture and two laboratory periods. Winter quarter. Three credits.  
*Time to be arranged.*  
*Richards*

240. 241, 242. **Seminar**—Fall, Winter and Spring quarters. One or two credits each quarter.  
*Time to be arranged, 101 Plant Ind.*  
*Richards, Wann, Becraft, Blood*

250. **Research**—Open to all qualified Senior college students in Plant Physiology, Plant Pathology, and Range Management.  
*Richards, Wann and Becraft*
HORTICULTURE

F. M. COE, A. L. WILSON, Assistant Professors; EMIL HANSEN, Instructor.

The State of Utah and the intermountain region offer excellent commercial opportunities to men with fundamental and practical horticultural training. A wide variety of fruit and truck crops for cannery and market are profitably grown in this district, and many of these offer excellent possibilities for the college trained man who plans to farm. Opportunities are also open in high school and college teaching, in experiment station and extension work, and in the Government service, for men with thorough training in Horticulture.

The Department of Horticulture offers courses for major or minor credit in Pomology (fruit growing), Olericulture (vegetable gardening), and Landscape Gardening. Emphasis is placed on the practical art, as well as the fundamental science, of Horticulture. Work in laboratories, greenhouses, gardens, and orchards is used to supplant the lectures and recitations, and field trips are made to commercial orchards, small fruit plantations, truck farms, parks, and estates to study practical Horticulture at first hand.

Students planning a major or a minor in Horticulture should, in addition to the Junior College courses in this department, secure a thorough grounding in Chemistry (including Organic), Botany and Plant Pathology, Entomology, and Soil Science in preparation for advanced work in Horticulture. Courses in Agronomy, Animal Husbandry, Dairy and Poultry Husbandry, Agricultural Economics and Marketing, Irrigation and Drainage, and Farm Mechanics are strongly urged to accompany course work in Horticulture. Students interested in major or minor work in Pomology, Vegetable Gardening and Landscape Gardening are strongly urged to confer with the Professor in charge in arranging their courses of study.

Students majoring in this department are required to complete courses 1, 4, 101, 102, 103, 151, 152, 153 and 154. Students desiring to specialize in Vegetable Gardening are not required to take courses 151 and 152. Prerequisites to advanced courses may be waived in special cases by the Instructor.

COURSES

1. **Fruit Growing**—General principles and practices involved in successful location, selection of varieties, propagation, planting, and management of home and commercial orchards with special reference to the intermountain region. Horticultural resources and opportunities in Utah. This course is designed to give students elementary training in practical fruit growing; to survey the field of Horticulture as a vocation; and to serve as an introduction to advanced courses in Pomology. Three credits.
   
   **Sec. 1, Fall, M. F., 11:00, Lab. M., 2-5.**  
   **Sec. 2, Spring, M. F., 11:00, Lab. 2-5, Plant Ind.**  

2. **Landscape Gardening and Floriculture**—Elementary theory and
practice of beautifying home grounds in the city and on the farm. Layout and design of various classes of properties; trees, shrubs, vines, perennial and annual flowers used in ornamental gardening. Problems in improvement of home grounds, rural and urban; private estates and small parks. Three credits.

(Not given 1927-28).


   T. Th. S., 11:00, Plant Ind.  

   Wilson

5. Bush, Cane, and Vine Fruits—Commercial and home culture of raspberries, blackberries, currants, gooseberries, strawberries, and grapes. Soils and sites for small fruit plantations; varieties, propagation, planting, training, pruning, culture, harvesting, and marketing. Practical laboratory work in greenhouse, nursery and field; trips to vineyards, and berry farms.

101. Orchard Management—Fundamental principles and practices in the production of orchard crops. Outlook for fruit growing in the commercial fruit regions of the United States. Propagation and fruit tree nursery practices; planting, variety selection, cultivation, irrigation, fertilization, cover crops and thinning of apples, peaches, cherries, pears, and plums. The underlying principles of plant science governing management practices are emphasized. Laboratory and problem work on orchard planning, tree planting, etc. Field trips to study management problems in commercial orchards are made. Prerequisite Hort. 1. Fall quarter. Three credits.

   M. F., 1:00, Lab. Three hours, Plant Ind.  

   Coe

102. Pruning—A study of the underlying processes of nutrition, growth, and reproduction governing the response of fruit trees and plants to pruning. Practical pruning and training of tree fruits, grapes, bush and cane fruits. Pruning tools, wound protection, top-working, orchard renovation and tree surgery. Prerequisite Hort. 1 or equivalent; Chem. 1 and 2; Botany 21, 22, 23. Winter quarter. Three credits.

   Loc. M. F., 1:00, Lab. to be arranged. Plant Ind.  

   Coe

103. Spraying—Fungicides and insecticides used in the control of fruit and vegetable insects and diseases; their preparation, properties and use in spraying; spray machinery and equipment; dusts and dusting; spray schedules; economics of spraying; fumigation; rodent control. Practical laboratory and field work in the preparation, mixing and application of spray materials. Problems in practical spray management. Prerequisite: Hort 1; Chem. 1, 2; Botany 130 (Plant Pathology); and Zool. (14 Ec. Entomology). Winter quarter. Three credits

   Lecture, 2 hours, Lab., 3 hours, arranged. Plant Ind.  

   Coe

104. Vegetable Production—An advanced course in vegetable growing. Winter quarter. Three credits.

   T. Th. S., 11:00, Plant Ind.  

   Wilson
151. **Systematic Pomology**—Nomenclature and variety descriptions of fruits; their classification, identification, and adaptation; critical study of many varieties of fruits; the more important fruit groups and their inter-relationships. Breeding and improvement of fruit plants. Practical work in variety identification, fruit exhibition and judging. Assigned readings and preparation of papers on fruit varieties and adaptations. Winter quarter. Five credits.

(Not given 1927-28).

152. **Commercial Pomology**—Problems dealing with the handling and marketing of fruit, including picking, grading, packing, transportation, storage, distribution and sale; study of buildings and equipment for packing and storing fruit; roadside and local marketing. Prerequisite: Hort. 1. Fall quarter. Five credits.

(Not given 1927-28).

134, 154. **Seminar**—Round table discussion of advanced horticultural problems for senior students in Horticulture. Preparation and presentation of papers on subjects selected by the students. Reviews of recent experiment station and government publications and periodicals. Winter and Spring quarters. One credit each quarter.

(Not given 1927-28).

155. **Special Problems**—Study of advanced problems in Pomology, Landscape Gardening, or Vegetable Gardening for qualified senior or graduate students. Problem or subject selected by student. Assigned readings and research work in library, laboratory, greenhouse or field, presented as thesis. Registration by permission only. Any quarter. Two to five hours credit.

Consultation by special arrangement.

201, 202, 203, 204a, 204b. **Research**—Original research on horticultural problems for graduate students qualified to do investigational work in Horticulture, results to be presented as graduate theses for major or minor credit. Graduate thesis work may be used in partial fulfillment of requirements for the Master of Science degree, with major or minor in Horticulture. Reregistration until problem is completed. Registration by permission only. Course 201, Fall quarter; 202, Winter quarter; 203, Spring quarter; 204a and 204b, first and second Summer Sessions, respectively. Three to ten credits.

Consultation hours arranged.
ARTS AND SCIENCES AND EDUCATION

ART

CALVIN FLETCHER, Professor; H. R. REYNOLDS, Instructor.

   Sec. 1, M. W. F., 10:00, Sec. 2, M. W. F., 11:00, 330 Main. Reynolds

2. Design—General principles of design in pattern and color, color theory, etc. Winter quarter. Three credits.
   Sec. 1, M. W. F., 10:00, Sec. 2, M. W. F., 11:00, 330 Main. Reynolds

3. Art Appreciation—Art principles as applied to costume, interior decoration, painting, sculpture and architecture will be discussed. Spring quarter. Three credits.
   Sec. 1, M. W. F., 10:00, Sec. 2, M. W. F., 11:00, 330 Main. Reynolds

31. Art in Commerce. Design in advertising. Commercial illustration, posters, display, lettering, etc., will comprise the course. It is recommended to students of commerce, show card and illustration. Fall quarter. Three credits.
   T. Th., S., 8:00, 330 Main. Fletcher

32. Color—The Enjoyment and Use of Color by Sargent will be used as a text. A thorough study of color will be taken up. Recommended for students in Commerce and all students specializing in art or any who desire a good understanding and appreciation of color. Winter quarter. Three credits.
   T. Th., S., 8:00, 330 Main. Fletcher

33. History and Appreciation of Art—Survey of the great achievements of art throughout the ages together with analysis of modern technical processes necessary to the understanding of present day paintings, sculpture, and architecture. Recommended to students of Commerce and all others interested in understanding the work of the great artists of all time. Spring quarter. Three credits.
   T. Th. S., 8:00, 335 Main. Fletcher

122. Home Planning, Construction, and Design—The principles of home design, garden design, house construction, heating, sanitary equipment, etc., together with painting, color and wood finishing will comprise the course. Winter quarter. Three credits.
   T. Th. S., 10:00, 335 Main. Fletcher

123. Interior Decoration—Decoration and furnishing of interiors including furniture, walls, tableware, pottery, pictures, flowers and the practical assembling of all features which go to make the home beautiful. Spring quarter. Three credits.
   T. Th. S., 10:00, 335 Main. Fletcher
It is recommended that students elect 111 parallel or following Art 122 and 123 for laboratory work in the field.

124. Perspective Theory—The principles of cylindrical, parallel and oblique perspective as used in drawing will be covered. Three credits.
320 Art.  

STUDIO COURSES

Conducted as individual laboratory work. Three hours work each week required for each credit granted. Two, three or more credits may be taken each quarter, but not more than the maximum credit indicated will be granted. Students must file their studio hour schedule with the professor in charge of the course during the first week of their attendance.

All studio courses may be taken up any quarter and are given in the Art Studios on 3rd floor, Main building.

One or more examples of student’s work may be retained during the succeeding year for exhibition.

Special instruction in anatomy for art students will be given during the first hour on Friday throughout the year. A class in pose drawing will meet Wednesday 2-5 during the Winter quarter.

A sketch class will be organized to work out of doors on Wednesday afternoons during the Fall and Spring quarters. Any medium may be used within the range of the student’s ability. It is recommended especially to painting, drawing and illustration students.

All studio courses may be taken Mondays, Tuesdays, Wednesdays and Fridays, from 2 until 5.


Th. and Sat., 330 Main.  

Fletcher

5. Elementary Painting—In water color, oil, or pastel. Maximum 15 credits.

330 F.  

Fletcher


328 Main.  

Fletcher


355 Main.  

Fletcher

8. Embroidery Design—Design for embroidery, lace weaving, etc. Maximum 6 credits.

Reynolds

9. Historic Ornament—Egyptian, Assyrian, Greek, French and Renaissance may be studied. Maximum 9 credits.

330 F.  

Reynolds
10. **Elementary Show Card**—Show card and elementary sign writing. Maximum 18 hours.
   352 Main.

11. **Pottery**—Elementary, including building, turning, glazing, firing, etc., such as may be done with limited equipment. Maximum 2 credits.
   328 Main.

12. **China Painting**—Elementary painting processes. Prerequisites: Art, 1, 2, 3 or equivalent. Maximum 12 credits.

13. **Copper Work**—Simple exercises in sawing, raising, and repousse. Maximum 12 credits.
   332 Main.

14. **Leather Work**—Elementary etching, dyeing, cutting and tooling in leather mats, purses, bags, etc. Maximum 6 credits.
   330 A.

15. **Basketry**—Weaving processes in reed, raffia and grass. Maximum 9 credits.
   330 A.

16. **Enameling**—Work on glass, wood, ivory, etc. Maximum 9 credits.
   330 A.

17. **Fabric Decoration**—Elementary stencilling, tie and dye, block-printing and Batik. Maximum 9 credits.
   330 A.

106. **Advanced Drawing**—Life drawing from draped figures, animal drawing and advanced antique. Maximum 15 credits.
   330 E.

108. **Advanced Painting**—Oil, water color, or pastel may be used. Maximum 30 credits.
   330 E.

109. **Advanced Modeling**—From animals or living models. Maximum 30 credits.
   328 Main.

110. **Advanced Illustration**—Newspaper, magazine, costume and decorative illustration, illumination, poster work, or cartooning may be pursued. Maximum 15 credits. Students will pursue one line at a time.
   330 E.

111. **Professional Design**—Design for textiles, wall paper, interior decoration, furniture, etc. One line to be taken at a time. Maximum 12 credits.
   330 F.
112. **Advanced Costume Design**—Prerequisites, Textiles 105, 111. Maximum 6 credits.

113. **Advanced Show Card and Technical Sign Work**—Maximum 12 credits.

114. **Fancy Lettering and Illumination**—Pen lettering and decoration for memorials, documents, Christmas greetings, place cards, etc. Maximum 12 credits.

115. **Advanced China Decoration**—Incrusted work, enamelling, lustre, and past to be taken up. Maximum 15 credits.

116. **Advanced Art Metalry**—Maximum 18 credits.

117. **Jewelry**—Sawing, wire work, filigree, stone setting, enamelling, soldering, etc., will be taken up with brooches, rings, lavalliers, pins, chains, etc. Maximum 18 credits.

118. **Advanced Leather Work**—Tooling, carving, mounting and finishing. Maximum 12 credits.

119. **Advanced Wood Ornamentation**—Carving, inlay, scraffito jesso, etc. Maximum 18 credits.

120. **Advanced Fabric Decoration**—Advanced work in Batik, dyeing, stencilling and block-printing. Maximum 15 credits.

206. **Advanced Drawing**—From animals, life and close anatomical analysis.

208. **Advanced Painting**—Landscape or portrait may be pursued.

209. **Advanced Modeling**—Original projects in sculpture to be carried out.

**CHEMISTRY**

R. L. HILL, Professor; C. T. HIRST, SHERWIN MAESER, Associate Professors.

Students desiring to major in chemistry should consult with the head of the department as soon as possible, since departmental approval is necessary for graduation. Courses 102, 103, 104, 105, 106,
116 and five additional hours of senior college work are required for a major.

1. **Inorganic Chemistry**—An informational course in beginning College Chemistry designed especially for students desiring a brief applied survey of the field of organic chemistry. Credit in this course can not be used as a prerequisite for any course in chemistry except Chemistry 26. Students majoring in chemistry or desiring premedical credit should register for Chemistry 3, 4, and 5. This course should be preceded if possible by Physics 1.

Four lectures, one quiz and one demonstration period per week. Five credits.

- **Sec. 1, Fall, Lec. M. T. W., Th. Quiz and demonstration F. and S., 8:00, Widtsoe Hall.** Maeser
- **Sec. 2, Fall, M. T. W. Th. Quiz and demonstration F. S., 10:00, Widtsoe Hall.** Hill
- **Sec. 3, Winter, Lec. M. T. W. Th. Quiz and demonstration F. S., 8:00, Widtsoe Hall.** Hill
- **Sec. 4, Winter, Lec. M. T. W. Th. Quiz and demonstration F. S., 11:00, Widtsoe Hall.** Maeser
- **Sec. 5, Spring, Lec. M. T. W. Th. Quiz and demonstration F. S., 8:00, Widtsoe Hall.** Maeser

Students who have completed Chem. 1 as given in previous years and desire to complete their course should confer with the department before registering.

3, 4, 5. **Inorganic Chemistry**—A more complete course in inorganic chemistry, including a beginning in qualitative analysis. Prerequisites: High school chemistry or physics or Chemistry 1. Fall, Winter and Spring quarters. Five credits each quarter.

- **M. W. F., 9:00, Lab. T. Th., 2:00 to 5:00, and M. W., 2:00 to 5:00, Second floor, Widtsoe Hall.** Maeser

14, 15. **Qualitative Analysis**—A course in the theory and practice of inorganic qualitative analysis. Prerequisites: Chemistry 2 or 5. Winter and Spring quarters. Three credits each quarter.

- **Lec. T. 2:00, Lab. T., 3:00 to 5:00, Th. F., 2:00 to 5:00, Second floor, Widtsoe Hall.** Hirst

21, 22. **Organic Chemistry**—Fundamental principles of organic chemistry. The chemistry of the carbon compounds. Special attention will be paid to the chemistry of the proteins—carbohydrates, and fats. Prerequisites: Chemistry 2 or 5. Fall and Winter quarters. Five credits each quarter.

- **Lec. T. Th. S., 8:00, Lab. M. W., 2:00 to 5:00, Second floor, Widtsoe Hall.** Hill

26. **Organic Chemistry**—An informational course in organic chemistry arranged for students desiring a brief applied course. Students majoring in chemistry or desiring premedical credit should
102, 103. **Quantitative Analysis**—A course in the theory and application of the fundamental principles of gravimetric and volumetric analysis to inorganic, agricultural and food analysis. Prerequisites: Chemistry 5 or 14 and 15. Winter and Spring quarters. Three credits each quarter.

Lec. Th., 2:00, Lab. Th., 3:00 to 5:00, T. F., 2:00 to 5:00, **Widtsoe Hall**


107, 108. **Dairy Chemistry**—The chemistry of milk and milk products, including tests for adulterants, preservatives, and the routine quantitative methods of analysis of dairy products. Prerequisites: Chemistry 22. Fall and Winter quarters. Three credits each quarter. One lecture and two laboratories.

**Hours to be arranged. Second floor Widtsoe Hall.**

109. **Chemistry of Textiles**—Chemical methods for the identification of textile fibres, including complete quantitative determination of cotton, wool, silk and linen substances in fabrics; Chemistry of dyeing and bleaching. Prerequisite: Chemistry 22, Textiles and Clothing 20, 21. Spring quarter. Three credits.

(Not given 1927-28).


**Hours to be arranged.**

114. **The Nitrogen Compounds**—A course devoted primarily to the proteins, alkaloid and purine derivatives. Prerequisite: Chemistry 22. Winter quarter. Five credits. Hours to be arranged.

(Not given 1927-28.)

115. **Organic Preparations**—An advanced laboratory course in practical laboratory methods of synthetic organic chemistry. Prerequisites: Chemistry 22, and 103. Any quarter.

120. **Special Course in Quantitative Analysis**—Prerequisite: Chemistry 103. Fall, Winter or Spring quarter.


**Time and credit to be arranged with instructor.**

160. **Chemistry Seminar**—Advanced topic in Chemistry required of all seniors majoring in Chemistry. Fall, Winter and Spring quarters. One credit for the three quarters. Hours to be arranged. Stu-
dents can register for one credit any quarter. Credit given in Spring quarter.

180. Research. Senior or graduate students majoring in Chemistry may elect research in any branch of the subject. 

_Time and credit to be arranged._

**EDUCATION**

HENRY Oberhansley, Associate Professor; CALVIN Fletcher, ALICE KEWLEY, Professors; C. E. McClellan, Assistant Professor; H. R. Reynolds, Instructor.

4. **Principles of Education**—This course includes a study of (a) the meaning and aims of education in our democracy; (b) general characteristics of the periods of child growth; (c) underlying principles of the program of studies; (d) objectives, material and methods of character education; and (e) educational measurements applied to the elementary school, including familiarity with a number of the most widely used standardized tests. Fall, Winter or Spring. Three credits.

_Sec. 1, Fall, M. W. F., 8:00. Sec. 2, Winter, M. W. F., 11:00. Sec. 3, Spring, M. W. F., 9:00_ McClellan

5. **Utah State Course of Study**—This course is designed to familiarize prospective elementary teachers with the content of the elementary curriculum and the objectives and standards to be realized in the grades. Fall, Winter or Spring quarter.

_Sec. 1, Fall, M. W. F., 9:00. Sec. 2, Winter, M. W. F., 8:00. Sec. 3, Spring, M. W. F., 11:00._ McClellan

6. **Educational Organization and Administration**—This course will include a brief survey of the evolution of our free schools. A comparative study of the nature, organization, and function of the different units of educational control (local, state and national); a study of methods of raising and apportioning school funds; and special attention to the administration of the Utah School law. Fall, Winter or Spring quarter. Three credits.

_Sec. 1, Fall, T. Th. S., 11:00. Sec. 2, Winter, T. Th. S., 8:00. Sec. 3, Spring, T. Th. S., 9:00._ Oberhansley

12 and 112. **Rural Education**—A survey and study of proposed objectives for rural schools; tendencies in curriculum revision and the organization of rural schools; the preparation of rural teachers; and the functions of the schools as agents in the solution of rural life problems. Senior College students will register for 112 and be assigned extra readings and reports. Winter quarter. Three credits.

_T. Th. S., 9:00_ Oberhansley

21. **Scoutmastership**—A course in the organization, management, and leadership of the Boy Scout Troop. First aid, signalling, handicraft, camping, athletics and games, stories, trees, birds, rocks, stars.
etc. The problems and the aims of the Boy Scout movement. One lecture and one laboratory period. Hikes will be arranged. Winter quarter. Two credits.

**Lec. T. S., 1:00. Committee in charge: Professors Richards, Fletcher, Henry Peterson, William Peterson, Jenson, Oberhansley.**

24. **Apprentice Teaching in Scoutmastership**—For prospective scoutmasters and other social leaders. One lecture each week and active participation as assistant scoutmasters in registered troops. Prerequisites: Education 21. Spring quarter. Two credits.

**T., 10:00. Oberhansley and Scout Commission of the Logan Council of Boy Scouts.**

41. **Methods of Teaching Elementary Subjects**—The spontaneous purposeful activity of the child as the basic principle determining methods. Subject matter reviewed in the light of the foregoing thesis. Significance to teachers of the fact of individual differences. Consideration of school room equipment, organization and play activity. Fall quarter. Three credits.

**Sec. 1, M. W. F., 8:00. Sec. 2, T. Th. S., 8:00. McClellan**

42. **Practice Teaching**—This course is for sophomores who have had educational psychology, principles of education and methods. The apprentice plan is followed which requires an initial period of observation with minor responsibility with gradual increase of work and responsibility as trainees' ability is demonstrated. Fall, Winter or Spring quarter. Six to twelve credits. The quarter during which the student is to do practice teaching must be arranged for at the time of registration in the Fall quarter.

*All Trainees meet on Monday, at 5:00, 279 Main.*

**McClellan**

51. **Drawing for Public Schools**—Methods and technic of drawing as taught in the graded schools, also blackboard drawing. Fall quarter. Three credits.

**T. Th. S., 11:00, 355 Main. Reynolds**

52. **Normal Design and Color as Used in Graded Schools**—Methods of doing and teaching design and color to children. Picture study will also comprise a part of the course. Winter quarter. Three credits.

**T. Th. S., 11:00, 355 Main. Reynolds**

53. **Handiwork for Graded Schools**—Stick printing, stencilling, weaving, basketry, enameling, jesso, pottery and other crafts suited to graded schools will be taken up. Spring quarter. Three credits.

**T. Th. S., 11:00, 355 Main. Reynolds**

61. **Library Methods**—General Reference. Classification and arrangement of books, the card catalog, reference books. Winter and Spring quarters. One credit each quarter.

**T., 1:00., Library. Smith**

110. **History of Education**—A review of the historical develop-
ment of educational theories and practices, with especial emphasis upon the relation of education to the social, religious, political, and industrial conditions of the period. The most important educational reforms and reformers will be studied with a view of seeing what lessons they have for modern education. Fall quarter. Three credits.

M. W. F., 10:00.

111. Science of Education—A study of the scientific data of education as related to the processes and methods used in high school teaching. Consideration will be given to educational values and objectives and to tests and measurements by which standards are determined. Prerequisites: Psychology 102 or 103. Extra hour to be arranged. Fall, Winter or Spring quarter. Four credits.

Sec. 1., Fall, T. Th. S., 9:00. Sec. 2, Winter, T. Th. S., 11:00. Sec. 3, Spring, T. Th. S., 8:00.

113. Methods of Extension Work—Intensive study of the problems and functions of county agricultural agents, county home demonstration agents, agricultural specialists, home economics specialists, club agents, and state extension work; present organization and status of extension work. Field trips will be made into those parts of the state where the most successful extension work is being done. Spring quarter. Three credits.

T. Th. S., 1:00

Oberhansley and Ext. Staff

115. Practice Teaching in High Schools—For those preparing for Junior High School or Senior High School certification by the State. The apprenticeship plan is followed which requires a period of observation and the performance of minor duties at first with gradual increase as the trainee proves himself equal to the work. Prerequisites: Psychology 102 or 103 and Education 111. Four to eight credits. Fall, Winter or Spring quarters. Arrangements must be made at the time of registration in the Fall if training is desired at any time during the year.

All trainees meet on Monday, at 5:00.

Oberhansley


M. W. F., 8:00, 26 H. E.

Kewley

121. The Organization and Administration of Secondary Education—(a) The State Laws and the regulations of the State Board of Education pertaining to public high schools; (b) high school courses of study, including the Utah State course; (c) organization, duties and activities of the teaching staff and the student body; (d) special study of the objectives of social education, including character education as applied to secondary schools and the methods of realizing these objectives. Winter or Spring quarter. Four credits. Extra hour to be arranged.

Sec. 1, Winter, M. W. F., 8:00. Sec. 2, Spring, M. W. F., 8:00. Kewley
122. **Practice Teaching in Home Economics**—Supervised observation of all phases of home economics teaching in various schools of the State. Each apprentice teacher is required to teach a minimum of 30 successful lessons. Round table discussions and individual weekly conferences to parallel practice in teaching. Prerequisites: Education 120, 121. Fall, Winter or Spring quarters. Five to eight credits. **Time to be arranged.**

Kewley


Kewley

126. **Methods of Teaching Agriculture**—For prospective Smith-Hughes and agricultural teachers. The home project and agricultural job analysis will be the basis of the course. Special topics considered are: The Smith-Hughes law and how it operates in Utah; selection and arrangement of subject matter; lesson planning; management of students in class room, laboratory and field; visual and extension methods of teaching. Prerequisites: Education 111 or its equivalent. Fall quarter. Three credits. T. Th. S., 8:00, 177 Main

Newey

127. **Practice Teaching in Agriculture**—Opportunity will be provided for a limited number of men to do some personally directed teaching in Smith-Hughes work in the Logan High School, North Cache High School and the South Cache High School. Prerequisite, first three years of Smith-Hughes course. Fall, Winter and Spring quarters. Eight credits. **Time to be arranged.**

Oberhansley

129. **Educational Administration**—A study of state, city, and rural school systems, with the principles underlying their organization and administration; an examination of the powers, duties, and responsibilities belonging to state and local boards of education, and upon superintendents, principals, and other school officials. A rather extensive review of the literature of this field will be required of the students; the case method of study will in part be followed. Prerequisites: Psychology and History of Education. Winter quarter. Three credits. M. W. F., 9:00.

McClellan

130. **Educational Supervision**—A study of the objectives and ideals of the school; an examination of the course of study as a means of reaching the objectives; a comparative study of the psychology underlying current practices in teaching; and a consideration of the technique necessary for determining success or failure. Plan making and demonstration lessons will be part of the course; also reports on specially assigned visits to teachers at work in the class room. Pre-
requisites: Successful experience in training or in teaching. Spring quarter. Three credits.

M. W. F., 8:00. 

151. Educational Art for High Schools—For those who want to teach art under the Smith-Hughes plan or in High School. The teaching of drawing, the crafts, costume design, interior decoration, commercial design, etc. Prerequisites, a knowledge of drawing and design. Winter quarter. Three credits.

T. Th. S., 9:00, Art room. 

261, 262, 263. Seminar in Education—Individuals will choose or be assigned problems related to their work or prospective careers which they will study thoroughly and report to the group or class. Another aspect of the work of the seminar will be the keeping abreast of the latest researches and reviews of the best current literature in education. Open to seniors and graduates who have laid the necessary foundation in psychology and education. Fall, Winter and Spring quarters. Two credits each quarter.

Time to be arranged. 

ENGLISH AND SPEECH

N. A. PEDERSEN, F. R. ARNOLD, Professors; WALLACE J. VICKERS, Associate Professor; CHARLOTTE KYLE, A. N. SORENSEN, Assistant Professors; CHESTER J. MYERS, FRED HAMMERLY, MILTON MERRILL, Instructors.

9. Scientific Vocabulary—Intensive study of English word formation, derivation, synonyms, and figurative language in order to acquire a large English vocabulary, and to be able to understand scientific terms. Spring quarter. Three credits.

T. Th. S., 9:00, 351 Main.

10. Freshman Composition—A thorough grammatical review. Fall quarter. Three credits.

Sec. 1, M. W. F., 8:00, 360 Main.
Sec. 2, M. W. F., 9:00, 357 Main.
Sec. 3, M. W. F., 9:00, 352 Main.
Sec. 4, T. Th. E., 10:00.
Sec. 5, T. Th. S., 11:00, 352 Main.
Sec. 6, T. Th. S., 8:00, 357 Main.
Sec. 7, M. W. F., 10:00.
Sec. 8, T. Th. S., 9:00, 360 Main.
Sec. 9, M. W. F., 8:00.


Sections, days, hours, and teachers same as listed under 10.
12. **Freshman Composition**—Descriptive and narrative writing. Spring quarter. Three credits. Time and teachers same as listed under 10.

13. **Children's Literature**—Introduction to the prose and poetry of childhood and adolescence. The course should be helpful to teachers. Spring quarter. Three credits. 
   *M. W. F., 11:00, 358 Main.* Pedersen

15. **Miscellaneous Literature**—Prose fiction and poetry from different ages and countries. Spring quarter. Three quarters. 
   *T. Th. S., 8:00, 358 Main.* Pedersen

50, 51, 52. **The History of English Literature**—The literature of Great Britain from the Anglo-Saxon period to the present time, with emphasis upon the literature since the time of Shakespeare. Required of English majors. To register for Winter or Spring quarter, exclusive of Fall quarter, consult instructor. Fall, Winter and Spring quarters. Three credits each quarter. 
   *Sec. 1, M. W. F., 8:00, 358 Main.* Pedersen
   *Sec. 2, T. Th. S., 9:00, 356 Main.* Sorensen

53, 54, 55. **Nineteenth Century Novel**—Class discussion and reports. French, Russian, Italian, German, English, and American novels. Fall, Winter and Spring quarters. Three credits each quarter. 
   *M. W. F., 11:00, 360 Main.* Kyle

70. **The Short Story**—(Not given 1927-28). 
80, 81, 82. **American Literature**—From Colonial times to the present. To register for Winter or Spring quarter exclusive of Fall quarter consult instructor. Fall, Winter and Spring quarters. Three credits each quarter. 
   *T. Th. S., 10:00, 360 Main.* Kyle

86. **Emerson**—Representative essays, speeches, poems, and the "Journal." Spring quarter. Three credits. 
   *M. W. F., 8:00, 352 Main.* Sorensen

87. **Carlyle**—Reading and discussion of selected masterpieces. Fall quarter. Two credits. 
   *T. Th., 10:00, 352 Main.* Sorensen

88. **Browning**—A study of his monologues. Winter quarter. Two credits. 
   *T. Th., 10:00, 352 Main.* Sorensen

English 11, 12 are prerequisites for all courses in English that follow.

105, 106. **College Grammar**—Fall quarter. Three credits. Repeats in Spring quarter. 
   *T. Th. S., 9:00, 357 Main.* Vickers
108, 109. **Advanced Writing**—Review of rhetorical details. Practice in various forms of discourse. Considerable freedom of choice as to type of writing. To register for Winter quarter, exclusive of Fall quarter, consult instructor. Fall and Winter quarters. Three credits each quarter.

*T. Th. S., 10:00, 358 Main.*

Pedersen

111, 112. **The Eighteenth Century Novel**—
*(Not given 1927-28.)*

Sorensen

120, 121. **Debating**—Required of all candidates for college teams. Fall and Winter quarters. Two credits each quarter. One additional credit is given to those who make the college debating team.

*T. Th., 11:00, 357 Main.*

Vickers

125, 126, 127. **Journalism**—News collecting, study of country and city newspapers, preparation of agricultural feature stories for magazines and newspapers. Students of ability may sell much of their class work to the College Department of Information-Service, thus getting much training in publicity work and in Agricultural editorship. Fall, Winter and Spring quarters. Two credits each quarter.

*Time to be arranged, 351 Main.*

Arnold

130, 131. **The Bible as English Literature**—
*(Not given 1927-28.)*

133. **Medieval Literature**—English and some continental literature of the period is studied by types: the epic, the romance, the lyric, etc. The reading is done in translation. Fall quarter. Three credits.

*M. W. F., 10:00, 357 Main.*

Vickers

134. **English Literature 1557-1660**—Emphasis is placed on the non-dramatic literature of the period. Some attention is given to the origin and development of verse forms. Winter quarter. Three credits.

*M. W. F., 10:00, 357 Main.*

Vickers

135. **English Literature 1660-1780**—Fundamentally a study of Classicism with some preparation for a study of Romanticism. Considerable attention is given to the Restoration drama. Spring quarter. Three credits.

*M. W. F., 10:00, 357 Main.*

Vickers


*T. Th., 11:00, 357 Main.*

Vickers

140, 141, 142. **Shakespeare**—Detailed study in class of six plays: Macbeth, Henry the Fourth, King Lear, Hamlet, Othello, Twelfth Night. Collateral reading: various other Shakespearean plays as well as a biography. Fall, Winter, and Spring quarters. Three credits each quarter. To register for Winter or Spring quarters, exclusive of Fall quarter, consult instructor.

*M. W. F., 9:00, 358 Main.*

Pedersen

150, 151, 152. **The English Poets of the Nineteenth Century**—Fall,
Winter and Spring quarters. Three credits each quarter. To register for Winter quarter alone consult instructor.

M. W. F., 9:00, 360 Main. Kyle

153, 154. Chaucer—Extensive reading course. Attention is paid to pronunciation. To register for Winter quarter, not having had Fall quarter, consult instructor. Fall and Winter quarters. Three credits each quarter.

M. W. F., 11:00, 358 Main. Pedersen

163, 164, 165. Modern Drama—A study of the drama from Ibsen up to the present time with some emphasis on recent plays. To register for Winter or Spring quarter, not having had the Fall quarter, consult instructor. Fall, Winter, and Spring quarters. Three credits each quarter.

T. Th. S., 9:00, 358 Main. Pedersen

166, 167, 168. Types of Fiction—Period restricted to the eighteenth and nineteenth centuries. The appearance and development of important types in England and America, together with a comparative study of selected European fiction in translation. To register for Winter or Spring quarter exclusive of Fall quarter, consult instructor. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F., 10:00, 350 Main. Sorensen

SPEECH

1, 2, 3. Vocal Interpretation—The oral interpretation of the printed page. The aim of the course is to develop the ability to appreciate intellectually and emotionally any good literature and to interpret it so that others will appreciate it. To register for Winter or Spring quarter, exclusive of Fall quarter, consult instructor. Fall, Winter, and Spring quarters. Three credits each quarter.

T. Th. S., 11:00, 359 Main. Myers

6, 7, 8. Extemporaneous Speaking—Practice in extemporaneous speaking with a definite study of those principles which make speech effective. Class limited to twenty-five. Fall, Winter, and Spring quarters. Three credits each quarter.

Sec. 1, M. W. F., 9:00, 359 Main.
Sec. 2, M. W. F., 11:00, 359 Main. Myers

English 10, 11, 12 is a prerequisite for all courses in English which follow.

101, 102, 103. Advanced Public Speaking—Practice in the making and delivery of speeches adapted to various audiences and occasions. Fall, Winter, and Spring quarters. Three credits each quarter. Prerequisite: Speech 6, 7, 8, or their equivalent.

M. W. F., 8:00, 359 Main. Myers

122, 123, 124. Advanced Interpretation—The course deals with both dramatic and non-dramatic material. Some attention is given
AGRICULTURAL COLLEGE OF UTAH

to dialect. Prerequisite: Speech 1, 2, 3 or equivalent. To register for Winter or Spring quarter exclusive of Fall quarter consult instructor. Fall, Winter, and Spring quarters. Three credits each quarter.

T. Th. S., 10:00, 359 Main. Myers

GEOLOGY

WILLIAM PETERSON, Professor; REED W. BAILEY, Assistant Professor.

10. Engineering Geology—Dynamical and structural geology as it applies to construction work. Special attention is given to materials affecting road construction, dams and excavations. Winter quarter. Five credits.

Daily, except Sat., 11:00, 282 Main. Bailey

102, 103, 104. General Geology—Physical Historical Geology. A study will be made of the materials making up the earth’s crust, their arrangement and origin. Also a study of the dynamical agents such as wind, running water, moving ice, volcanic activities, etc., which operate upon the earth and modify its outer portion. A study of the sequence of events which have happened to the earth in the past as revealed by the rocks and fossils. A review of the building of the continent with its mountain ranges, and the succession of life which has inhabited the earth. A few field trips will be made. Prerequisites, Chemistry 1, Zoology 3 and 4. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F., 9:00, 283 Main. Peterson and Bailey

105, 106. General Geology—Physical and Historical. The same study will be made as in 102, 103, 104. Winter and Spring quarters. Five credits each quarter.

Daily, except Sat., 10:00, 283 Main. Bailey

107, 108. Economic Geology—The first part of the course will deal with the non-metals with special emphasis on mineral fertilizers; the second part, with metals, their origin and economic uses. Any quarter may be taken without the others. Prerequisites: Geology 102, 103, 104, or 105, 106. Winter and Spring quarters. Three credits each quarter.

M. W. F., 8:00, 283 Main. Bailey

110. Common Minerals and Rocks—The origin and formation of the different kinds of rocks, both sedimentary and igneous and of about seventy-five minerals with methods for their determination. Prerequisites: Geology 102, 103, 104 or 105, 106, Lectures, reading and laboratory work. Winter and Spring quarters.

T. Th., 8:00, Lab. F., 1:00 to 5:00, 283 Main. Bailey

111. Geology of Ground Water—A study of structure to determine the cause of springs, artesian wells, etc. Structural characteristics
that will yield water, either through tunneling or boring. Prerequisites: Geology 102, 103 104 or 105, 106 and Physics 1, 2, 3. Spring quarter. Five credits.  

*Daily, except Sat., 11:00, 283 Main.*  

**112. Advanced Physiography—**Prerequisites: Geology 102, 103, 104, or 105, 106. Fall quarter. Three credits.  
(Not given 1927-28).

**113. Paleontology—**Life succession as found in fossil records. Special emphasis will be placed on the origin and the development of the mammals of today. Spring quarter. Five credits.  

*Daily, except Sat., 12:00, 283 Main.*  

**114. Field Methods—**Necessary in mapping the detailed geology of an assigned area.  

*Time and credit to be arranged.*

**115. Local Geology—**The relief of Utah and bordering states. Relation of the country rock and physical features to productive land areas. One piece of relief modeling may be required from each student. Prerequisites: Geology 102, 103, 104, or 105, 106.  
(Not given 1927-28).

**116. Geology—**Relief modeling, methods by which any topographic map may be converted into a true relief model including either the geology or detailed geography as the student may select.  
(Not given 1927-28).

**117. Agricultural Geology—**Local geology in the valleys of Utah. A detailed study will be made of the rock formations surrounding each valley and the character of soils from the disintegration of these rocks. This course will be prefaced by a study of structural and relief features of Utah as well as a general survey of the drainage systems as they have influenced the disposition of disintegrated rock in the forming of soil.  
(Not given 1927-28).

**HISTORY**

**JOEL E. RICKS, Professor; MILTON MERRILL, Instructor.**

**1, 2, 3. European History—**Survey of European History from the fall of Rome to the present. Fall, Winter and Spring quarters. Three credits each quarter.  

*Sec. 1, T. Th. S., 9:00, Sec. 2, M. W. F., 11:00.*  

**13, 14, 15. United States History—**Survey of United States History from the earliest times to the present. Fall, Winter and Spring quarters. Three credits each quarter.  

*M. W. F., 8:00, 356 Main.*  

**30, 31, 32. English History—**From the earliest times to the present. Fall, Winter and Spring quarters. Three credits each quarter.  

*T. Th. S., 9:00, 356 Main.*
127. **European History 1870-1914**—A study of the forces—social, economic, political and diplomatic—through the period will be made with special consideration of the causes of the war of 1914. Fall quarter. Three credits.  
*M. W. F., 10:00, 356 Main.*

121, 122. **European History**—The expansion of Europe. A study of the causes of expansion of Spain, Portugal, Holland, France, England, Germany and Russia will be made with special emphasis upon expansion in the nineteenth and twentieth centuries. Winter and Spring quarters. Three credits each quarter.  
*M. W. F., 10:00, 356 Main.*

141, 142, 143. **United States History**—From 1830 to the present. The conflict of sections prior to the Civil War, the political struggle and the significance of industry after the Civil War will be emphasized. Fall, Winter and Spring quarters. Three credits each quarter.  
*T. Th. S., 10:00, 356 Main.*

197, 198, 199. **Seminar in United States History**—Sources, Historians, and methods of writing American History will be studied. Research problems, especially in western history, will be assigned to members of the class. Fall, Winter and Spring quarters. Three credits each quarter. Students must register for all three quarters in this course.  
*Time to be arranged.*

**MATHEMATICS**

A. H. SAXER, WILLARD GARDNER, Professors; EDMUND FELDMAN, Associate Professor; GEORGE DEWEY CLYDE, ROY EGBERT, Assistant Professors.

20, 21, 22. **Elementary Analysis**—A one year course arranged for students who can take but one year of mathematics, and who have presented but one unit of algebra for entrance. Graphical methods for presenting facts. Relation of the graph to algebra, arithmetic and geometry. Detailed analytical discussions of the linear equation. Graphical and algebraical solution of triangles. Trigonometry and use of trigonometric tables. Use of logarithms, slide rule, etc. Spring quarter will be devoted to an introductory study of the theory of statistics as applied to Education and Business. Prerequisites: one year of high school algebra. Fall, Winter, and Spring quarters. Three credits each quarter.  
*Sec. 1, M. W. F., 11:00, Sec. 2, M. W. F., 8:00, 178 Main.*

25. **Elementary Statistical Methods**—An introduction to the mathematical theory of statistics together with applications in the fields of Education, Business and Biology. Prerequisites: Math. 21, or 30, or their equivalent. Spring quarter. Five credits.  
*(Not Given 1927-28. See Math 22).*
30. Algebra—This course is designed to meet the needs of students in engineering who present but one unit of algebra and one unit of geometry for entrance. This course prepares for Mathematics 31 and 45 which follow and should not be taken by those who present 1½ units of algebra. Fall quarter. Five credits.

- Sec. 1, Daily, except Sat., 10:00. Clyde
- Sec. 2, Daily, except Sat., 11:00. Egbert

31, 32. Algebra, Trigonometry, and Calculus—A unified course arranged for students in Engineering, but may be taken by any student desiring a standard collegiate course in Algebra and Trigonometry including an introduction to both the differential and the Integral Calculus. Prerequisite: Math. 21, 30 or 1½ units of High School algebra. Winter and Spring quarters. Five credits each quarter.

- Sec. 1, Daily, 10:00. Clyde
- Sec. 2, Daily, 11:00. Egbert

35, 36, 37. Algebra, Trigonometry and Calculus—This is the same course as 31 and 32 above and has the same prerequisites: Given three times per week for three quarters. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F., 8:00. Feldman

40. Solid Geometry—Prerequisite: 1½ units of High School algebra and plane geometry. Fall, Winter and Spring quarters. Two credits each quarter.

T. Th., 8:00. Feldman

45. College Algebra—Prerequisite: 1½ units of High School Algebra or Mathematics 30. Fall or Winter quarter. Five credits.


46. Trigonometry—Prerequisite: Math. 45. Winter or Spring quarter. Five Credits.

(Not given 1927-28. See math. 31-32.)

47. Elementary Calculus—An introduction to the differential and integral calculus. Prerequisite: Mathematics 46. Five credits. Fall quarter.

Daily, except Sat., 10:00. Saxer

60. The Mathematical Theory of Investment—Prerequisite: Mathematics 22 or 45. Three credits. Winter quarter.

(Not given 1927-28).


(Not given 1927-28).


Daily, except Sat., 10:00, 178 Main. Saxer

120. Advanced Analytical Geometry—With applications. Prerequisite: Mathematics 119. Fall quarter. Three credits.

T. Th. S., 8:00, 178 Main. Saxer
121. **Advanced Calculus**—Together with applications to engineering and the sciences. Prerequisite: Mathematics 120. Winter quarter. Three credits.
   *T. Th. S., 8:00, 178 Main.*

122. **Differential Equations and Their Applications**—Prerequisite: Mathematics 121. Spring quarter. Three credits.
   *T. Th. S., 8:00, 178 Main.*

160, 161, 162. **Seminar in Mathematics**—Arranged for students majoring in mathematics, honors candidates and graduate students. Advanced topics in Analytical Geometry, Calculus, Differential Equations and Statistical Methods may be chosen. Time and credit to be arranged.

**MILITARY SCIENCE AND TACTICS**

MARTIN J. O'BRIEN, Major, C. A. C., Professor; JOHN L. HANLEY, First Lieutenant, C. A. C., Assistant Professor; EUGENE J. CALLAHAN, First Sergeant, D. E. M. L., Instructor.

The Agricultural College of Utah, having accepted the provisions of the Act of Congress approved July 2, 1862, is classified as a Land Grant College and is therefore obligated to offer a course in military science and tactics as a part of the College curricula.

Recognizing that preparation for the national defense is one of the important duties of citizenship and that qualities of patriotism, loyalty, discipline, leadership and respect for constituted authority inculcated by proper military training are valuable in the formation of character, it has been the consistent policy of the College to cooperate with the Federal Government in making the Department of Military Science and Tactics as effective as practicable.

To this end, military training has been made a required subject for all male students qualified and eligible therefor. Two years' training in the basic course is required of such students in all Schools of the College unless excused by proper authority.

At the request of the College authorities a senior unit of the Reserve Officers' Training Corps was authorized at this Institution by the President of the United States under the provisions of Section 33 of the Army Reorganization Act of June 4, 1920. Accordingly, the Board of Trustees has agreed to maintain a course in military science and tactics as a required subject for all able-bodied male students during their first two years at the College.

The primary object of establishing units of the Reserve Officers' Training Corps is to qualify students for appointment in the Officers' Reserve Corps of the United States Army. This training will also be as valuable to the student in his industrial or professional career as it would be should the nation call upon him to act as a leader in its defensive forces.

Enrollment in the Reserve Officers' Training Corps is not in any
sense "conscription" nor does it convey liability to service in any component or branch of the United States Army. As its name implies, the R. O. T. C. is an instrument of training and instruction only.

REQUIREMENTS IN MILITARY SCIENCE

Two years of military training are required of all able-bodied male students. By regulation of the College the course is required during the first and second years at the Institution.

No male student will be excused from the requirements in military science except for the reasons as listed on page 77 of this catalog.

Any student claiming exemption for any valid reason will be required to present a petition on the prescribed form which may be obtained at the office of the Registrar and at the office of the Professor of Military Science and Tactics.

RESERVE OFFICERS' TRAINING CORPS

The four years course in the Reserve Officers' Training Corps is divided into the basic course and the advanced course.

The basic course consists of the first two years in military science and corresponds to the freshman and sophomore years. When entered upon by any student it shall, as regards such student, be a prerequisite for graduation unless he is relieved from this obligation by proper authority.

The advanced course consists of the third and fourth years of military science and corresponds to the junior and senior years. Entrance upon the advanced course is elective but once entered upon such course becomes a prerequisite for graduation in accordance with the terms of the establishment of the Reserve Officers' Training Corps.

UNIFORMS AND EQUIPMENT

A serviceable uniform of standard army pattern is furnished by the War Department to each student taking military training. Shoes are not furnished. Each student should provide himself with a pair of high tan shoes, not laced boots, before entering the College, as they will be required immediately upon his admission.

Every student registering for military science will be required to make a uniform deposit of $5.00. The refund of this sum, less the cost of any property lost or damaged, will be made upon the completion of the year or upon withdrawal from the course.

The uniform and equipment issued for the use of students remains the property of the United States. At the end of each year or at such other times as students may terminate their military training, all clothing and other supplies will be returned in a serviceable condition not later than one week following the termination of such training. Articles which have been lost, damaged or destroyed will be charged against the student concerned.
Students in the basic course are required to pursue their courses diligently until satisfactorily completed and to meet such requirements for the care of equipment as may be prescribed. In case of failure in any quarter of the freshman or sophomore years, the student will be required to repeat the work of the quarter in which the deficiency occurred.

Students who complete the two years’ basic course are qualified as non-commissioned officers in the organized reserve, to which position they are appointed if they so desire.

ADVANCED COURSE

The advanced course is elective.

The general prerequisite for admission to the advanced courses are:

a. Completion of two years’ training in the basic course in any senior unit of the Reserve Officers’ Training Corps.

b. Selection for further military training by the President of the College and the Professor of Military Science and Tactics.

c. The execution of an agreement in writing whereby the student, in consideration of the commutation of subsistence furnished to him, agrees:

(1). To continue in the Reserve Officers’ Training Corps during the remainder of his course in this College.

(2). To devote a minimum of five hours per week during this period to the military training prescribed.

(3). To pursue such courses of camp training during this period that may be prescribed by the Secretary of War.

d. The student must be registered in one of the Schools of the College as an undergraduate while pursuing the advanced course.

Each student enrolled in the advanced course will be paid commutation of subsistence at the rate of thirty cents per day from the beginning of the first year of the advanced course to the end of the second year of the advanced course, except while attending camp when the student will be subsisted in kind.

The course of camp training is for six weeks during the summer vacation normally following the student’s completion of the first year of the advanced course. The United States furnishes uniforms, transportation to and from the camp at the rate of five cents per mile, and subsistence for students attending the training camp. Students are also paid at the rate of seventy cents per day during their attendance at camp.

R. O. T. C. BAND

A military band is an element of the Reserve Officers’ Training Corps under the direction of the Band Instructor of the Music Department and is governed by the rules of the Department of Military
Science and Tactics. Uniforms and some instruments are furnished by the War Department.

Students who are selected as members of the band are required to register for military science and music. They will be required to take such theoretical work as may be prescribed and sufficient practical drill to insure their making a creditable appearance in ranks. The greater number of drill hours however will be devoted to band training.

Instruction taken by members of the band is credited as instruction in military science but will not be accepted toward qualification for admission to the advanced course.

CREDITS

Students who satisfactorily complete the basic course receive one credit hour per quarter which is in addition to the 180 credit hours required for graduation.

Students who satisfactorily complete the advanced course receive three credit hours per quarter which counts toward the 180 credit hours required for graduation.

Students majoring in the School of Arts and Sciences may submit Advanced Military Science as a minor for graduation.

Members of the band who successfully complete the work in the various quarters receive credits as follows: first and second years, one-half credit per quarter in military science and one credit per quarter in music. Third year, one credit per quarter in Military science and one in Music.

COURSES OF INSTRUCTION

Classes in military science will not be held at times other than as scheduled herein, but any student desiring extra instruction may make the necessary arrangements with the Professore of Military Science and Tactics.

BASIC COURSES

101, 102, 103. Military Science—Freshman year. Lectures, recitations and drills. Three hours per week. One credit each quarter.

The work during the year is divided as follows:

(a) Practical—Infantry drill; ceremonies; heavy (tractor) and anti-aircraft artillery gun drill.

(b) Theoretical—Infantry drill regulations; military courtesy and discipline; military policy of the United States; first aid; gunners’ instruction (second class subjects).

Entire Class: T. Th. 1:00; also Sec. 1, T., 11:00; Sec. 2, W. 10:00; Sec. 3, Th., 8:00; Sec. 4, Th., 10:00; Sec. 5, F. 8:00.

Hanley

201, 202, 203. Military Science—Sophomore year. Lectures, recitations and drills. Three hours per week. One credit each quarter.

The work during this year is divided as follows:

(a) Practical—Infantry drill; ceremonies; fire control and posi-
tion finding in connection with heavy (tractor) and anti-aircraft artillery.

(b) **Theoretical**—Interior guard duty; military hygiene; map reading and sketching; gunners' instruction (first class subjects).

*Entire Class, T., Th., 1:00.*

*Sec. 1, M. 8:00; Sec. 2, T. 8:00; Sec. 3, T. 11:00; Sec. 4, Th. 9:00; Sec. 5, Th. 11:00.*

**ADVANCED COURSES**

301. **Military Science**—Junior year, Fall (first) quarter. Lectures, recitations and practical instruction. Five hours per week. Three credits. Prerequisite: Military Science 203.

The work of this quarter is divided as follows:

(a) **Practical**—Duties as officers and non-commissioned officers in connection with courses 101, 102, 103, 201, 202 and 203; saber manual; practice in command and leadership.

(b) **Theoretical**—Gunnery for Heavy Artillery.

*Entire class: M. W. F. 10:00; T. 1:00; Th. 1:00 to 3:00.*

O'Brien

302. **Military Science**—Junior year, Winter (second) quarter. Lectures, recitations and practical instruction. Five hours per week. Three credits. Prerequisite: Military Science 301.

The work of this quarter is divided as follows:

(a) **Practical**—Section (a) of course 301 continued.

(b) **Theoretical**—Gunnery for Heavy Artillery; gunners' instruction (expert subjects).

*Entire class: M. W. F. 10:00; T. 1:00; Th. 1:00 to 3:00.*

O'Brien

303. **Military Science**—Junior year, Spring (third) quarter. Lectures, recitations and practical instruction. Five hours per week. Three credits. Prerequisite: Military Science 302.

The work of this quarter is divided as follows:

(a) **Practical**—Section (a) of course 301 continued.

(b) **Theoretical**—Gunners' instruction (expert subjects); artillery material including that used at the R. O. T. C. camp; analysis of artillery drills and target practices.

*Entire class: M. W. F. 10:00; T. 10:00; Th. 1:00 to 3:00.*

O'Brien

401. **Military Science**—Senior year, Fall (first) quarter. Lectures, recitations and practical instruction. Five hours per week. Three credits. Prerequisite: Military Science 303.

The work of this quarter is divided as follows:

(a) **Practical**—Duties of commissioned officers in connection with courses 101, 102, 103, 201, 202 and 203; practice in command and leadership.

(b) **Theoretical**—Motor transportation; field engineering; administration.

*Entire class: M. W. F. 11:00; T. 1:00 to 3:00; Th. 1:00.*

Hanley

The work of this quarter is divided as follows:

(a) **Practical**—Section (a) of course 401 continued.
(b) **Theoretical**—Artillery tactics; military law; rules of land warfare.

*Entire class: M. W. F. 11:00; T. 1:00 to 3:00; Th. 1:00.*

**Hanley**

403. Military Science—Senior year, Spring (third) quarter. Lectures, recitations and practical instruction. Five hours per week. Three credits. Prerequisite: Military Science 402.

The work of this quarter is divided as follows:

(a) **Practical**—Section (a) of course 401 continued.
(b) **Theoretical**—Orientation.

*Entire class: M. W. F. 11:00; T. 1:00 to 3:00; Th. 1:00.*

**Hanley**

**MODERN LANGUAGES AND LATIN**

F. R. ARNOLD, Professor; FRED HAMMERLY, Instructor.

**FRENCH**

1, 2, 3. First Year French—Walther and Ballard's Beginner's French for grammar and conversation. About 400 pages of easy prose are read. Fall, Winter and Spring quarters. Three credits each quarter.

*Sec. 1, M. W. F., 11:00, 351 Main.*

*Sec. 2, M. W. F., 8:00.*

**Arnold**

**Hammerly**

4, 5, 6. Second Year French—French Composition for grammatical review and writing in French. Lavisse's *Histoire de France* for conversation; translating works of nineteenth century authors. Prerequisite: French 1 or two years high school French. Fall, Winter and Spring quarters. Three credits each quarter.

*M. W. F., 10:00, 351 Main.*

**Arnold**

101, 102, 103. Reading Course in Balzac's Novels—Prerequisite: Two years of College French or three of high school. Fall, Winter and Spring quarters. One credit each quarter.

*T., 12:00, 351 Main.*

**Arnold**

104, 105, 106. French Conversation—Games, dictation, learning of a one act play, and writing business letters. Prerequisite: two years of college French or three years of high school. Fall, Winter and Spring quarters. One credit each quarter.

*F., 12:00, 351 Main.*

**Arnold**

107, 108, 109. Reading Course in Leading Plays of the Nine-
teenth Century—Prerequisites: two years of college French or three of high school. Fall, Winter and Spring quarters. One credit each quarter.
(Not given 1927-28).

110, 111, 112. Research Work in French Periodicals and Books—on any one of the following subjects:
(a) Landscape gardening.
(b) Percheron horses.
(c) French finance.
(d) French scientific reports.
(e) Home economics.
(f) Aviation.

The work will consist of outside reading and weekly reports to the instructor. Prerequisite: two years of college French or three years of high school. Fall, Winter and Spring quarters. One credit each quarter.

Hours to be arranged with instructor.

GERMAN

1, 2, 3. First Year German—Grammar, reading, and conversation. Fall, Winter and Spring quarters. Three credits each quarter.

T. Th. S., 8:00, 351 Main.

4, 5. Second Year German—Reading of modern texts, grammar composition. Fall and Winter quarters. Three credits each quarter.

M. W. F., 9:00.

101. Scientific German—Rapid reading of scientific texts in different subjects, according to the course of each student. Specially recommended for students who have had two years work in German in high school or college, and are planning to do advanced work in agronomy, botany, or other sciences. Spring quarter. Three credits.

M. W. F., 9:00.

102, 103, 104. Scientific German—Further work in scientific German. Hours and credits to be arranged with Instructor.

SPANISH


Daily, except Sat., 9:00, 351 Main.


M. W. F., 9:00, 351 Main.
LATIN

1, 2, 3. Grammar and Reading—and study of English vocabulary. Fall, Winter and Spring quarters. Three credits each quarter.

T. Th. S., 10:00, 351 Main. 

4. Caesar and Cicero—Fall quarter. Three credits

T. Th. S., 9:00, 351 Main. 

MUSIC

BRIGHAM CECIL GATES, Professor; WALTER WELTI, Assistant Professor; GEORGE R. HENDERSON, Band Instructor.

A department major must include music 109, 110, 111, 112. Note: Where students are advanced, instrumental or vocal lessons (51 to 62) may apply as Senior College credit toward departmental major. Gifted students may take Harmony under Junior college standing by permission of the Professor.

Students may enter the College choir, glee clubs, orchestra, or band without taking any other music course.


T. Th. S., 10:00, 152 A. 

4, 5, 6. Appreciation and History of Music—From text. This course deals with the history of music from its beginning to the present. Fall, Winter and Spring quarters. Three credits each quarter. No credit will be given for less than two consecutive quarters.

M. W. F., 11:00, 251 A. 

15, 16, 17. Orchestra Combinations—Students may enter this course by permission of the teacher only. Instrumental trios, quartets, etc., for ensemble training. Students taking this course will be required to furnish music for assemblies and school functions. Fall Winter and Spring quarters. One half credit each quarter.

W. or Th., 8:00, 252 A. 

18, 19, 20. Symphony Orchestra—Provides training and practical experience in a wide range of orchestral work. Students are required to play at all public appearances of the orchestra. Fall, Winter and Spring quarters. One and a half credits each quarter.

T., 12:00 to 2:00, W. Th., 12:00, Orchestra and band room. 

21, 22, 23. Chorus—To furnish music for chapel exercises and special occasions. Three hours a week. Fall, Winter and Spring quarters. One credit each quarter.

M. W. F., 12:00, Auditorium.
24, 25, 26. **Male Glee Club**—An organization of men. Membership is limited in number and decided by competition. Three hours a week. Fall, Winter and Spring quarters. One credit each quarter.  
*T.* *Th.* *S.*, *11:00, Auditorium.* 

27, 28, 29. **Ladies' Chorus**—Membership is limited and decided by competition. Three hours a week. Fall, Winter and Spring quarters. One credit each quarter.  
*T.* *Th.* *S.*, *11:00, Auditorium.* 

30. **Public School Music for Grade Teachers**—To prepare teachers to teach music in the grades. The fundamentals of music and how to present them to children, emphasizing singing and song material. Care and development of the child voice. Winter quarter. Repeated in Spring quarter. Three credits.  
*M.* *W.* *F.*, *9:00, 152 A.* 

40. **Beginners Band**—For students needing preparatory work for the regular school band. Fall quarter. One half credit.  
*F.*, *12:00, Band room.* 

41, 42, 43. **Band**—To provide for study and practice of Band instruments and to furnish music for athletic meets and out-door gatherings. Fall, Winter and Spring quarters. One credit each quarter.  
*M.*, *12:00 to 2:00, Th.*, *1:00, Band room.* 

44, 45. **Brass Quartets**—(Students may take this course by permission of the teachers only.) Students taking this course will be required to play for school functions. Winter and Spring quarters. One half credit each quarter. One day a week.  
*Band room.* 

50, 51, 52. **Private Piano Lessons**—(A minimum of 6 hours practice a week for one lesson and 12 for two lessons). For one lesson a week, one and one-half credits each quarter. For two lessons a week three credits each quarter. Special Fees.  
*B. Cecil Gates and Associated Teachers* 

53, 54, 55. **Private Vocal Lessons**—For one lesson a week, one and one-half credits each quarter. For two lessons a week three credits each quarter.  
*Walter Welti and Associated Teachers* 

56, 57, 58. **Brass and Woodwind Instruments**—(A minimum of 6 hours practice a week for one lesson, and 12 hours for two lessons). For one lesson a week, one and a half credits, each quarter. For two lessons a week, three credits each quarter. Special fees. 

109, 110. **Elementary Harmony**—Prerequisite: ability to read music well at sight. Chord construction up to modulation. Winter and Spring quarters. Three credits each quarter.  
*T.* *W.* *Th.*, *10:00, 152 A.*
111, 112. **Advanced Harmony**—Prerequisite: music 109, 110. Chord construction including modulation, secondary sevenths, mixed chords. This course leads to a practical knowledge of this subject useful for any instrument, vocal, arranging or composition. Fall and Winter quarters. Three credits each quarter.  
*T. W. Th., 11:00, 152 A.*

121. **Instrumentation and Arranging**—Prerequisite: 109, 110, and the ability to play at least one instrument well. This course is designed to give students a knowledge of the orchestra and band instruments, their range, character, and transpositions. It will also teach practical arranging for the same. Spring quarter. Two credits.  
*T. Th., 8:00, 252 A.*

**PHYSICAL EDUCATION**

W. B. PRESTON, JOS. R. JENSON, Associate Professors; E. L. ROMNEY, Director of Athletics; MARJORIE GOWANS, CHARLOTTE E. DANCY, Assistant Professors; CATHERINE COOPER CARLISLE, Specialist in Dancing.

Because physical education determines capacity for efficiently carrying out work which a student prepares for in College it is being emphasized more and more each year.

At the beginning of every school year each student is given a medical and physical examination so that he can be adjusted properly to his physical activities.

Physical Education is required in the Utah Agricultural College for six quarters. One credit hour is given for each quarter.

Freshmen are required to meet twice a week for corrective gymnastics. Sophomores meet twice a week for advanced courses.

**THE COLLEGE HEALTH SERVICE**

The Health Service is maintained primarily for the care of students who may become ill during their stay on the campus. It is also looked upon as an educational department to teach preventive medicine and hygiene. Through its consultations, examination, and advice it attempts to point out the causes of ill health and to present clearly the fundamental laws of good health.

**PROFESSIONAL COURSES IN PHYSICAL EDUCATION**

Because of the great demand for trained leaders in community recreation and playground managers; for directors of physical education in high schools, high school coaches, etc., this department offers an opportunity to major or minor in physical education and also to meet the state requirements for certification of teachers of physical education and coaching in high schools.
PHYSICAL EDUCATION FOR MEN

All courses in Smart Gymnasium.

1, 2, 3. **Freshman Gymnastics and Games**—Designed to furnish activity of such a kind and in such a way as will insure correct posture and physical efficiency. Required of all Freshmen. Every quarter. One credit each quarter.

   *Sec. 1, M. W., 9:00, Sec. 2, W. F., 10:00, Sec. 3, M. W., 12:00, Sec. 4, M. W., 2:00.*  
   Jenson and

4, 5, 6. **Sophomore Gymnastics**—A continuation of Physical Education 1 with emphasis on more advanced types of gymnastics and heavy apparatus. Required of all Sophomores. Every quarter. One credit each quarter.

   *Sec 1, T. Th., 9:00, Sec. 2, M. W., 11:00, Sec. 3, T. Th., 2:00, Sec. 4, T. Th., 10:00.*  
   Jenson

8, 9, 10. **Individual Gymnastics**—The work of this course is given for those students who are physically unable to take Physical Education 1, 2, 3, 4, 5, and 6. It is arranged to meet the needs of the individual students, as indicated by the physical examination and study of personal tendencies. Fall, Winter and Spring quarters. One credit each quarter.

   *Hours to be arranged*  
   Jenson

PHYSICAL EDUCATION FOR WOMEN

All courses given in the Women's Gymnasium.

13, 14, 15. **Freshman Gymnastics**—This course consists of exercises arranged according to hygienic, corrective, and educational value; folk dancing games and athletics. Required for graduation. Fall, Winter and Spring quarters. One credit each quarter.

   *Sec. 1, M. W. 9:00; Sec. 2, T. Th. 10:00; Sec. 3 T., Th. 3:00*  

16, 17, 18. **Sophomore Gymnastics**—A continuation of Physical Education 13, 14, 15. Required for graduation. Fall, Winter and Spring quarters. One credit each quarter.

   *Sec. 1, M. W. 12:00; Sec. 2, T., Th. 1:00.*  
   Gowans and

19, 20, 21. **Individual Gymnastics**—This course is given for those students physically unable to take Physical Education 13, 14, 15, 16, 17, 18. It is arranged to meet individual needs as shown by physical examination and study of personal tendencies. Fall, Winter and Spring quarters. One credit each quarter.

   *Hours to be arranged.*  
   Gowans and

PROFESSIONAL COURSES

31, 32, 33. **Interpretative Dancing**—For women. This course consists of dancing based on natural movements. It offers opportunity for music interpretation and pantomimic dancing. Fall, Winter and Spring quarters. One credit each quarter.

   *M. W. F., 2:00.*  
   Carlisle
41, 42, 43. **Elementary Folk Dancing**—For men and women. Includes study of simple folk and national dances, presentation of dance material to different age groups and fundamental steps. Particularly suited to needs of Two Year Normal students. Fall, Winter and Spring quarters. One credit each quarter.

*M. W. F., 11:00.*

Gowans

81, 82, 83. **Competitive Athletics**—For women. Includes practice and methods of coaching sports and athletics for girls. Baseball, basketball, soccer, volley ball, tennis, track and field events. Arranged seasonally. Fall, Winter and Spring quarters. One credit each quarter.

*M. T. W., 4:00.*

Gowans

91, 92, 93. **Swimming**—For women. This course covers swimming for beginners, advanced swimming and diving, life saving. Fall, Winter and Spring quarters. One credit each quarter.

Gowans

71. **The Dramatic Game**—For women. This course takes up the fundamental play rhythms and music; dramatic and singing games showing their historical and racial significance; the development of simple folk dances from singing games; trade dances; Indian dances; pantomimes and ceremonies. Fall quarter. Two credits.

*M. W. F., 10:00.*

Gowans

72. **Theory and Practice of Plays and Games**—For men and women. Study of the theories offered in explanation of the play instinct with Joseph Lee’s *Play in Education* as collateral reading. Methods of presentation and organization of play material for school and play-ground are considered. Winter quarter. Three credits.

*M. W. F., 10:00.*

Gowans

73. **Community Recreation Leadership**—For men and women. Consists of lectures and practical work. Lectures will consider selection of suitable material, and methods of handling various groups. The practice hour will take up games and folk dances. Spring quarter. Two credits.

*T. Th., 9:00, Women’s Gymnasium.*

Jenson

74. **Advanced Swimming**—For men. A continuation of course 3. The student will be required to pass certain standard tests. Winter quarter. Two credits.

*M. W., 4:00.*

Jenson and ............

75 **Competitive Activities**—A course designed to teach students to play basket ball Volley ball, tennis, baseball, soccer football; also the organization of internl thletics, legues, etc. Fall quarter. Two credits.

*T. Th., 11:00.*

Jenson

76. **Advanced Gymnastics**—A study of methods of teaching gymnastics, such as parallel bars, side horse, rings, Indian clubs, as well as advanced floor work in calesthenics. Winter quarter. Two credits

*T. Th., 11:00.*

Jenson
77. **Personal Hygiene for Men**—Lectures covering personal and general hygiene, including care of skin, hair, teeth, nails, care of special senses, as eye, ear, nose and throat; study of rest, exercise, and recreation. Fall, Winter or Spring quarters. Two credits.
   *T. Th., 8:00.*

78. **Personal Hygiene and Sanitation for Women**—A course teaching the care of the body and its proper surroundings. Fall, Winter or Spring quarters. Two credits.
   *T. Th., 1:00.*

106. **Applied Anatomy and Physiology of Exercise.** Prerequisites: Physiology 4. Fall quarter. Five credits.
   *Daily, except Sat., 11:00, Widtsoe Hall.*

108. **Corrective Gymnastics for Women**—Prerequisite: Physical Education 106. Open to Juniors and Seniors. This course gives theory and practice of exercise for correction of such common physical defects as flat feet, poor posture and spinal curvature. Spring quarter. Three credits.
   *Time to be arranged.*

120. **Methods of Coaching**—For men. A theoretical consideration of training and coaching of men’s athletic teams. Fall and Winter quarters. One credit each quarter.
   *Time to be arranged.*

134, 135, 136. **Advanced Interpretative Dancing**—A continuation of Physical Education 31, 32, 33. This course also includes methods of teaching musical interpretation through natural movement. Fall, Winter and Spring quarters. One credit each quarter.
   *M. W. F., 3:00.*

144, 145, 146. **Advanced Folk and Characteristic Dancing**—A continuation of Physical Education 41, 42, 43. More elaborate Folk dances are taught in this course, which also includes clogging, program dances, and a consideration of Pageant and Festival production. Fall, Winter and Spring quarters. One credit each quarter.
   *T. Th., 9:00.*

151, 152, 153. **Principles of Physical Education**—For women. This course deals with the principles and methods involved in teaching gymnastics, dancing, games and swimming. Special attention is given to consideration of High School course of study. Prerequisites: Physical Education 41, 42, 43, 71, 72, 73. Physical Education 81, 82, 83, 91, 92, 93 should precede or parallel this course. Fall, Winter and Spring quarters. Two credits each quarter.
   *Time to be arranged.*

109. **Corrective Gymnastics**—For men. Open to Juniors and Seniors. This course is devoted to the application of gymnastics for the correction of such common defects as flat feet, spinal curvature, etc. Prerequisite: Physical Education 106. Spring quarter. Three credits.
   *T. Th. S., 11:00.*
161, 162, 163. Principles of Physical Training for Men—(Open to Juniors and Seniors). This course includes a comparison of the various systems of Gymnastics teaching in vogue today; also, the objective of Physical Education. Special attention is given to consideration of high school course of study. Prerequisites: Physical Education 73, 74, 75, 76, 77, 106. Fall, Winter and Spring quarters. Two credits each quarter.

M. W., 11:00.

170. Physical Diagnosis and Measurements—For men and women. This course aims to train the prospective physical director to detect the common physical defects. Instruction is given in methods of taking measurements, and in strength tests. Prerequisites: Physical Education 106. Spring quarter. Three credits.

M. W. F., 11:00.

PSYCHOLOGY

HENRY PETERSON, Professor.

1. Introductory Psychology—A first course in the study of human behavior. Designed to help students better to study and to direct their educational careers in College and to understand in a general way the psychology profession, trade, and industry. This course should be taken in the Freshman year. Three credits.

Sec. 1, Fall, T. Th. S., 10:00, Sec. 2, Winter, T. Th. S., 9:00. Peterson

2. Elementary Educational Psychology—This course is designed for those who are preparing to teach in elementary schools. It meets requirements for certification in this and adjoining states. It should be taken in the Freshman year. Prerequisite: Psychology 1 or an equivalent introductory course. Spring quarter. Three credits.

T. Th. S., 9:00.

3. Elementary Educational Psychology—This course is designed for those who are preparing to teach in elementary schools. It meets requirements for certification in this and adjoining states. Should be taken in the Freshman year. No prerequisites. Five credits.

Sec. 1, Fall, Daily at 9:00, Sec. 2, Fall, Daily at 11:00, Sec. 3, Winter, Daily, 11:00, Sec. 4, Spring, Daily, 11:00. Peterson

101. Principles of Psychology—This is a general course in the science of human behavior. It is open to senior college students whether they intend to enter the teaching profession or go into other pursuits. Three credits.

Sec. 1, Fall, T. Th. S., 8:00, Sec. 2, Winter, M. W. F., 8:00. Peterson

102. Advanced Educational Psychology—Designed for those who are preparing to teach in high schools, or to become leaders in other lines of social activity. This course applies the science of psychology to the processes of teaching and leadership. Prerequisite: Education 101 or equivalent. Required for certificates to teach in high schools. Three credits.

Sec. 1, Winter, T. Th. S., 8:00, Sec. 2, Spring, M. W. F., 8:00. Peterson

103. Psychology of Adolescence—A study of the behavior of ado-
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lescents. Designed for high school teachers, and others engaged in leadership of young people. Prerequisite: Education 101 or equivalent. This course may be used for high school certification. Spring quarter. Three credits.

T. Th. S., 8:00.

PUBLIC HEALTH AND BACTERIOLOGY
(Including Physiology and Biochemistry)

J. E. GREAVES, Professor; E. G. CARTER, CHARLOTTE E. DANCY, Assistant Professors; CLAUDE E. ZOBELL, Research Assistant.

1. General Bacteriology—This course deals with the biology and significance of bacteria. The following are considered: the development of bacteriology; the morphology and physiology of bacteria; bacteria in air, food, and water, and the role they play in the arts and industries. Where possible this course should be accompanied with Bacteriology 2. Fall and Winter quarters. Three credits.

Sec. 1, Fall, M. W. F., 9:00, Sec. 2, Fall, M. W. F., 10:00, Sec. 3, Winter, T. Th. S., 9:00, Third floor, Widtsoe Hall.

2. General Bacteriology (Laboratory)—This should accompany Bacteriology 1. Breakage deposit, $2.50. Fall and Winter quarters. Two credits.

Sec. 1, Fall, T. Th. or W. F., 2:00 to 5:00, Sec. 2, Winter, W. F., 2:00 to 5:00, Widtsoe Hall.

3. Pathogenic Bacteriology—The pathogenic bacteria are considered in relation to disease. The subject of immunity is stressed. Prerequisite: Bacteriology 1. Breakage deposit, $2.50. Winter quarter. Five credits.

T. Th. S., 11:00, Lab. W. F., 2:00 to 5:00, Widtsoe Hall.


Spring, Daily, except Sat., 9:00, Winter, Daily, except Sat., 9:00, Spring, Daily, except Sat., 10:00.

*14. Health Education—(May be used for certification). The laws and principles of hygiene are stressed in relation to the school. The teaching of health in the schools receives special consideration. Fall and Winter quarters. Five credits.

Sec. 1, Fall, Daily, except Sat., 8:00, Sec. 2, Daily, except Sat., 9:00, Sec. 3, Winter, Daily, except Sat., 8:00, Widtsoe Hall.


T. Th. S., 10:00, Widtsoe Hall.

* (Cannot be counted as Biological Science except in the two-year Normal Course.)
102. **Soil Bacteriology**—Bacteria are considered in relation to soil fertility. The class will be conducted much as a seminar. Graduate students should arrange with the professor in charge for graduate credit and register for 202. Prerequisite: Bacteriology 1. Fall quarter. Three credits. 

*Not given 1927-28.*

103. **Soil Bacteriology**—Methods used in bacteriological investigations. Should accompany Bacteriology 102. Prerequisites: Bacteriology 1, 2, and Chemistry 103. Breakage deposit $2.50. Fall quarter. Three credits.

*W. F., 2:00 to 5:00, Widtsoe Hall.*

104. **Dairy Bacteriology (Lecture)**—The bacteria of milk, butter and cheese and their relation to disease. Prerequisite: Bacteriology 1. Winter quarter. Five credits. 

*Not given 1927-28.*

106. **Applied Anatomy and Physiology of Exercise**—Prerequisite, Physiology 4. Fall quarter. Five credits.

*Daily, except Sat., 11:00.*

107. **Physiology**—An advanced course in special phases of physiology. Prerequisite: Physiology 4. Winter quarter. Five credits.

*Daily, except Sat., 11:00.*

108, 109. **Public Health and Hygiene**—(May be used for certification). This course deals with the physical and mental health of the individual and his relationship to other members of the community. Some of the subjects considered are: Nature and prevention of diseases; food in its relationship to the well-being of the individual; heating, ventilation; occupational diseases; and especially the promotion of health through education. Prerequisite: Bacteriology 1. Winter and Spring quarters. Three credits each quarter.

*M. W. F., 10:00, Widtsoe Hall.*

111. **Physiological Chemistry**—The transformation going on in the plant and animal. Prerequisites: Chemistry 21 and 22. Spring quarter. Five credits.

*Daily, except Sat., 9:00, Widtsoe Hall.*

112. **Physiological Chemistry**—A laboratory course which may accompany Bacteriology 111. Spring quarter. Two credits.

*Third floor, Widtsoe Hall.*

113, 114, 115. **Biochemistry**—A study of the chemical transformation going on in the animal body. The class will be conducted much as a seminar. Graduate students should arrange with the professor in charge for graduate credit and register for 213, 214, and 215. Two credits each quarter. Fall, Winter and Spring quarters.

*T. Th., 11:00, Widtsoe Hall.*

116. **Sanitary Analysis**—Methods used by the sanitary inspector in examining water, milk and other foods. Prerequisites: Chemistry 103, and Bacteriology 1 and 2.

*Time and credit to be arranged.*
GRADUATE COURSES

207. Research—The laboratory and library facilities are especially arranged for advanced students in bacteriological investigation in agriculture, household science, the industries, sanitary science, and veterinary science.

Time and credit to be arranged, Widtsoe Hall. Greaves and Carter

208, 209, 210. Seminar—Fall, Winter and Spring quarters. Time and credit to be arranged.

COURSES LISTED IN OTHER DEPARTMENTS

Personal Hygiene for Men (See Physical Education 77).
Personal Hygiene for Women (See Physical Education 78).
Care of the Sick (See Household Administration 25).
Mothercraft (See Household Administration 125).

PHYSICS

FRANK L. WEST, WILLARD GARDNER, Professors; N. E. EDLEFSEN, Assistant Professor.

1, 2. General Physics—A lecture demonstration course, designed for students not majoring in Physics or Engineering and requiring a minimum of mathematics. It includes mechanics, heat, electricity and magnetism, sound, and light with their most interesting applications to industry and to life. Fall and Winter quarters. Five credits each quarter.

Daily, except Sat., 9:00, First floor, Widtsoe Hall. West


Daily, except Sat., 9:00, First floor, Widtsoe Hall. West

16. Meteorology, or Physics of the Atmosphere—The methods of weather observation, predictions, frost warnings and the relation of climate to man and to agriculture. Prerequisite: Elementary physics. Fall quarter. Two credits.

T. Th., 10:00, First floor, Widtsoe Hall. West

20, 21, 22. Mechanics, Molecular Physics, Electricity and Magnetism, Heat, Light and Sound. Prerequisite: High school physics. Fall, Winter and Spring quarters. Five credits each quarter.

Lec. M. W. F., 11:00, Lab. M. W. or T. Th., 2:00 to 5:00, First floor, Widtsoe Hall. Edlefen

104, 105, 106. Physical Chemistry—Including atomic theory, kinetic theory of gasses, electron theory, gaseous, liquid and solid states; solutions, thermo-chemistry, electro-chemistry and radio-activity and elementary thermo-dynamics. General physics, chemistry, and cal-
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107. **Advanced Laboratory Work**—Electricity and magnetism, or physical chemistry. One to five credits each quarter. Recommended to students majoring in physics.

*Time to be arranged.*

110, 111, 112. **Direct and Alternating Current Electricity and Its Application to Industry**—Fall, Winter and Spring quarters. Three credits each quarter.

*Lec. T. Th. S., 9:00, First floor, Widtsoe Hall.*

118, 119. **Thermodynamics, Kinetic Theory, and Atomic Structure.** Winter and Spring quarters. Two credits each quarter.

*T. Th., 10:00, First floor, Widtsoe Hall.*

150, 151, 152. **Applied Mechanics for Engineers**—Prerequisite: Calculus. Fall, Winter and Spring quarters. Five credits each quarter.

*Daily, except Sat., 8:00.*

225. **Seminar**—One of the following graduate courses will be given each year. Prerequisite: Calculus. Fall, Winter and Spring quarters. Three credits each quarter.

*M. W. F., 10:00, First floor, Widtsoe Hall.*

209, 210, 211. **Theoretical Mechanics**—

212, 213, 214. **Hydrodynamics**—

215, 216, 217. **Mathematical Theory of Electricity and Magnetism.**

218, 219, 220. **Thermodynamics and Physical Chemistry**—

**ZOOLOGY AND ENTOMOLOGY**

W. W. HENDERSON, H. J. PACK, Professors.

Students specializing in Zoology must take courses 3, 4, 13, 111, 112, 113, 116, 124, 125 and 126.

1. **Elementary General Zoology**—A study of morphology, physiology, differentiation, adaptation, and other zoological principles. A brief survey of the animal kingdom is undertaken to illustrate the application of the foregoing principles in the various groups. Special emphasis is placed on man's relation to the rest of the animal world. This course is intended for those who have not studied zoology be-
fore, and who desire only a general view of the subject. It is recommended for all students except those in Agriculture and Arts and Sciences who desire a more comprehensive course. Fall, Winter or Spring quarters. Five hours credit.

Sec. 1, Fall, Lec. daily, except Sat., 8:00, Lab. T. or F., 2:00 to 5:00
Sec. 2, Winter, daily, except Sat., 10:00, Lab. T. or F., 2:00 to 5:00, Sec. 3, Spring, daily, except Sat., 8:00, Lab. T. or F., 2:00 to 5:00, 227 and 230 Main.

3. 4. General Zoology—A systematic study of the animal kingdom, its general classification and the relationship of the various groups of animals to each other. Emphasis is placed upon structural characteristics, development, functions, and relation of organs in the different groups. This course is well adapted for premedical students. Fall and Winter quarters. Five credits each quarter.

Lec. T. Th. S., 9:00, Lab. M. W., 2:00 to 5:00, 227 and 230 Main.

13. General Entomology—A study of the structure, classification and life histories of insects. A course for students who desire a general knowledge of our common insects. Required of all students majoring in Zoology. Some field trips will be taken. Fall quarter. Four credits.

T. Th. S., 8:00, Lab. W., 2:00 to 5:00.


T. Th. S., 8:00, Lab. W., 2:00 to 5:00.

102, 103, 104. Systematic Entomology—The structure of insects is studied sufficiently to enable the student to use keys employed in classification. Each student must collect, mount, and properly identify a representative collection of insects found in the vicinity of Logan. Fall, Winter and Spring quarters. Three credits each quarter. Graduate credit may be allowed for this course.

T., 2:00 to 5:00, and two other laboratory periods.

106. Entomological Literature—Each student investigates and reports on the literature of some insect within his state. Historical development of entomology, current entomological literature and bibliographies are considered. Prerequisites: Entomology 13, 14, and 102. Graduate credit may be allowed for this course. Fall or Winter quarter. Three credits.

Hours to be arranged, 227 Main.

107. Entomological Technic—A study of methods of collecting, preserving and rearing insects, designed to fit students for specialized work in entomology. Graduate credit may be allowed for this course. Prerequisites: Entomology 13, 14 and 102.

(Not given 1927-28).
108. Insects in Relation to Man—Insects that annoy man, and that carry disease, as well as beneficial insects are considered. A course of important information. Lectures and assigned readings. Winter quarter. Two credits. 
T. and Th., 10:00, 227 Main.

111. Genetics—The biological principles of life and the inheritance of characters. A study of the germ cells with reference to heredity. The questions of variation, mutation, the inheritance of acquired characters, pure lines, Mendelism, sex-determination and genetic principles generally are the main subjects of discussion. Prerequisites: Zoology 1 or 4. Fall quarter. Five credits. 
Daily, except Sat., 11:00, 227 Main.

112. Eugenics—The principles of genetics as applied to the human race. Attention is given the historical development of and needs for eugenics, the inheritance of physical, mental and moral traits, human crosses, consanguineous marriages, eugenic procedure and other principles which influence the inate qualities of human beings. Prerequisites: Zoology III. Spring quarter. Three credits. 
M. W. F., 11:00, 227 Main.

113, 114. Comparative Anatomy—The structure of the vertibrate animal body. In the Winter quarter students will make a thorough dissection of a sexually mature dog-fish shark and in the Spring quarter of a sexually mature cat. Prerequisite: Zoology 1, or 4. Zoology 113, is prerequisite to Zoology 114 and both are prerequisite to Zoology 115. Winter and Spring quarters. Four credits each quarter. Two lectures and two laboratory periods a week. 
Le. M. W., 9:00, 227 Main, Lab. T. Th., 2:00 to 5:00, 228 Main. Henderson

(Not given 1927-28). Henderson

116. Parasitology—The classification, morphology and life history of human parasites. The disease-producing protozoans, flukes, tape-worms, and round worms receive special study. Arthropods as external parasites and carriers of pathogenic organisms receive attention. This course should be taken by all premedical students. Spring quarter. Four credits. 
Lec. T. Th. S., 10:00, Lab. Th., 2:00 to 5:00. Henderson

121. Histology—A general course of Histology. Lectures and laboratory work in the principles of technic, practice, in the preparation of slides and a study of epithelial tissue. Prerequisite: Zoology 3, 4. 
Time and credit to be arranged. Henderson

124, 125, 126. Biological Seminar—The students and faculty of the
departments of Botany and Zoology meet for one hour each week and hear reports from the members of the seminar on topics of mutual interest. Students specializing in Zoology must attend and participate in the activities of this seminar for at least three quarters. One credit each quarter.

Time to be arranged.

The Staff

GRADUATE COURSES

201. **Zoological Research**—The student who wishes to engage in some line of original research and is qualified to do so may elect and study some topic from eugenics, ecology, morphology or other branch of zoology. Open to under-graduate students only by special arrangement with the department. Thesis required.

Hours to be arranged.

Henderson

210. **Entomological Research**—Students may select or will be assigned certain problems dealing with different phases of entomology. The amount of credit will depend on the nature of the problem and the time spent. Thesis. Open to undergraduates only by special permission. Prerequisites: Entomology 13, 14, and 102.

Pack
COMMERCIAL ECONOMICS AND MARKETING

W. L. WANLASS, P. E. PETERSON, Professors; R. M. RUTLEDGE, Associate Professor.

Note: Students in either the School of Agriculture or in the School of Commerce may major in this department. Students specializing in the division of Agricultural Administration should register in the School of Agriculture. This will lead towards such occupations as the management of farms, teaching of farm management, employment as county agents, etc. Students wishing to specialize in the division of Agricultural Marketing should register in the School of Commerce. This will lead towards the business of marketing, management of cooperative enterprises, etc.

The foundation work in the first two years is similar and should include studies in the different branches of the School of Agriculture as well as in the School of Commerce. Liberality in the selection of these courses is permitted, depending upon the type of occupation which the student intends to follow after graduation; but it should include at least twelve credits each from the Schools of Agriculture and Commerce before entrance to Senior College. In the selection of these preliminary courses students should secure the approval of the Department of Agricultural Economics and of the Department in the School of Agriculture or the School of Commerce offering the technical courses which he will later elect as a minor. These courses must be included to satisfy the requirements for a major in this field. Agricultural Economics 51, 101, 111, 112, 113, and either 103 or 153, and Agronomy 117.

A. Practical Experience—Actual experience on selected farms or in selected factories, warehouses, or business organizations. Selection of the type of occupation will be made with a view to student's own plans for his future occupation. Remuneration from employer possible but secondary to purpose of course. No credits allowed, but required of all who wish to major in Agricultural Economics and Marketing before entrance to Senior College. Will be waived in all cases where students have had at least three months of satisfactory experience in production and handling of farm products. Given July, August, and September.

51. Principles of Agricultural Economics—A general course in the principles and problems of Agricultural economics, including the production on the farm, consumption of the products of the farm, distribution of the agricultural income, and government policies towards agriculture. Prerequisites: Economics 1 and 2. Spring quarter. Three credits.

T. Th. S., 8:00.
102. **Farm Administration**—A general course in the principles of management applied to farming. A study of the problems involved in choosing, buying, planning, organizing and managing a farm. Discussions of proper size, balance, diversity and general economics of the farm business. Prerequisites: Agricultural Economics 51. Three credits. Fall quarter.  
*T. Th. S.*, 9:00.  
*Rutledge*

103. **Farm Costs of Production**—Methods of obtaining and determining costs of agricultural products; assembling, tabulation, analysis and interpretation of cost data; cost records, forms for different types of farming enterprises and for cost surveys; the methods of the certified public accountant applied to the farm. Capital, labor and maintenance requirements. Prerequisites: Agricultural Economics 51. Fall quarter. Five credits.  
*Peterson*

105. **Farm Finance and Credit**—A study of the credit needs of farmers and methods of meeting these needs. This involves a study of bank credit and agriculture, the Federal Farm Loan Act, the Federal Intermediate Credits Act, cooperative credit and any new legislation needed to provide for financing adequately the farming business of the country. Prerequisite: Economics 1 and 2, and Agricultural Economics 51.  
(Not given 1927-28).

*T. Th. S.*, 9:00.  
*Rutledge*

110. **Farm Administration Experience**—Advanced studies of one to five problems in managing farms, such as cost accounting, planning rotations, herd management, feeding, etc.; carried on under farm conditions under the joint supervision of the Department of Agricultural Economics, the technical departments of the School of Agriculture and of the Experiment Station, and the County Extension agents. Students will select problems related to proposed occupation after graduation and such as will provide contacts which will prove valuable after graduation. Location of studies may be varied, hence remuneration though possible may only cover expenses for summer. Prerequisites will vary according to problems selected. One to five credits.  
*July, August, and September*.  
*Rutledge*
DIVISION OF AGRICULTURAL MARKETING

111. Principles of Marketing—This course will cover the basic facts necessary to a clear understanding of the problems in marketing. Supply of and demand for farm products, prices and production, the economic relations of the farmer, the middleman and the consumer receive special consideration. Prerequisites: Economics 1 and 2. Fall quarter. Three credits.

M. W. F., 11:00, 177 Main.

112. Marketing of Farm Products—Problems of marketing specific farm products such as livestock, grain, potatoes, hay, dairy products, etc., will be studied from the standpoint of the economic forces which give rise to such problems. Possibilities of improvement of the present system will be considered. Prerequisites: Economics 1 and 2, and Agricultural Economics 51 and Marketing 111. Winter quarter. Three credits.

M. W. F., 11:00, 177 Main.


M. W. F., 11:00.

153. Market Cost Accounting—Assembling, tabulation, analysis and interpretation of cost data related to the cost of marketing various types of agricultural products; the methods of the certified public accountant applied to the marketing of agricultural products. Prerequisites: Agricultural Economics 51. Fall quarter. Five credits.

M. W. F., 8:00, Lab. M. W., 2-5, 302 Main.

160. Marketing Experience—Advanced studies of one to five problems in the marketing of agricultural products, such as cost accounting, warehouse management, wholesale and retail distribution, etc., carried on under actual conditions under the joint supervision of the Department of Agricultural Economics, the technical departments of the School of Agriculture and of the Experiment Station, and the County Extension Agents. Student will select problems related to proposed occupation after graduation and such as will provide contacts which will prove valuable after graduation. Location of studies may be varied, hence remuneration, though possible, may be only sufficient to cover expenses for the summer. Prerequisites will vary according to problems selected. One to five credits.

July, August, and September.

GRADUATE COURSES

201. Land Economics—A study of such important problems of land economics as the following: (1) the history of nations as affected by their land policies, (2) the concept of private property in land,
(3) land classification, (4) land utilization, (5) land valuation, (6) land taxation, (7) land settlement and its relationship to water and irrigation institutions, (8) land ownership and tenancy and their desirability and disadvantages, (9) ranges and ranch land, (10) economics of forest land, and (11) transportation and the use of land. Open only to senior and graduate students. Three credits. Prerequisites: Economics 1 and 2 and Agricultural Economics 51. Fall quarter. Three credits.

T. Th. S., 11:00.

Rutledge


(Given 1928-29).

Rutledge

208, 209, 210. Research—Special investigation in special fields of Agricultural Economics, such as agricultural history or geography, marketing or farm administration. An opportunity to make contacts with the business or farming world. Only senior or graduate students who present an acceptable plan for an investigation will be admitted. Given all quarters. Two to five credits each quarter.

Hours to be arranged.

Wanlass and Rutledge

211, 212, 213. Seminar—All senior and graduate students majoring in this department are required to take part in these round table discussions of current problems and recent publications in Agricultural Economics and Farm Management. Fall, Winter and Spring quarters. One credit each quarter.

Hours to be arranged.

Wanlass and Rutledge

In addition to the above, several courses given in other departments are applicable for credit in Agricultural Economics and Marketing. These courses are:

General crops—Agronomy 101.
Soils—Agronomy 106.
Agricultural History—Agronomy 114.
Agricultural Geography—Agronomy 117.
Advanced Agricultural History—Agronomy 214.
Advanced Agricultural Geography—Agronomy 217.
Forecasting—Business Administration 132.
Principles of Merchandising—Business Administration 151.
Economic Resources of the World—Economics 33.
Rural Sociology—Economics 101.
Rural Community Organization—Economics 185.
Irrigation Institutions—Irrigation 107.
BUSINESS ADMINISTRATION AND ACCOUNTING

P. E. PETERSON, W. L. WANLASS, *D. E. ROBINSON, HENRY PETERSON, Professors; R. M. RUTLEDGE, Associate Professor; *W. E. THAIN, V. D. GARDNER, Assistant Professors; THELMA FOGELBERG, Instructor.

Accounting 101, 102, 103, 107, and 108 may be used to satisfy in part the group requirements in exact science. No other courses in accounting may be so used.

ACCOUNTING

1. Technic of Bookkeeping—Development of the principles of debit and credit, function of the account, technic of entry and posting, preparation and interpretation of financial statements and closing the books. (This course is not required of students who have had one year or more of bookkeeping practice).
   Two lectures per week with assigned problems. A complete practice set will be required. Four credits. 
   Fall quarter, Sec. 1, M. W., 2:00, Winter quarter, Sec. 2, T. Th., 8:00, Lab. (Both Sections), M. W., 3:00-5:00, F., 2:00-4:00, 302 Main. 
   Gardner

2. Advanced Technic—A complete practice set which develops the problems of partnership accounting, accrued and deferred items. Prerequisite: Course 1 or its equivalent. Two lectures. Four credits.
   Winter quarter, Sec. 1, M. W., 2:00, Spring quarter, Sec. 2, T. Th., 8:00, Lab. (Both Sections), M. W., 3:00-5:00, F., 2:00-4:00, 302 Main. 
   Gardner

   Lec. M. W. F., 2:00, Lab. M. W., 3:00-5:00, F., 2:00-4:00. 
   Gardner

   Time to be arranged. 
   Fogelberg

7. Calculator Operation—Methods of correct addition, multiplication and subtraction on calculators. Accuracy and speed secured. Three practice hours each week. Fall quarter. One credit.
   Practice hours to be arranged, 303 Main. 
   Fogelberg

8. Calculator Operation—Methods of multiplication, extending and checking invoices, and discount. Accuracy and speed secured. Three practice hours each week. Fall quarter. One credit.
   Practice hours to be arranged, 303 Main. 
   Fogelberg
9. **Calculator Operation**—Methods of division. Accuracy and speed secured. Three practice hours each week. Spring quarter. One credit.

*Practice hours to be arranged, 303 Main.*

10. **Advanced Calculator Operation**—Practical problems in different kinds of business. Fall, Winter and Spring quarters. One credit each quarter.

*Practice hours to be arranged.*

11, 12, 13. **Accounting Systems**—A study of the application of the principles of accounting to the problems of specific lines of business, such as banks, retail stores, hotels, garages, foundries, milk distribution, etc. Two lectures and assigned problems. Two credits.

*(Not given 1927-28.)*

101. **Principles of Accounting**—A basis course in fundamental theory of double entry. Emphasis will be placed upon construction and interpretation. By means of specially selected practice material the course will be made adaptable to the needs of students in Agriculture, Agricultural Economics, and Marketing as well as to regular students in Commerce. Students who have had Accounting 1, 2, 3, or other courses with bookkeeping practice should register for the lecture only. All others should register in Section 2. Fall quarter. Three credits.

*Sec. 1, Lec. (only) M. W. F., 8:00, Sec. 2, Lec. M. W. F., 8:00, Lab. M. W., 2:00-5:00, 302 Main.*

102, 103. **Principles of Accounting**—A continuation of Course 101 without the laboratory work. Winter and Spring quarters. Three credits each.

*Lec. M. W. F., 8:00, 302 Main.*

104. **C. P. A. Problems**—A selection of the problems used by the various state boards of accountancy and the American Institute of Accountants. Fall quarter. Three credits.

*T. Th. S., 8:00, 302 Main.*


*Lec. T. Th. S., 8:00, 302 Main.*

108. **Household Accounting Practice**—Students who have successfully completed course 107 may, with the approval of the instructor, register for this course. It is the aim of this course to furnish the opportunity for additional practice in the actual keeping of household accounts and in the control of household expenses through budgeting. Assigned problems and reports. Spring quarter. One credit.

*Time to be arranged.*

111, 112. **Industrial Cost Accounting**—A detailed study of the principles of cost accounting as applied to the manufacturing industry, with particular stress upon methods of burden distribution and
interpretation of cost statistics. Lectures with assigned problems and cases.

(Not given 1927-28.)

120, 121. Auditing—A study is made of the theory and practice of auditing. Rules of professional conduct and the duties and responsibilities of auditors are emphasized. A considerable time will be devoted to the mechanics of auditing, the preparation of field notes and the final report. A student may in the Winter quarter, subject to the approval of the instructor, register for an additional credit of actual field practice. Graduate credit may be allowed upon the completion of additional work. Prerequisite: Principles of Accounting or the equivalent. Lectures and assigned cases. Fall and Winter quarters. Four credits a quarter.

Lec. T. Th., 1:00, Lab. T. Th., 2:00-5:00, 302 Main. P. E. Peterson

124. Seminar—A reading and research course designed for seniors and graduates majoring in Business Administration and Accounting. Current articles are assigned for reading and report. Juniors may be admitted upon approval of the instructor. Required of all majors. One credit per quarter. A maximum of six credits will be allowed. Lectures and reports. Open for credit to graduate students.

Wed., 2:00 to 4:00, 302 Main. P. E. Peterson

BUSINESS ADMINISTRATION

25, 26, 27. Approach to Business Problems—This course approaches the problems of business administration from the standpoint of the chief executive. It aims at such a uniform classification of business activities as will provide the student of business with a scientific method of approach to business problems in whatever form they may arise. Fundamentals will first be discussed followed by the application of these principles to select typical cases. It is intended to serve as a guide to the study of the more specific problems of factory, retail store merchandising and sales management problems. Lectures and assigned cases. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F., 9:00, 302 Main. P. E. Peterson

125. Modern Scientific Management—A brief survey of the nature and achievements of Scientific Management including its contributions to industrial and social problems. A major subject in business administration. Lectures and assigned cases. Fall quarter. Three credits.

(Not given 1927-28.)

126. Industrial Management—A study of the fundamentals of sound management, which must be developed prior to granting attention to more specific phases. Special attention is given to the problems of organization, standardization, job analysis, incentive wages, industrial relations, and to the various mechanisms and devices for the control of operations. A major subject in Business Administration. Lectures and assigned cases. Fall quarter. Three credits.

T. Th. S., 11:00, 302 Main. Gardner
127. **Budgets**—This course involves a very careful study of the need for budgetary control of the preparation of departmental budgets and their co-ordination with the master plan or financial budget, the application of budgetary control to manufacturing, merchandising and non-commercial enterprises. Lectures and assigned cases. Spring quarter. Three credits.

*(Not given 1927-28).*

128. **Business Finance**—This course treats of the structure of the corporate enterprise; providing capital for a new company; expansion of existing companies; recapitalization and reorganization of the corporation; financial and operating ratios will be discussed. Proper financial plans and methods of marketing securities will also be considered. Prerequisite: Economics 1, 2, 3 or equivalent. Fall quarter. Three credits.

*M. W. F., 8:00, 302 Main.*

129, 130. **Investment Analysis**—This course takes up a study of the different classes of securities on the market, first, from the standpoint of the industry issuing it, showing suitable methods of analysis; second from the standpoint of its desirability as an investment. Determination of the income yields. Types of investments suitable for different classes of investors. Credit will not be given except upon completion of the two quarters of work. Winter and Spring quarters. Six credits.

*(Not given 1927-28).*

131. **Principles of Insurance**—A general course designed for the business man rather than solely for the specialist. Covers all major forms of property and personal insurance: fire, life, accident, automobile, title and liability policies and fiduciary bonds. Winter quarter. Three credits.

*T. Th. S., 11:00.*

132. **Business Forecasting**—The uncertainty which now attends the outcome of business undertakings constitutes the principal defect of the modern business system. In recent years science has been applied to this field. There is now a great body of material which, if properly understood and used, would be of inestimable value in forecasting business conditions. The aim of this course will be to acquaint students with principles of business barometers. Prerequisites, Economics 1, 2, 3 or 120, 121 and Business Administration 25, 26, 27. Fall quarter. Three credits.

*(Not given 1927-28).*

133-134. **Industrial Management Problems**—Selected cases will be taken up for study and report. Problems in industrial location; on choice of site; on buildings and layout; on selection, purchase and arrangement of equipment; on purchasing and stores; on organization; on industrial research; on labor relations; and on problems in managerial control. Prerequisite, Business Administration 125. Three credits each quarter. Winter and Spring quarters.

*T. Th. S., 11:00, 302 Main.*
136. **Business Ethics**—After a general survey of the science of ethics special consideration will be given to those principles of professional conduct which are rapidly being introduced into modern business. The work of trade associations and professional organizations will be critically analyzed. Spring quarter. Three credits.

*M. W. F.,* 9:00.

### ADVERTISING AND SELLING

51. **Principles of Salesmanship**—Designed to meet the needs of students who want a general knowledge of the principles (psychological and economic) underlying retail, wholesale and specialty selling. Spring quarter. Three credits.

*M. W. F.,* 11:00.

52-53. **Industrial Psychology**—The application of the principles of psychology to the problems of industry. Employment, selection of personnel, training of workmen, individual and plant morale, psychological factors underlying industrial efficiency, merchandising, etc. Prerequisite, Education I. Winter and Spring quarters. Two credits each quarter.

(Not given 1927-28).

151. **Principles of Merchandising**—The object of this course is to familiarize the students with the principles and methods of marketing merchandise and to give them training in the analysis of typical selling problems that are of frequent occurrence in a wide variety of industries and trades. Marketing methods and policies of distribution of consumer’s and industrial goods. A study is made of consumer’s buying habits and motives; methods and costs of retail distribution and methods and costs of wholesale distribution. Lectures and cases. Fall quarter. Three credits.

*M. W. F.,* 11:00, 302 Main.

P. E. Peterson

152-153. **Merchandising Problems**—The aim of this course is to present by means of carefully selected cases the manager’s merchandising problems. The problems for study will include merchandise; distribution channels; sales organization; sales planning; price policies; simplification; brands, trade-marks, etc. Prerequisite, Principles of Merchandising 151. Three credits each quarter.

*M. W. F.,* 11:00, 302 Main

P. E. Peterson

154. **Principles of Advertising**—Designed to meet the needs of all students in business who want a general knowledge of advertising. The literature of advertising; the makeup of advertisements for newspapers and magazines; some experience in the writing of advertisements. Prerequisites, or parallel, Economics 1, 2, 3 or 120, 121, and Business Administration 52, 53. Fall quarter. Three credits.

(Not given 1927-28).

155. **Writing Advertisements**—The preparation of advertising copy, the layout of advertisements, typography, media, rates, etc. Prerequisite, Business Administration 154. Three credits.

(Not given 1927-28.)
156. **Advertising Campaigns**—An advanced course covering the planning and execution of advertising campaigns, the duties of the advertising manager and the function of the advertising agency. Prerequisite, Business Administration 154. Winter quarter. Three credits.

(Not given 1927-28).

157. **Business Letters**—An advanced course covering a study of the business letter, including sales, credit, collection and complaint letters and letters of application. Prerequisite, English 10. Fall quarter. Two credits.

(Not given 1927-28.)

158. **Direct Mail Advertising**—An advanced course covering booklets, inclosures, house organs, etc., but excluding sales letters, which are covered in Business Administration 157. Prerequisite, English 10. Winter quarter. Two credits.

(Not given 1927-28).

159. **Direct Mail Advertising**—A continuation of Business Administration 158. This course includes a study of business reports and correspondence supervision. Prerequisite, English 10. Spring quarter. Two credits.

(Not given 1927-28).

160, 161. **Retail Store Management Problems**—The aim of this course is to present, by means of carefully selected and co-ordinate cases, the management problems of retail stores. The problems studied include accounting, statistics, organization, merchandise, selling, stock, buying, personnel, finance, price policies, and general administrative policies. The case method. Fall and Winter quarters. Three credits each quarter.

(Not given 1927-28).

171. **Advertising and Sales Problems**—A course in special advertising and sales problems. The student may take up any phase of the subject for which he is adequately prepared. No student may register for this course without first securing the permission of the instructor in charge. Any quarter. Credit will be allowed in proportion to the amount of work for which the student is qualified to pursue graduate work.

(Not given 1927-28).

**SECRETARIAL WORK**

**Stenography**

75, 76, 77. **Elementary Stenography**—Thorough drill in the fundamental rules of the Isaac Pitman system of shorthand. Fall, Winter and Spring quarters. Three credits each quarter.

*T. Th. S., 10:00, 305 Main.*

Fogelberg

78, 79. **Elementary Stenography**—Thorough drill in the funda-
mental rules of the Gregg system of shorthand. Winter and Spring
quarters. Four credits each quarter.

M. T. W. F., 9:00, 305 Main.

Fogelberg

80, 81, 82. Advanced Stenography—Thorough review of the prin-
ciples and drill in the attainment of speed. Open to both Gregg and
Isaac Pitman students. Fall, Winter and Spring quarters. Three
credits each quarter.

M. W. F., 3:00, 305 Main.

Fogelberg

Typewriting

Students must consult with instructor in order to arrange for
sections.

86, 87, 88. Beginning Course—Correct fingering and proper ma-
nipulation of the machine. Fall, Winter and Spring quarters. One
credit each quarter.

Students are required to register in two sections and only two and
are required to register so that they can have practice five days a
week.

Sec. 1, M. W. F., 8:00.
Sec. 3, M. W. F., 9:00.
Sec. 5, M. W. F., 10:00.
Sec. 7, M. W. F., 11:00.
Sec. 9, M. W. F., 2:00.
Sec. 2, T. Th., 8:00.
Sec. 4, T. Th., 9:00.
Sec. 6, T. Th., 10:00.
Sec. 8, T. Th., 11:00.
Sec. 10, T. Th., 2:00.
303 Main.

Fogelberg

89, 90, 91. Second Year Course—Daily exercises in which ac-
curacy and speed are attained. Fall, Winter and Spring quarters.
One credit each quarter.

Students are required to register in two sections, and only two, and
are required to register so that they can have practice five days a
week.

Sec. 1, M. W. F., 8:00.
Sec. 3, M. W. F., 9:00.
Sec. 5, M. W. F., 10:00.
Sec. 7, M. W. F., 11:00.
Sec. 9, M. W. F., 2:00.
Sec. 2, T. Th., 8:00.
Sec. 4, T. Th., 9:00.
Sec. 6, T. Th., 10:00.
Sec. 8, T. Th., 11:00.
Sec. 10, T. Th., 2:00.
303 Main.

Fogelberg
92, 93, 94. **Advanced Typewriting**—Advanced speed work and intensive drill in tabulation. Fall, Winter and Spring quarters. One credit each quarter.

Students are required to register in two sections, and only two, and are required to register so that they can have practice five days a week.

- **Sec. 1**, M. W. F., 8:00.
- **Sec. 3**, M. W. F., 9:00.
- **Sec. 5**, M. W. F., 10:00.
- **Sec. 7**, M. W. F., 11:00.
- **Sec. 9**, M. W. F., 2:00.

- **Sec. 2**, T. Th., 8:00.
- **Sec. 4**, T. Th., 9:00.
- **Sec. 6**, T. Th., 10:00.
- **Sec. 8**, T. Th., 11:00.
- **Sec. 10**, T. Th., 2:00.

303 Main.

**ECONOMICS AND SOCIOLOGY**

W. L. WANLASS, F. D. DAINES, Professors; JOS. A. GEDDES, R. M. RUTLEDGE, Associate Professors; D. V. GARDNER, Assistant Professor.

Students may major in either Economics or Sociology.

Courses starred (*) are acceptable toward a major in Sociology.

1, 2, 3. **General Economics**—After a brief survey of man's economic development, a careful study is made of those fundamental laws and principles that govern our modern economic life. Some attention is also given to present economic problems preparatory to a more intensive study in the advanced courses in this department. Fall, Winter and Spring quarters. Three credits each quarter.

- **Sec. 1**, M. W. F., 8:00, 280 Main. **Wanlass**
- **Sec. 2**, M. W. F., 10:00. **Daines**
- **Sec. 3**, T. Th. S., 9:00. **Rutledge**
- **Sec. 4**, T. Th. S., 10:00. **Daines**
- **Sec. 5**, M. W. F., 11:00. **Gardner**
- **Sec. 6**, M. W. F., 10:00. **Wanlass**
- **Sec. 7**, I and 2. Winter and Spring Quarters, M. W. F., 8:00. **Gardner**

10. **Current Economic and Political Problems**—The inability to correlate college work with the world of affairs greatly diminishes the value of a college education. The aim of this course will be to assist students to read intelligently. Extensive reading of current newspapers and magazines will constitute the basis for class discussion. Winter quarter. Three credits.

M. W. F., 11:00, 361 Main. **Daines**

15. **Principles of Human Geography**—The purpose of this course is to set forth the great principles of geography in its human aspects—the relation of location, land forms, water bodies, climate,
minerals, soil, plant life, etc., to economic, social, political and cultural organization. Fall quarter. Three credits. Sections limited to 15.

Sec. 1, M. W. F., 8:00. Sec. 2, T. Th. S., 8:00.

16. Economic Resources of North America—An analysis of resources and industries, with particular emphasis upon their regional distribution in the United States. Relation to social conditions; the historical background. Climate, minerals, agricultural productions, transportation, facilities, etc. Special attention paid to those forces tending to bring about changes in our economic structure. Winter quarter. Three credits. Sections limited to 15.

Sec. 1, M. W. F., 8:00; Sec. 2, M. W. F., 9:00.

17. Economic Resources of the World—Economic, social, industrial, mineral and agricultural resources in relation to commerce, climate, population, etc., in their world relationships. Typical industries will be followed from the production of their raw materials to the marketing of their finished products. Spring quarter. Three credits. Sections limited to 15.

Sec. 1, M. W. F., 8:00; Sec. 2, M. W. F., 9:00.

30. Economic Development of the United States—This course indicates the dominance of economic forces in history. A critical study of the evolution and progress of American agriculture, industry, commerce, transportation, banking, labor organizations, etc., from the colonial period to the present time, ending with a survey of existing institutions. Winter quarter. Three credits.

T. Th. S., 8:00.

80. Applied Educational Sociology—By utilizing a series of practical problems it is aimed to prepare the public school teacher for meeting the problems of school and community. Fall quarter. Three credits.

M. W. F., 9:00, 361 Main.

101. Applied Rural Sociology—A study is made of the problems and the conditions of rural life as a basis for constructive action in developing and maintaining an efficient and wholesome civilization in the country. Winter quarter. Three credits.

T. Th. S., 8:00, 361 Main.

110. Commerce and Commercial Policies—Attention given to the fundamentals of trade and commerce, to the methods of increasing, limiting and directing American trade and an analysis of sound commercial policies. Prerequisites, Economics 1, 2, 3. Three credits.

(Not given 1927-28.)

125. Labor Problems—A study of the labor situation from the social point of view. Special attention is given to labor problems and to methods of securing industrial peace. Prerequisites, Economics 1, 2, 3. Spring quarter. Three credits.

T. Th. S., 8:00.
131. Statistical Methods—This course deals with statistical method rather than the mathematics of statistics. Special attention will be given to those forms and methods of procedure that are used in the social sciences and agriculture. Actual statistical studies will be made by each student. Prerequisites, Economics 1, 2, 3. Fall quarter. Three credits.

_M. W. F., 9:00._

135. Transportation Economics—Emphasis is placed chiefly on railroad transportation in the United States. Some attention will be given to highway transportation. The underlying economic principles will receive more attention than the practical phases of transportation. Special attention will be given to those problems that are peculiar to the intermountain section. Prerequisite, Economics 1, 2, 3. Winter quarter. Three credits.

_M. W. F., 9:00._

150, 151. Principles of Sociology—The foundations of sociology are studied in order that a plan of social progress may be formulated. The problems of social origins, social structure, public opinion, social activities, social organization, and social evolution are carefully considered. 150 prerequisite for 151. Fall and Winter quarters. Three credits each quarter.

_T, Th. S., 9:00._

155. Principles of Taxation—After a brief survey of the fundamental economic principles of public finance, a critical examination of our federal, state and local tax systems will be made. The tariff, the general property tax, the income tax and the various business taxes will be studied. Special attention will be given to tax problems in Utah. Prerequisites, Economics 1, 2, 3. Three credits.

(Not given 1927-28).

161, 162. Modern Social Problems—A selection of a series of social problems is made. These problems are studied with the twofold object of ascertaining the present situation and of arriving at common sense solutions which harmonize with the present situation and at the same time conform to sound social policy. Prerequisites, Sociology 150, 151. Winter and Spring quarters. Three credits each quarter.

_M. W. F., 9:00._

165. Money and Credit—The nature, development and uses of money and credit. Special attention given to bimetallism, the gold standard, the money market and the relation of money and credit to prices. Prerequisites, Economics 1, 2, 3. Fall quarter. Three credits.

_T. Th. S., 11:00, 177 Main._
180, 181, 182. Current Economic Problems—(Economics Seminar.) A reading and research course designed for junior, senior and graduate students who are majoring in economics and related subjects. Special reports on current economic problems and literature will be made. Required of students graduating in economics. Fall, Winter and Spring quarters. One credit each quarter. Two years credit allowed.

Tuesday, 2:00 to 3:00. The Department

185. Community Organization and Leadership—A course dealing with the efforts of communities to organize the various fields which have to do with the chief interests of life. The coordination of agencies, the opportunities for leadership, the effects of disorganization are studied. Prerequisites, Sociology 150, 151. (Not given 1927-28).

190, 191, 192. Seminar in Sociology—Fall, Winter and Spring quarters.

Monday evening, 5:00 to 7:00. Geddes


GRADUATE COURSES

200. Research in Economics—Special investigations in problems of economics may be carried on by senior and graduate students. Credit will be granted according to work done.

Time to be arranged. Wanlass

201. Research in Sociology—The purpose of this course is to direct mature students in original investigations in social problems. Prerequisites, Sociology 150, 151. Credit and hours to be arranged. Geddes

202, 203. The Study of Society—An advanced course in Sociological theory. A study is made of human nature, of isolation, of social forces, of competition, of conflict, of accommodation, of assimilation, of social control and of progress. Sociology is studied both as a classified body of facts and as a method of investigation. Prerequisites, Sociology 150, 151. (Not given 1927-28).

206. Advanced Economic Theory—A critical analysis of present day economic theories and doctrines. The purpose of the course is to enable students to get a better grounding in economics and to correlate the work of the various courses in economics. Only senior and graduate students who have had considerable work in economics will be admitted. Spring quarter. Three credits. T. Th. S., 11:00. Wanlass
4. Citizenship—The aim of the course is to make a study of the social environment from the point of view of discovering the points of contact between the individual and the problems of human relationship. Fall quarter. Three credits.

*M. W. F., 11:00, 361 Main.*

5. State Government—The relationship of the States and the Nation in our federal form of government. The government of Utah will receive special attention. Fall quarter. Three credits.

*Not given 1927-28."

8. Current International Problems—The aim of this course is to develop the ability to use understandingly newspapers and other sources of information on current world events. The world problems in which the United States is especially interested are considered. Spring quarter. Three credits.

*M. W. F., 11:00, 361 Main.*


(See Economics 10.)

11, 12, 13. Commercial Law—The law of contracts, agency, negotiable paper, banks and banking, guaranty and suretyship. A comprehensive study of the principles of law underlying each of the above subjects. Open to all students of Sophomore standing or above. Fall, Winter and Spring quarters. Three credits each quarter.

*T. Th. S., 8:00, 352 Main.*

101, 102, 103. International Relations—Psychological, economic, racial and other obstacles to international co-operation. International organizations established prior to the World war. The Treaty of Versailles; the League of Nations; the present day world politics. Prerequisites: one year of Social Science. Three credits each quarter.

*T. Th. S., 8:00, 361 Main.*

104. 105. Commercial Law—The law of bailments, sales of personal property, partnerships, corporations and bankruptcy. Prerequisites, Political Science 11, 12, 13. Fall and Winter quarters. Three credits each quarter.

*M. W. F., 8:00, 352 Main.*

106, 107, 108. Commercial Law—The law of property, real and personal, including deeds, conveyancing and abstracts of title, mortgages, will and estates. The law of insurance and debtor and creditor. Prerequisites, Political Science 11, 12, 13. Fall, Winter, and Spring quarters. Three credits each quarter.

*Not given 1927-28.*)
*M. W. F.*, 8:00, 352 *Main.*  
*Bullen*

112. **State Administration**—The organization and activities of state agencies of administration. A comparison of administrative organization of Utah with that of other states in the Union. Fall quarter. Three credits.  
*M. W. F.*, 9:00, 361 *Main.*  
*Daines*

113, 114. **Municipal Government and Administration**—The government and problems of cities with special reference to American experience. Organization, personal, and practices which have developed in the performance of the various business functions of the city government. Prerequisites, one year of Social Science. Winter and Spring quarters. Three credits each quarter.  
*M. W. F.*, 9:00, 361 *Main.*  
*Daines*

116. **Theory of State**—The nature of the State, its organization and activities, and its relation to individuals and to other states. Prerequisites, one year of Social Science. Fall quarter. Three credits. (Not given 1927-28).

117. **American Political Ideas**—Fundamental theories underlying American Political institutions and governmental policies. Prerequisites, one year of Social Science. Winter quarter. Three credits. (Not given 1927-28).

118. **Political Parties**—Their function in government; their organization and methods. Prerequisite, one year of Social Science. Spring quarter. Three credits. (Not given 1927-28).

121, 122, 123. **Introduction to International Law**—Rules regulating international intercourse, considered from a non-technical point of view. Emphasis upon America's contribution and stand on disputed questions. Prerequisites, one year of Social Science. Three credits each quarter. *Not given 1927-28."

124, 125, 126. **Public Opinion**—The aim of the course is to investigate the psychological and other factors involved in the determination of opinion of public questions. The reliability of sources of information and the subjective influences that must be taken into consideration are discussed. The use of various methods of spreading propaganda is considered. Prerequisites, one year of Social Science. Fall, Winter and Spring quarters. Three credits each year. (Not given 1927-28).
# Applied Mechanics and Design

**CE 1. Materials of Engineering and Plain Concrete**—The chemistry of steel, the alloys, etc., and their special use in machine parts; strength, composition and proper use of the woods, plaster, glass, glue, paints, brick, etc., in building. Cement, sand and gravel. Mechanical analysis, curves, water-cement ratio, cement and concrete testing. Spring quarter. Three credits.

*M. W. F., 11:00, Concrete Lab., Eng. Bldg.*

**CE 2. Design of Structural Details**—The design and detail of simple ties and struts; strength and holding power of nails, screws, bolts and rivets. Some simple structures in wood and steel will be completely detailed. Fall quarter. Three credits.

*T. Th. S., 10:00.*

**CE 101, 102. Engineering Mechanics**—Statics and kinetics, resultant of forces, equilibrium of force systems, friction; moments and moments of inertia, force, mass and acceleration; work and energy; impulse and momentum. Fall and Winter quarters. Five credits each quarter.

*Lec. daily except Sat., 8:00.*


*Lec. daily except Sat., 8:00.*

**CE 106. Reinforced Concrete**—The fundamental principles of reinforced concrete design. Slabs, beams, girders, and columns. Winter quarter. Five credits. Prerequisite, CE 101, CE 102, CE 103.

*Lec. M. W. F., 11:00, Lab. T. Th. or M. W., 2:00 to 5:00.*

**CE 107. Masonry Construction**—A continuation of course 106 with special application to foundations, bridges, retaining walls, drains, and irrigation structures. Spring quarter. Three credits.

*Lab. T. F., 1:00 to 5:00, 307 Eng. Lab. Bldg.*
CE 110. **Graphic Statics**—The graphical analysis of stresses in framed structures. Fall quarter. Three credits. Prerequisites, CE 101, CE 102, CE 103.

_LECT. T. TH. S., 9:00, 307 ENG. BLDG._

_Feldman_

CE 111, 112. **Bridge Analysis**—The algebraic and graphical analysis of stress in the modern types of bridge trusses. Special attention is given to influence lines and equivalent uniform loads. Prerequisites, CE 103 and CE 110. Winter and Spring quarters. Three credits.

_LECT. T. TH. S., 9:00, 307 ENG. BLDG._

_Feldman_

CE 113, 114, 115. **Bridge Design**—The design of the modern types of bridges and culverts in wood, steel and concrete. Prerequisite, CE 103 and CE 112. Fall, Winter and Spring quarters. Three credits per quarter.

_LECT. M. W. F., 9:00, 307 ENG. BLDG._

_Feldman_

CE 201. **Indeterminate Structures**—The nature of the problem. The elastic theory; method of least work; moment area method and method of elastic weights. Three credits.

_HOURS TO BE ARRANGED. 306 ENG. BLDG._

_Feldman_


_HOURS TO BE ARRANGED. 306 ENG. BLDG._

_Feldman_

**HIGHWAYS**

CE 21. **Highway Construction**—Location, grade, drainage, resistance to traction, road materials, construction methods and costs. Fall quarter. Five credits.

_T. TH. S., 11:00, 203 ENG. BLDG._

_West_

CE 22. **Inspection of Highway Construction**—A study of the road inspector's duties on all types of roads, pavements and bridges. Winter quarter. Three credits.

_T. TH. S., 3:00, 203 ENG. BLDG._

_West_

CE 121. **Highway Administration and Design**—State, County and City highway departments, highway and local improvement laws, traffic regulations, taxation and methods of financing county roads and city pavements. Economic design and reconstruction. Winter quarter. Three credits.

_T. TH. S., 8:00, 203 ENG. BLDG._

_West_

CE 122, 123, 124. **Seminar**—One credit each quarter.

Fall quarter, _M., 2:00 to 5:00_; Winter quarter, _F., 2:00 to 5:00_; Spring quarter, _T., 2:00 to 5:00_, 205 ENG. BLDG.

_West_

CE 125. **Transportation**—Development of highway transportation.
Comparison of methods of transport of passengers and commodities by highway, railway and waterway. Organization and operation of Rural Motor express lines, freight lines and bus lines, etc. Spring quarter. Three credits.

*T. Th. S., 8:00.*

CE 126, 127, 128. **Undergraduate Thesis**—Senior year. One credit each quarter.

*Hours to be arranged.*

**IRRIGATION AND DRAINAGE**

CE 141, 142. **Hydraulics**—Views of liquids in motion and at rest; flow in natural and artificial channels and elementary principles of motor power development. Fall and Winter quarters. Three credits.

*Lec. M. W., 9:00, Lab. F., 2:00 to 5:00, 304 Eng Bldg.*

CE 143. **Hydrology**—The occurrence, utilization and control of water, rainfall, stream flow and runoff, measurements and records, reservoirs, and pumping for irrigation. Open especially to prepared seniors. Spring quarter. Three credits.

*(Not given 1927-28).*

CE 144. **Managements and Operation of Irrigation Systems**—Delivery of water to irrigators, annual water charges, operation costs. Prerequisites, Design of Irrigation Systems, CE 146, 147. Winter quarter. Three credits.

*(Not given 1927-28).*

CE 145. **Design of Drainage Systems**—Preliminary survey, location of drains, flows in open channels and construction of drainage systems with special reference to drainage of irrigated lands. Prerequisites, CE 141 and 142. Spring quarter. Five credits.

*(Not given 1927-28.)*

CE 146, 147. **Design of Irrigation Systems**—Sources of water supply, diversion works, canal alignment and cross section, flumes, drops and spillways. Prerequisites, CE 141 and 142 and CE 101, 102. Fall and Winter quarters. Five credits each quarter.

*Lec. M. W. F., 10:00, Lab. M. W., 2:00 to 5:00, 304 Eng. Bldg.*


*Lec. M. W. F., 10:00, Lab. M. W., 2:00 to 5:00, 304 Eng. Bldg.*

CE 149, 150. **Irrigation Institutions**—Water right doctrines, laws governing the adjudication and acquirement of water rights and the distribution of water; organization of irrigation enterprises. Prerequisite or parallel, a general course in Economics of Sociology. Winter and Spring quarters. Three credits each quarter.

*M. W. F., 11:00, 304 Eng. Bldg.*

CE 151, 152. **Undergraduate Thesis and Seminar**—Papers and dis-
cussions upon problems concerning irrigation and drainage. Required of students who major in Irrigation and Drainage. Fall and Winter quarters. One credit each quarter.

Hours to be arranged.

Israelsen or Clyde

MECHANICAL DRAWING

EDMUND FELDMAN, Associate Professor.

Drawing rooms are open from 8:00 a.m. to 5:00 p.m., daily. Supervised instruction given from 2:00 to 5:00 on Tuesdays, Thursdays and Saturdays, during Fall and Spring quarters, and from 2:00 to 5:00 daily during Winter quarter. Three hours per week are required for one credit, but credit will be granted upon the basis of the amount of work for which the student is registered. All classes carried out simultaneously in Room 307, Engineering Building. The following courses are offered each quarter:

CE 61. Engineering Drawing—The use and care of instruments, applied geometry and orthographic projection. Four credits.

T. Th. S.


M. W. F., 2:00 to 5:00.

CE 63. Descriptive Geometry—The point, line plane and simple solids are studied. Four credits.

T. Th. S., 2:00 to 5:00.

CE 64. Highway Structures—Structural problems such as bridges, dams, retaining walls, etc., in orthographic projection. Two credits.

CE 65. Drawing for Builders and Mechanics—The use and care of instruments and orthographic projection. Two credits.


CE 67. Drawing and Builders—Building details such as walls, windows, doors, etc. Two credits. Prerequisites, CE 65 and 66 or CE 62.

CE 68 Machine Drafting—Drawing of fastening such as bolts, screws, etc. Two credits. Prerequisites, CE 65 and 66 or CE 62.


CE 70. Machine Drafting—Assembly and detail drawing of machine and machine parts. Three credits.

CE 71. Map and Topographical Drawing—Surveys, symbols, topographical maps, etc. Three credits.
CE 72. Industrial Drawing, Lettering—The use and care of instruments and the elements of orthographic projection. The graphical presentation of business data, plant layout, routing, flow sheets, etc. Inspection trips will be made to typical industries. Winter quarter. Three credits.

M. W. F., 2:00 to 5:00.

CE 73. Linear Perspective—Shades and Shadows. Of interest to the advanced student of rural architecture and mechanical drawing. Any quarter. Three credits.

Hours to be arranged.

CE 74. Irrigation Drafting—Drafting of irrigation structures including pumping plants, etc., in orthographic projection. Any quarter. Three credits.

CE 75. Architectural Drawing—The complete working drawings for a small farm house including plans, elevations, specifications, and necessary details. Five credits. Any quarter.

CE 76. Advanced Topographical Drawing—Complete topographical maps, contours, lettering, coloring, etc. Three hours for one credit. Any quarter.

SURVEYING

CE 81. Plane Surveying—Use of tape, transit level, compass, etc., in field problems and traverses. Differential and profile leveling, plotting, mapping, and care of instruments used by engineers. Fall quarter. Three credits.

Lecture hour to be arranged. Lab T. Th. or M. W., 2:00 to 5:00, 204 Eng. Bldg. Feldman

CE 82. Plane Surveying—Topographical surveying, hydrographic surveying and some rural and city surveying. Prerequisite, Trigonometry. Spring quarter. Three credits.

Lecture hour to be arranged. Lab. M. W. or T. Th. 2:00 to 5:00.

CE 83. Mapping—Practice in the mapping of the various kinds of surveys that may be encountered by the engineer. Winter quarter.

Lab. M. T. Th., 2:00 to 5:00, 307 Eng. Bldg. Feldmann

CE 181. Advanced Surveying—Instructions and practice in the application of surveying methods used in the layout and construction of canals, roads, railroads and other engineering works. Prerequisite, CE 81 and 82. Spring quarter. Five credits.

Lec. M. W. F., 9:00, Lab. M. W., 2:00 to 5:00, 203 Eng. Bldg. West

GENERAL

CE 190. Contracts and Specifications—The form and essential considerations in drawing up engineering contracts and specifications. Fall quarter. Three credits.

Lec. T. Th. S., 9:00, 203 Eng. Bldg. West

CE 192. Water Supply—Surface and underground waters, storage, waterworks, pipe lines, pumping, etc. Fall quarter. Three credits.

CE 193. Sewage Purification and Disposal—Spring quarter. Three credits.


CE 196. Heat and Power Machinery—Steam generation; fuels and combustion; construction and operation of boilers; elementary thermo-dynamics. Types, details and tests of steam engines, and gas engines. Measurement of power. Three credits.

CE 197. Electric Machinery—Principles of continuous and alternating currents; generators and motors; transmission and distribution; air compressors. Three credits.

AGRICULTURAL ENGINEERING

AE 1. Farm Surveying—For students of agriculture. Practice in the handling of surveying instruments that may be purchased by the average farmer. Running of ditch lines, grading and leveling of land, retracing of section lines, and laying out drains and buildings. Spring quarter. Three credits.

AE 2. Agricultural Drawing—The use and care of instruments and orthographic projection. Two credits.

AE 3. Agricultural Drawing—Farm structures in orthographic projection. Two credits. Prerequisite, CE 61.


AE 5. Landscape Drawing—For students of Horticulture. Two credits.

AE 6. Farm Structures—The arrangement, design and construction of barns, stables, poultry houses, silos and other farm structures. Prerequisites, CE 61 or 62. Winter quarter. Three credits.

AE 7. Poultry House Design—The plans and layout of the various types of structures used in Poultry Husbandry, complete layout of poultry ranch. Prerequisites, AE 1 or CE 61, and 62. Three credits. Any quarter.

AE 8. Barn and Stable Design—Various types of barns and sta-
bles, layouts and construction. Prerequisites, AE 6 or AE 2 and 3. Any quarter. Three credits.

T. Th. S., 9:00 to 12:00, 307 Ag. Eng.

Feldman.

AE 9. Concrete Construction for Agricultural Purposes—Various mixtures of cement and their uses; the use of concrete in making barns, water troughs, posts, etc. Spring quarter. Three credits.

Hours to be arranged.

AE 10. Planning of Farm Structures and Homes—The making of plans for farm buildings, including complete specifications, cost of materials and construction. Winter quarter.

Hours to be arranged.

AE 11. House Building and Contracting—Various methods of construction; the frame, two brick, three brick, stucco, single cement, block and stuccoed hollow tile; cost and economy of each; interior finishing. Winter quarter. Five credits.

AE 12. Irrigation and Drainage Practice—Water measurements, effect of soil and plants on time and frequency of irrigation, duty of water, design of farm ditches and preparation for farm drainage. These courses may be used as a major or minor in the Department of Agronomy. Summer quarter designed especially for high school instructors. Spring quarter. Three credits.

M. W., 11:00, Lab. 2:00 to 5:00.

F.

Israelsen

AE 101. Research in Irrigation and Drainage—Specially prepared undergraduate, or graduate students in civil or agricultural engineering may elect a problem in irrigation or drainage for investigation, subject to the approval of the professor in charge. Such investigations may be conducted at the college or elsewhere. The studies may be used as a basis for a thesis to meet in part the requirements for an advanced degree. Any quarter.

Credits and hours to be arranged.

Israelsen and Clyde

AE 13. Farm Motors—This course will cover the care, adjustment and lubrication of the automobile, tractor, the stationary gas engine, and the home lighting and water system, the care of this equipment when not in use, and precautions to be taken when preparing it for operation. It will also include bearings and bearing adjustment, babbitting and fitting of babbitted bearings, soldering and fundamental principles of power transmission by the use of belting and pulleys, care of belts and speed calculations. Fall quarter. Three credits.

T. Th., 2:00 to 5:00, 202 M. Arts.

Powell

AE 14. Farm Shop Repair Work—(See Wood Work Unit C) This course is especially arranged for agricultural students. The application of forging operations to repairs on the farm. The repairing of the following farm implements will be included in the course; the plow, wagon, harrow, hay rake, mowing machine, binder, header, etc., making and tempering punches and cold chisels, sharpening and tempering harrow teeth, picks, etc., Fall and Spring quarters. Two credits.

T. Th., 2:00 to 5:00, 107 M. Arts.
AE 15. Farm Machinery—A complete assembling, adjusting, care and repair of the various types of farm implements and farm machinery. Spring quarter. Three credits.  
_T. Th., 2:00 to 5:00, 205 M. Arts._  
**Powell**

_Fall, M. W. F., 2:00 to 5:00. Spring, T. Th., 8:00 to 11:00, 205 M. Arts._  
**Powell**

AE 102. Tractor Repair and Operation—An advanced course for men wishing to specialize in tractor service work. It includes field work, operating problems, trouble shooting, and repairs. Fall quarter. Four credits.  
_T. Th. S., 8:00 to 11:00, 205 M. Arts._  
**Powell**

AE 103. Farm Machinery Operation and Repair—This course given in the summer quarter for High School teachers, who are preparing to teach this subject.  
_Daily, hours to be arranged._  
**Powell**

**MECHANIC ARTS**

**AUTO MECHANICS**

MA 1. Automobile Design and Construction—A course for beginners. This course is a thorough study of the design and construction and function of the various units and parts of the automobile, with special reference to gas engine principles and the mechanism involved. This course or its equivalent must be taken by all students who wish to specialize in any branch of automobile work. Fall quarter. Four credits.  
_M. W. F., 8:00 to 11:00, 205 M. Arts._  
**Powell**

_M. W. F., 8:00 to 11:00, 204 M. Arts._  
**Powell**

MA 3. Automobile Care and Maintenance—(Special). For Winter students only. This course is resigned especially for winter course or short term students who wish to learn enough about the care and operation of the automobile to enable them to make their own minor repairs and adjustments. Oils, lubrication, valve grinding, bearing cutting, fitting of piston rings, etc., will be taken up along with many other problems that the average owner has to be familiar with if he is going to do his own repairing and care for his car properly. Winter quarter. Four credits.  
_T. Th. S., 8:00 to 11:00, 205 M. Arts._  
**Powell**

Mechanic Arts 4, 101 and 102, are advanced courses. They must
be taken by all students who intend to specialize in garage management, garage practice, teaching or repairing. The course will cover the detailed theory, operation, advantages in design and construction of all modern makes of cars, and automobile equipment and appliances. Methods of systematic location of trouble, dismantling, repairing and assembling. Modern shop methods, tools and equipment. Prerequisites, Mechanical Arts 1 and 2 or their equivalent.

M. W. F., 8:00 to 11:00, 205 M. Arts.  

MA 5. Automobile Care, Adjustment and Lubrication—For automobile owners and anyone desiring a course that will enable them to do their own service work on automobiles, to enable them to operate the car in the most efficient way and to reduce to a minimum the cost of operation. It will include all phases of lubrication, carburation, brake adjustments, tappet adjustment and correct general principles of operation. Fall and Spring quarters. Two credits.  
M. W. F., 11:00 to 12:00, 206 M. Arts.  

M. W. F., 2:00 to 5:00, 205 M. Arts.  

MA 102. Automobile Repair—A continuation of MA 101. Includes shop methods and equipment. Prerequisite, MA 101. Spring quarter. Four Credits.  
M. W. F., 2:00 to 5:00, 205 M. Arts.  

MA 103. Gasoline Engine Carburetion and Carburetor—Internal combustion, engine fuels, and a thorough treatise on the principles of carburetion, the construction of carburetors and their relation to successful gas engine operation. Practice in repairing, overhauling and adjusting of carburetors, thorough study of the modern devices and improvements on new models will be taken up. Prerequisites, MA 4 and MA 111. Fall quarter. Three credits.  
T. Th., 2:00 to 5:00, 206 M. Arts.  

IGNITION, STARTING AND LIGHTING  
SIDNEY STOCK, Assistant Professor.  
All courses in Room 203, Mechanic Arts.  

MA 11. Elements of Electricity and Magnetism—A complete study of magnets, magnetism and the elementary principles of electricity. It includes a study of the units of electricity, their governing laws, power measurements, induction, electro magnets, sizes of wires and their carrying capacity, dry cells and their application to the automotive electrical industry. Required of all students specializing in Ignition, Starting and Lighting. Fall quarter. Four credits.  
T. Th. S., 8:00 to 11:00.  

MA 12. Ignition, Starting and Lighting—(Special) For winter quarter students only. This course is designed especially for short
term students who wish to learn enough about the electrical apparatus of the automobile to enable them to care for and locate electrical troubles and make minor repairs. It will include a study of spark plugs, high and low tension coils, ignition timing, high and low tension magnetos, battery ignition systems, care and testing of batteries and adjusting the charging rate of generators. Winter quarter. Four credits.

M. W. F., 8:00 to 11:00.

MA 13. Storage Batteries—The aim of this course is to furnish students the experience necessary to enable them to care for and handle a battery service station and repair shop. A thorough study of the different types and makes of batteries will be made. Practice will be given in testing, charging, discharging, disassembling and rebuilding and in the diagnosis of battery trouble. Prerequisite, MA 11. Four credits.

Sec. 1, Fall, M. W. F., 2:00 to 5:00.
Sec. 2, Winter, T. Th. S., 8:00 to 11:00.

MA 14. High and Low Tension Magnetos—A complete study of all low and high tension magnetos as to design, construction and operation. Prerequisite, MA 11. Spring quarter. Four credits.

T. Th. S., 8:00 to 11:00.

MA 111. Starting, Lighting and Ignition Systems—A complete study of the modern starting, lighting and ignition systems, their operation, design and construction; the direct current motor and generator; voltage and current regulation by vibration relays; third brush; battery cutouts; reading and drawing of wiring diagrams and electrical devices. Ample practice is given in disassembling and assembling, also trouble shooting. Testing and adjusting of the various units taken up to enable the students to handle such work in the repair shop. Prerequisite, MA 11, 13 and 14. Fall quarter. Four credits.

M. W. F., 8:00 to 11:00.

MA 112. Motor and Generator Repair and Armature Winding—A thorough study of direct current starting motors and generators; their construction, operation and repair including armature field and communicator testing; a systematic location and repair of all troubles encountered in the modern starting motors and generators; armature winding, as far as is practical for modern up-to-date garages and service stations. Prerequisites, Ignition 111. Winter quarter. Four credits.

M. W. F., 2:00 to 5:00.

MA 113. Ignition Trouble Work—The systematic location of trouble, service work, adjusting and minor repairs. Spring quarter. Four credits.

M. W. F., 8:00 to 11:00.

MA 114. Storage Battery Repair and Shop Management—This course should prepare a student to handle a storage battery service station and repair shop. Considerable practice in the diagnosis of
storage battery troubles, rebuilding of batteries, servicing of new batteries and winter storage methods. It will also include business methods and commercial management cost and installation of battery shop equipment. Four credits.

**T. Th., 1:00 to 5:00.**

**MA 115. Automotive Electrical Equipment and Shop Management**—This course should prepare a student to handle an Automotive Electrical service station and repair shop. Considerable practice in the wiring, trouble shooting and repair of all kinds of electrical equipment. Shop kinks and the development of skill, accuracy and speed to prepare the student better to compete with those already in the commercial field, will be given. Business methods and commercial management, also costs and proper installation of shop equipment. Prerequisite, Starting, Lighting and Ignition 112. Spring quarter. Three credits.

**M. W. F., 2:00 to 5:00.**

**OXY-ACETYLENE, ELECTRIC ARC AND RESISTANCE WELDING**

**MA 21. Oxy-acetylene and Electric Welding**—The oxy-acetylene welding process, equipment and gases, properties of the various metals, etc. Practice in the welding of cast iron, steel, aluminum, and other metals is given, also the proper methods of pre-heating and the preparation of cylinder clocks and other castings that are to be welded in the latter part of the course. A special fee of $25.00 is required for all students taking this course. Winter quarter. Three credits.

**T. Th., 2:00 to 5:00, 202 M. Arts.**

**MA 22. A continuation of course 21.**

*Time and credit to be arranged.*

**FORGING AND GENERAL BLACKSMITHING**

S. R. EGBERT, Assistant Professor.

An average of one-third of the time in all courses in forging is spent demonstrating and lecturing. All courses are given in the forge rooms, Mechanic Arts Building.

**MA 31, 32, 33. Forge Practice**—Forging, welding, tempering, tool making and other operations essential to forge shop work. Open to Vocational students. Fall, Winter and Spring quarters. Section 1, four credits. Sections 3 and 4, six credits.

*Sec. 1, M. W. F., 8:00 to 1:00.*

*Sec. 3 and 4, daily except Sat., 2:00 to 5:00.*

**MA 34, 35, 36. Forge Shop Operations**—Advanced and general repair work, including plow work, spring work, axle and tire setting,
and horseshoeing. Prerequisites, Forge Practice 31, 32, 33. Fall, Winter and Spring quarters. Section 1, six credits. Section 2, five credits.

Sec. 1, M. W. F., 8:00 to 11:00.
Sec 2, daily except Sat., 2:00 to 5:00.

MA 37, 38, 39. Select Work from Forge Practice 31, 32, 33—For automobile and tractor students who cannot spend each day in the shops, Fall, Winter and Spring quarters. Sections 1, 2, 3, four credits each quarter. Section 4, three credits each quarter.

Sec. 1, M. W. F., 8:00 to 11:00.
Sec. 2, M. W. F., 2:00 to 5:00.
Sec. 3, M. W. F., 2:00 to 5:00.
Sec. 4, T. Th. S., 2:00 to 5:00.

MA 40, 41, 42. Farm Shop Work—This course is especially arranged for students in agriculture. The application of forging operations to repair on the farm. The repairing of the following farm implements will be included in the course: plow, harrow, wagon, hay rake, mowing machine, binder, header, etc. Making and tempering punches and cold chisels, sharpening and tempering harrow teeth, picks, etc. Welding. Fall and Spring quarters. Two credits each quarter.

T. Th., 2:00 to 5:00.

MA 131. Advanced Shop Practice—Composition and head treatment of steel. The student may emphasize any line of blacksmithing work that suits his particular needs. Prerequisites, Forging 34, 35, 36. Five credits. Credit will be given for unfinished courses according to work done. Not less than two credits will be given.

Daily, 2:00 to 5:00.


T. Th., 2:00 to 5:00.

MA 133. Foundry—Operated for demonstration and the making of castings. If a sufficient number of students apply, the foundry will be run for instructional purposes also.

MACHINE WORK

AARON NEWEY, Associate Professor.

MA 51, 52, 53. Machine Shop Practice—Lathe, planer, shaper and drill press operations, the use of hand tools, laying out, making automobile and machine parts, and other operations essential to machine shop practice. The course includes assignments of reading on machine work subjects, and the application of mathematics to machine work.

These courses are open to Vocational students and may not be
used to fill requirements for major. Fall, Winter and Spring quarters. Six credits.

**Daily, 2:00 to 5:00.**

**Daily, 8:00 to 11:00, Winter quarter.**

**MA 54. Short Course**—Work selected from Machine Shop Practice 51. Four credits open to vocational students. Fall, Winter and Spring quarters.

**M. W. F., 8:00 to 11:00.**

**M. W. F., 2:00 to 5:00.**

**MA 55. Advanced Short Course**—Work selected from Machine Shop Practice 51 and 52. Four credits. Prerequisite, Short Course 54. Open to vocational students. Fall, Winter and Spring quarters.

**M. W. F., 8:00 to 11:00.**

**M. W. F., 2:00 to 5:00.**


**Daily, 2:00 to 4:00.**

**MA 151, 152, 153. Tool Making**—These courses include practice in making arbors, guages, taps, reamers, milling cutters, etc., and in designing and building special tools. Prerequisite, General Machine Work 58. Five credits.

**Daily, 2:00 to 5:00.**

Note: For unfinished courses, credits will be given according to work done provided the student re-registers. Not less than two credits will be given.

**WOODWORK**

**A. J. Hansen, Associate Professor; D. A. Swenson, Assistant Professor.**

The shops, located in the Mechanic Arts Building, are open daily from 8:00 to 12:00 a.m. and from 2:00 to 5:00 p.m. except Saturdays, when they are open from 8:00 to 12:00, only.

Regular five credit courses run five days a week, three hours a day, during Fall, Winter and Spring quarters. Three hours a week throughout the quarter are required for each credit.

All courses in Woodwork are open to vocational students.

**MA 61. Elementary Woodwork**—Scarving, mortising, dovetailing and jointing. Proper handling of tools is emphasized.

**MA 62. Elementary Woodwork**.—Panels, sashes, doors, etc., and rafter cutting; also thorough practice in tool sharpening.

**MA 63. Elementary Woodwork**—Feedhoppers, trestles, gates, grindstone frames, beehives, etc., and simple furniture.

These courses may not be used to fill requirements for major.

_Hansen._
MA 64, 65, 66. **Machine Work**—The use of wood working machinery, building of a modern work bench and tool chest, elementary and advanced wood turning. Prerequisite, MA 63.

MA 67, 68, 69. **Housebuilding and Cabinet Making**—Framing and roofing, door frames and window frames, French doors, casing up and finishing. Also furniture in fir and oak, staining and fuming, etc.

**FARM SHOP COURSE**

UNIT C. This course is given to meet the needs of the students in Agriculture, and embraces rope work, tin work, leather work, cold metal work, and farm wood work.

One week will be given to rope work, one week to soldering and tin work, two weeks to leather work, three weeks to cold metal work, and four weeks to farm woodwork and tool sharpening. Fall quarter. Three credits.

MA 70. **Farm Woodwork**—A special course for students in the Winter term. Embraces such problems in woodwork as are commonly met on the farm.

MA 71. **Wood Carving**—Simple problems in straight and curved lines, simple conventional ornaments and natural foliage. Time and credit to be arranged with the instructor.

MA 161, 162, 163. **Advanced Woodwork**—Special furniture, floor lamps, table lamps, nutbowls, etc. Mahogany and other fancy woods used. Veneering, inlaying and hand polishing. Prerequisite, MA 69.

MA 164. **Pattern Making**—Making of practical patterns for use in the college foundry. Time and credit to be arranged with the instructor.

MA 165. **Advanced Short Course**—For students who do not fit into the regular schedule. Prerequisite, work equivalent to that listed under courses numbered below 100.

MA 166. **Picture Framing**—Making of simple mouldings and frames, finishing, mat cutting, mounting and fitting. May be had in connection with the advanced courses in woodwork.

Time and credit to be arranged with the instructor.

MA 167. **Wood Finishing**—Paints, oils and their manufacture, water, oil and spirit stains. Varnishes, kinds and preparation. May be taken any quarter if six or more students apply. One lecture a week each quarter. One credit.

Time to be arranged with instructor.
HOME ECONOMICS

CARRIE C. DOZIER, JOHANNA MOEN, ALICE KEWLEY, Professors; CHARLOTTE DANCY, CHRISTINE B. CLAYTON, Assistant Professors; HELEN KNOTT, HARRIET MORGAN, Instructors.

FOODS AND DIETETICS

All students who elect Foods and Dietetics as their major are required to complete Foods 20, 30, 105, and 140.

5. Food Selection—A practical study of the relation of foods to the needs of the body. Natural food groups and their relation to each other will be treated through principles of menu making and the selection of foods at public eating places; the relation of food to family life and hospitality by a study of food combinations for special occasions, and the duties of host and hostess. Food fads and superstition. Open to men and women. Not open to Food and Dietetics majors. Winter quarter. Two credits.

T. Th., 9:00, 12 H. E. Dozier.

20, 21, 22. Food Preparation—Bread, cake, pastry, meat, salad and vegetable cookery will be emphasized. Fundamentals of meal planning and serving of food will be studied. Fall, Winter and Spring quarters. Two credits each quarter.

Lecture and Lab. Sec. 1, M. W., 2:00-5:00; Sec. 2, T. Th., 2:00-5:00; Sec. 3, T. Th., 10:00-1:00; 17 H. E. Morgan.


M. W. F., 8:00, 26, H. E. Dozier.

105, 106, 107. Food Engineering—Economic, sanitary, and aesthetic principles involved in the purchase, preparation, and serving of food. Food preservation and food poisoning. Essentials of well planned and efficient kitchen and dining room; furniture and equipment. Prerequisites, Junior College Foods Courses and Bacteriology I. Fall, Winter and Spring quarters. Three credits each quarter.

Lec. and Lab. M. W. F., 10:00 to 1:00, 26 H. E. Dozier and Morgan.


Lec. M. W. F., 9:00, Lab. M., 2:00 to 5:00, H. E. Dozier.
160. **Experimental Cookery**—Properly prepared students may select a problem in experimental cookery and receive one unit of credit for one three-hour laboratory period a week.  
*Time to be arranged.* 
*Dozier.*

190, 191, 192. **Special Study for Advanced Undergraduates**—Introduction to problems of nutrition through assigned reading and reports of current literature. Fall, Winter and Spring quarters. Two credits each quarter. Two consecutive hours once a week.  
*Time to be arranged.*  26 H. E. 
*Dozier.*

**GRADUATE COURSES**

*Time and credit to be arranged.*  
*Dozier.*

290, 291, 292. **Seminar**—Fall Winter and Spring quarters. Two credits each quarter. Two consecutive hours once a week.  
*Time to be arranged.*  26, H. E. 
*Dozier.*

**TEXTILES AND CLOTHING**

Students who elect Textiles and Clothing as their major are required to complete the following courses: Textiles and Clothing 10, 20, 30, 105, 115, 125, 160.

1, 2, 3. **Elementary Clothing**—This course aims to emphasize the relation of personality to dress through the study of art principles applied to clothing construction; pattern study, selection and construction of underclothing and dresses. Lectures and laboratory work. Two credits each quarter. Fall, Winter and Spring.  
*Sec. 1, W. F., 10-1:00; Sec. 2, T. Th., 2-5, 35 H. E.*  
*Knot.*

5. **Dress Appreciation**—This course aims to develop an appreciation of appropriateness and good design in dress. Clothing economics and hygiene will also be discussed. Two credits. Fall quarter.  
*T. Th., 11:00, 36 H. E.*  
*Knot.*

10, 11. **Clothing and Handwork**—This course includes the fundamental principles of drafting, design and pattern making; selection and construction of underwear, dresses, and household furnishings. Prerequisites, Art 1, 2, 3. Three credits each quarter. Fall, Winter and Spring quarters.  
*Sec. 1, Fall and Winter, Lec. T., 9:00, Lab. M. W., 2:00-5:00, 36 H. E. Knot.*  
*Sec. 2, Fall and Winter, Lec. T., 9:00, Lab. T. Th., 10:00-1:00, 33 H. E. Moen.*  
*Sec. 3, Winter and Spring, Lec. M., 1:00, Lab. M. W., 2:00-5:00, 33 H. E. Moen.*
20, 21. Economics of Textiles—Part 1 is a study of standard Textiles from the standpoint of growth, structure, preparation, design, and relative value of materials for clothing and house furnishing. Attention is given to the historical and economic phases of the textile industry.

Part 2 includes identification of fibres and substitute material by means of the microscope and physical tests. The aim of this work is to form a basis for intelligent purchase and use of materials. Prerequisites or parallel courses, Economics 1 and 2. Fall and Winter quarters. Three credits each quarter.

M. W. F., 9:00, 33 H. E. Moen.

30. Millinery—Study of individual problems by designing in paper; construction of frames; application of fundamental principles of various methods of covering foundations; flower making. Prerequisites or parallel courses, Art 1, 2, 3; Textiles 10, 11 or their equivalents. Three credits. Spring quarter.

M. W. F., 2:00 to 5:00, 36 H. E. Knott.

40. Dress Decoration—This course includes principles of design in relation to decoration of dress and household furnishings. Various means will be used in developing simple decorations for all types of garments, table linen, household furnishings. Outside work required. Prerequisites, Art 1, 2, 3 and Textiles 10, 11. Spring quarter. Three credits.

M. W. F., 10:00-12:00, 33 H. E. Moen.

105. History of Costume—A survey of ancient Egyptians, Grecian, Roman, early and modern French costumes. It aims to give practical information for the use of students and teachers of clothing and costume design. Three credits. Fall quarter.

M. W. F., 2:00, 33 H. E. Moen.

115. Costume Design—Art structure in its application to dress. Studies of personality and types of people; harmonies in spacing, rhythm, balance, color theory. Designing for various occasions. Prerequisites Art 1, 2, 3. Winter quarter. Three credits.

T. Th. S., 10:00-12:00, 36 H. E. Knott.

125. Applied Costume Design—This course gives practical training in the application of the principles of costume design, color harmony, texture, for different individuals and purposes. Practice in constructive design is given by modeling in cloth on the dress form. Spring quarter. Three credits.

T. Th. S., 10:00-1:00, 36 H. E. Knott.

160, 161, 162. Advanced Problems in Clothing.—Special application of principles of design and construction to tailored garments, afternoon and evening dresses, infants' and children's clothing. Dem-
onstrations and laboratory work. Prerequisites, Textiles 10, 11, 20, 105, 115, 125. Fall, Winter and Spring quarters. Two credits each quarter.

_T. Th., 2:00 to 5:00, 33 H. E._ Moen.

For closely related courses see:
Chemistry 109 (Chemistry of Textiles.) Students who elect Textiles and Clothing as their major are urged to take this course.

**HOUSEHOLD ADMINISTRATION**

Juniors who elect Household Administration as their major are required to complete the following courses: Household Administration 25, 122, 123, 125, 150. Students wishing to qualify as teachers of Household Administration must complete Education 120, 121 and 122.

10. **Survey in Home Economics**—Designed to serve as an introduction to College Home Economics; a survey of the field with study of the Home Economics Movement in America. Special emphasis on the wise use of time, energy and money. Open to all college women. Two credits. Fall quarter.

_Th. Sat., 11:00, 12 H. E._ Kewley.

20. **History of Domestic Architecture**—History of the house from primitive times to the present. Spring quarter. Three credits.

_Tu., Th., 10:00, 355 Main._ Fletcher.


(_Not given 1927-28._) Fletcher.

25. **Care of the Sick**—A laboratory course in home nursing, and first aid to the injured. The first hour is devoted to discussion; the last hours to demonstrations and practice. Reading of reference works and writing of special reports. Laboratory apron required. Prerequisite, Personal Hygiene 12. Fall quarter, repeated Spring quarter. Two credits.

_T. Th., 2:00-5:00, 11 H. E._ Dancy.

125. **Mothercraft**—The course includes the anatomy and physi­ology of the reproductive system. The care of the mother and child to the end of the first year. Prerequisite, Physiology 4. Winter quarter. Two credits.

_Lec. T. Th., 10:00, 12 H. E._ Dancy.

150. **Household Management**—A study of the organization and management of the household and of the ideals fundamental to wholesome family life. Laboratory projects will consist of the application of the underlying principles of household management dur-
ing the twelve weeks residence in the Home Economics Cottage. A fee of $6.00 each week will be charged each student while in residence. Open to seniors only. Prerequisites, Foods 105 and Textiles 20. Household Accounts recommended. Two lectures a week in addition to the laboratory projects in the cottage. Fall, Winter or Spring quarter. Five credits. 

**Lec. T. Th., 12:00, Fall quarter only, 26 H. E.**

For closely related courses see:
Accounting 107. (Household Accounts)
Art 122. (Home planning and Construction)
Art 123. (Interior Decorating)
THIRTY-FOURTH ANNUAL COMMENCEMENT

List of Graduates 1926-27

GRADUATE DIVISION

Graduates with the Degree of

MASTER OF ARTS

Agriculture

CARLSON, JOHN WILFORD
Thesis: A study of the Seasonal History of Alfalfa Flowers as Related to Seed Production.

HARMON, FRANK NELSON
Thesis: Resistance of Strawberries to Alkali.

Agricultural Engineering

FELDMAN, EDMUND BURKE

Basic Arts and Sciences

CLARK, HEBER DON CARLOS
Thesis: Native Musical Talent and Intelligence.

OSMOND, CHARLES ANSON

RICHARDS, LORENZO ADOLPH
Thesis: Capillary Potential and Its Possible Usefulness to Plant Investigators.

SARGENT, DAVID LEROY

SMITH, CLARENCE E.
SORENSON, CHARLES JAMES

TANNER, ARTHUR E.
Thesis: Methods of Teaching Natural Science in Junior High Schools.

Commerce and Business Administration

OWENS, WILLIAM WHITE
Thesis: The Marketing of Whole Milk in Salt Lake City, and Ogden, Utah.

UNDERGRADUATE DIVISION
Graduates with the Degree of Bachelor of Science

Agriculture

Cates, Eldon M.
Clark, Parley G.
Cox, Byron G.
Gardner, Anthony S.
Gills, Edward W.
Hamilton, Melvin S.
Hull, Robert Rigby
Kingsford, Kenneth
Matley, Mark A.

Peterson, Charles Newell
Peterson, Harold Monroe
Pratt, Joseph Wilcken
Price, Harold Harmon
Wadsworth, Harold Maughan
Wilson, LeMoyne
Winn, D. Sheldon
Wright, Ianthus

Agricultural Engineering

Affleck, Doyle
Christiansen, Jerald E.
Ewing, Matt
Gardner, David I.

Moser, Erwin Ulrich
Nuffer, Lloyd J.
Reamsnider, Dice
Wilson, Wilburn Joseph

Mechanic Arts

Brown, Harold J.
Denison, J. Melyn
Farrar, Ralph
Layton, Harold Hall

Olsen, Harold Hugo
Pulley, Orion Sylvester
Victor, R. M.

Basic Arts and Sciences

Abersold, John Narvel
Beaumont, Ellen
Budge, Rush Clare
Cheney, Wayne LaSalle
Clarke, L. Floyd

Clark, Myrol G.
Darley, Merrill Maughan
Foxley, Edward G.
Geddes, Faung
Gibbs, H. Lee
Basic Arts and Sciences (Continued)

Gordon, Coral
Hall, Walter C.
Hansen, Norma
Harris, Evan
Harris, Joseph Reuel
Harris, George McGee
Henderson, Anna Louise
Hunt, Ester J.
Hunt, Sheldon Ross
Jenkins, Edyth
Jensen, Alberta Day
Jeppe sen, Donald J.
Love, Vernon R.
Mason, Veda
Matthews, Myrtis
Maughan, Reese
Merrill, Asa J.
Merrill, Bessie Austin
Merrill, LaRue Hendricks
Merrill, Leah Dudley
Nielsen, Florence Jennie
Packard, Ivan
Peterson, Kirma Parkinson
Sanders, Newell V.
Shaw, Eliz abeth Dee
Smith, J. Russell
Stauffer, Lynn Hughes
Swinyard, William Owen
Syme, Louise
Syphus, Elizabeth Tullis
Thomas, Ellen Bickmore
Towsley, Gay Vernon
Walker, M. Mable
Wright, Golden Pratt
Zo Bell, Claude E.

Commerce and Business Administration

Abplanalp, William
Adams, Verena J.
Allen, Lloyd E.
Bickmore, John LeRoy
Bollschweiler, Allen F.
Burnett, Elmer James
Coles, Elverne John
Collett, Wells F.
Curtis, Ray Barber
Daniels, LaVern
Fogelberg, Nephtune
Geddes, William S.
Green, Thomas Francis
Hansen, Asael Tanner
Havertz, Joseph Jr.
Hendricks, Caroline McAlister
Hogan, Fred DeBois
Horsley, Philip B.
Hurren, David G.
Jenkins, Kurt Lorin
Lee, Ernest R.
Leishman, Robert B.
McKellips, Marion Emery
Miles, Ferris Wakefield
Monson, Roland Parkinson
Monson, Brigham Cyril
Monson, John Paul
Mouritsen, Leah
Murray, Evan Bailey
Palmer, E. Darrell
Pocock, C. Lester
Reece, James Sterling
Rosengreen, Eldon J.
Smith, Kenneth Edwards
Symons, Joseph N.
Wittwer, A. LaVerne Tullis
Wyatt, Sidney L.

Home Economics

Adams, Armenia
Bahen, Alice
Eames, Ilah
Faylor, Thelma Oral
Harris, Luella
Henrie, Leone Call
Hunter, Genevieve
Jenkins, Alice Gertrude
Johnson, Edythe C.
Larson, Constance
McKinnon, Arla
North, Vera Althea
Packer, Ora
Peacock, Mildred B.
Rice, Jane
Sanford, Susie Helen
Stoker, Bertha S.
Walker, Verna
Graduation With Honors

Christiansen, Jerald E.—Irrigation. Stauffer, Lynn Hughes—Physics.

OFFICERS RESERVE CORPS OF THE ARMY OF THE UNITED STATES

Second Lieutenant, Coast Artillery Corps

Abersold, John Narvel
Anderson, Algot Edgar
Bollschweiler, Allen F.
Burgoyne, Alma C.
Collett, Wells F.
Gills, Edward W.
Harris, Evan

Lee, Ernest R.
Miles, Ferris W.
Smith, Kenneth E.
Smith, J. Russell
Wadsworth, Harold M.
Walther, William C.

HONORS, 1926-27

SCHOLARSHIP A'S

Jerald Christiansen
Donald Jeppeson
Bessie Austin Merrill
Orion Pulley

Lynn Stauffer
Golden Pratt Wright
Claude Zobell

HONORABLE MENTION

David L. Sargent
Neptune Fogelberg

Caroline M. Hendricks
Leah Mouritsen

DEBATING AND ORATORY

Golden Wright
Leland Skanchy
Louise Shepherd
Gwyn Rouche
Leah Mortisen

Roland Monson
Leora Tarbet
Elsie Wyatt
Abbie Schowles
Alden Lillywhite

Laura Bankhead
Miriam Maycock
Charles Harding
Ronald Flamm
Serge Benson

The Hendricks Medal Won by:

ELDON REX

The Sons of the American Revolution Medal Won by:

GOLDEN WRIGHT

SCHOLARSHIPS

The following students were awarded the Johansen Scholarships for 1927-28.

Verda Dowdle
Scott Nelson

Alden Lillywhite
STUDENT OFFICERS

Frank Christensen                      President
Bertha Stoker                          Vice-President
Hortense Swendsen                      Secretary
Merrill Darley                         Editor, "Student Life"
Daken Broadhead                        Business Manager, "Student Life"
Fred Hogan                             Editor-in-Chief, "Buzzer"
Sheldon Winn                           Business Manager, "Buzzer"

SPECIAL AWARDS

The Citizenship Award, a medal given for distinguished College Citizenship, was awarded to Golden P. Wright.

The Reserve Officers' Training Corps Medal, given to the member of the R. O. T. C. who best represents the ideals of the Corps, was awarded to Kenneth Smith.

The William Peterson Science Medal, given to the author of the best paper on some selected scientific subject, was won by Harold M. Peterson.

The Vernon Medal, given to the writer of the best short story written around a western setting, was won by Perce Barrows.
LIST OF STUDENTS

In the following list "a" stands for agriculture; "aema" for agricultural engineering and mechanic arts; "bs" for basic arts and science; "ho" for home economics; "c" for commerce; "ss" for summer school; "G" for Graduate; "S" for Senior; "J" for Junior; "So" for Sophomore; "V" for Vocational; "Fed" for Federal; "Un" for unclassified.

<table>
<thead>
<tr>
<th>Name</th>
<th>Major</th>
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<td>Abbott, James</td>
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<td>Abersold, John N.</td>
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Dozier, Carrie C. bas-G-ss Logan

Drury, Livinia bas-s-ss Provo

Dudley, Thelma ho-So ... Magrath, Canada

Duke, Alma J-ss... Logan

Duke, Roe c-f-ss... Logan

Dunkley, Margaret bas-F-ss Richmond

Dunn, Harold c-So-ss... Logan

Dunn, Ione bas-F-ss Brigham

Dunn, Leona bas-ss Corinne

Dunn, Lewis bas-F-ss Logan

Dunn, Lois bas-So-ss Brigham

Dunn, Meryl c-f-ss... Logan

Durran, M. S. a-So-ss... Logan

Dutson, Ernest a-F-ss Hickley

Eames, Ilah ho-Sr-ss Preston, Id.

Eames, Ivo a-F-ss... Franklin, Id.

Eardley, Lucille c-ss Salt Lake City

Earl, Amy ho-ss... Overton, Nev.

Earley, Lucy bas-F-ss Laketown

Earley, Mae bas-ss-ss Laketown

Eckersell, Ondulyn bas-So-ss... Logan

Edmonds, Gomer N. aema-V-ss Manti

Edwards, Leah bas-So-ss Salt Lake City

Egbert, Alta bas-ss-ss Tetonia, Id.

Egbert, S. R. bas-ss-ss Logan

Eliasen, Afton Y. bas-J-ss Logan

Eliasen, Drue bas-G-ss Logan

Eliasen, Lila bas-So-ss Hyrum

Eliasen, Nevell bas-F-ss Logan

Eliasen, Orville L. bas-So-ss Logan

Ellis, Corline Wood bas-F-ss Cedar City

Ellis, Evan J. aema-ss-ss Vernal

Ellis, Rachel bas-V-ss Logan

Ellsworth, H. M. c-So-ss Logan

Ellsworth, Reo c-So-ss Logan

England, David bas-F-ss Logan

England, Milton bas-F-ss Logan

Ensign, Coleman B. bas-So-ss Logan

Ensign, Olive bas-So-ss Logan

Everson, Sylvan C-J-ss Logan

Espin, Wm. H. a-F-ss Orderville

Evans, Afton ho-F-ss Logan

Evans, Davis c-F-ss Logan

Evans, Elvin E. c-J-ss Logan

Evans, Margaret R. c-V-ss Logan

Evans, Peter aema-So-ss-ss Garland

Everton, Wallace c-So-ss Logan

Ewing, Matt aema-S-ss Smithfield

Fairbanks, Neil aema-ss-ss Fielding

Farrar, Elmer a-F-ss Sandy

Farrar, Ralph a-F-ss Sandy

Faussett, Adelbert a-F-ss Price

Fawcett, Irma bas-F-ss... Lund, Nev.

Faylor, Orpha bas-So-ss Logan

Faylor, Thelma ho-S-ss Logan

Feldman, Edmund aema-Un-ss-ss Logan

Feldman, Marv bas-Un-ss... Blackfoot, Id.

Fenske, Maude c-So-ss Logan

Fenton, Robert L. a-G-ss Parowan

Fife, Coy ho-F-ss Providence

Fife, Karl bas-J-ss Logan

Fife, Mervine bas-J-ss Logan

Fillerup, Gwenevere bas-F-ss Logan

Fillerup, Irv bas-J-ss-ss Logan

Fingerle, Christian C. a-V-ss Salt Lake City

Finlinson, Alton ho-So-ss... Leamington

Fish, Lucretia bas-So-ss Logan

Fish, Murland, W. bas-G-ss Logan

Fisher, Asael bas-ss-ss Fillmore

Fisher, Emma ho-Huntingdon

Fisher, Helen Rebecca bas-ss-ss Twin Falls Idaho.

Flamm, Ronald bas-F-ss Logan

Fletcher, Herbert bas-F-ss Logan

Fletcher, Irene T. bas-So-ss Ogden

Fluharty, Arthur L. bas-ss-ss Eagle, Id.

Fogelberg, Neph gute c-Sr-ss Logan

Fogelberg, Thelma bas-So-ss-ss Logan

Fonesbeck, Alice bas-F-ss Logan

Fonesbeck, Carl M. aema-So-ss Logan

Fonesbeck, M. Margreth bas-S-ss-ss Howell

Forrester, Jas. S. bas-J-ss... Richmond

Forrester, Robert bas-So-ss-ss Richmond

Foster, Ida bas-ss... Hyrum

Foster, Stella bas-ss-ss Hyrum

Fowler, H. C. bas-ss... Rexburg, Id.

Fox, Lorene bas-ss-ss Salt Lake City

Foxley, E. G. bas-S-ss-ss Logan

Foxley, Mary bas-So-ss Logan

Framke, Minnie C. bas-F-ss Providence

Frandsen, Louise bas-So-ss Mt. Pleasant

Frankhouser, Fred c-So-ss Logan

Frazier, Maude bas-S-ss-ss Las Vegas, N. M.

Fredrick, Hilda ho-So-ss Logan

Fredrickson, Earl A. c-J-ss Logan

Frederickson, Greta bas-F-ss Logan

Freeman, Alf. L. bas-F-ss... Brigham

Frees, Lewis C. a-F-ss Logan

Fretwell, Fred c-F-ss Ogden

Frost, Ivan A-F-ss Riverton

Froyd, Beryl So-bas-ss Cedar City

Froyd, Elna ho-G-ss-ss Cedar City

Froyd, Maxine ho-So-ss Cedar City

Frye, Clifford bas-F-ss Brigham

Fuhriman, Relda bas-F-ss Providence

Fuller, John S. bas-F-ss-Chandler, Ariz.

Fuller, Nora bas-So-ss Huntsville

Funk, Gayla bas-J-ss祁hmond

Furr, Carl J. bas-So-ss Salt Lake City

Gadd, Alton aema So-ss-ss Nephi

Gadd, Fred L. aema-So-ss Nephi

Gابرلا، C. Layton, bas-So-ss-ss Ogden

Gallett, Hurtle bas-So-ss Pocatello, Id.

Galloway, Fontella, bas-J-ss Roosevelt

Gardner, Alma aema-ss-ss Logan

Gardner, A. S. a-ss-ss Logan

Gardner, Bertrand bas-F-ss-ss West Jordan

Gardner, Christabel bas-J-ss Liberty

Gardner, Clark A. F-ss-ss Avon

Gardner, David I. aema-S-ss-ss Sandy

Gardner, Ernest aema-ss-ss Logan

Gardner, Melba ho-So-ss Sandy

Gardner, Melvin A. a-So-ss Blackfoot, Id.

Gardner, Nathan B. bas-F-ss Logan

Gardner, Robert a-G-ss Logan

Garner, Rosabelle ho-So-ss Ogden

Garrett, E. B. A-G-ss Lethbridge

Garrett, Wanda c-So-ss-ss Nephi

Geddes, Faun bas-S-ss Preston, Id.

Gesell, Homer L. bas-So-ss-ss Logan

Geddes, Willard c-So-ss Randolph

Geddes, Wm. c-S-ss Logan

Gessel, Veda c-ss-ss Logan

Gibbons, Lydia bas-So-ss... Garden City
Gibbons, Robert Bas-Ss.  Logan
Gibbons, Virgil aema-V  Logan
Gibbs, Don D. Bas-G-ss  Kimberly, Id.
Gibbs, Lee Bas-Sr-ss  Brigham
Gibbs, Geo Snow Bas-Ss  Salt Lake
Gibby, Adrian Bas-Sr-ss  Roy
Gibby, T. G. Bas-So  Roy
Gibbons, B. O. Bas-So  Nephi
Gibson, C. L. C-F  Nephi
Gibson, Owen N. Bas-So  Nephi
Gibson, Letha Bas-F  Logan
Gill, Edward W. Agr-S  Sandy
Glover, Morris C-F  Brigham
Godfrey, Agnes Bas-F  Clarkston
Goldsmith, Claire Ho-G-ss  Montrose, Colo.
Goody, Tellma C-So  Clarkston
Goodsell, Orval Bas-F  Logan
Gordon, Coral, Bas-Ss  Smithfield
Grant, Oliver Bas-J  Santa Clara
Graham, Gladyss Bas-SS  Fairview
Grant, Raymond C-F  Logan
Gray, Bruce Aema-F  Cleveland, Id.
Greaves, Cyrus W. C-So  Preston, Id.
Greaves, Dudley Bas-So-ss  Logan
Greaves, Ethelyn O Bas-G-ss  Logan
Greaves, Florence Bas-So-ss  Logan
Greaves, J. E. Bas-ss  Logan
Green, Emma Ho-J  Tooele
Greene, Bessie Bas-SS  Smithfield
Greene, Flora Bas-J  Logan
Greene, Julian Bas-V  Logan
Green, Nathan Bas-J  Logan
Green, Nina S. Bas-ss  Lovelock, Nev.
Green, Thomas C-ss  Logan
Greene, Vira Bas-F  Smithfield
Greenhalgh, J. E. Bas-J  Nephi
Gregory, Robert Aema-Logan
Griffin, Bessie C-So  Logan
Griffin, Charles C-So  Logan
Griffin, Herbert Bas-F  Ogden
Griffin, Louis H. C-G-ss  Ogden
Griffin, Mina Bas-So-ss  Newton
Griffin, Ruth B. Bas-J-ss  Escalante,
Griffin, Spencer Bas-ss  Newton
Griffiths, Mary Bas-F  Smithfield
Grimaud, Orvid L. Aema-V  Logan
Groebli, Anna C-F  Logan
Grover, Roscoe W. Bas-ss  Nephi
Gubler, Laura Bas-F-ss  Santa Clara
Gunnerson, Beatrice C-F  Logan
Gunnell, Elsie Bas-ss  Wellington
Gunnell, Merrill Bas-F  Wellington
Guymon, Lee a-So  Huntington
Hacking, J. Ferron a-F  Vernal
Haight, David B. c-J  Logan
Haight, Maybell C-ss  Oakley, Id.
Haight, Zina C-ss  Oakley, Id.
Hair, William Bas-ss  Oakley, Id.
Hale, Leah Ho-F  Smithfield
Hales, Reed B. Aema-F  Pleasant Grove
Hall, Alvin a-F  Logan
Hall, Leonard Bas-So-ss  Logan
Hall, Stanley C-F  Ogden
Hall, H. Loyal C-F  Logan
Hall, Walter C. Bas-S  Salt Lake
Halverson, Leon C-F  Logan
Hamilton, Melvin a-S  Salt Lake
Hammerly, Fred Bas-G  Monticello, Wis.
Hammond, Darvel C-So  Providence
Hammond, Grant P. Bas-F  Logan
Hammond, W. W. Bas-So  Providence
Hammond, Venna C-ss  Providence
Hancey, Carlos C-J  Hyde Park
Hancey, J. E. Bas-ss  Logan
Hanks, Ellen Ho-So  Tooele
Hanks, Melba Bas-F  La Grande, Oregon
Hanks, Urban V. Bas-So  Bicknell
Hansen, Alice Bas-So  Mt. Pleasant
Hansen, Allen Bas-So  Tremonton
Hansen, Ammon Bas-So  Logan
Hansen, Asael T. C-So-ss  Collinston
Hansen, Anna C-ss  Ogden
Hansen, Bernice Bas-F  Richfield
Hansen, Bessie Ho-So  Logan
Hansen, Clarence C-J  Logan
Hansen, Clarence J. a-G  Salt Lake
Hansen, Eldon Bas-F  Logan
Hansen, Enoc L. a-J  Payson
Hansen, Gwendolyn Bas-So  Providence
Hansen, J. Elwood Bas-So  Providence
Hansen, Leah Bas-F  Logan
Hansen, Marguerite Ho-So  Salt Lake
Hansen, Myron T. a-G  Collinston
Hansen, NADine Bas-F  Rigby, Id.
Hansen, Norma Bas-S  Logan
Hansen, Othello T. Bas-So  Collinston
Hansen, Virgil Aema-V  Logan
Hansen, Virginia Bas-So-ss  Cornish
Hansen, Wynnna Bas-F  Providence
Harding, Charles L. C-J  Payson
Harding, Margaret Bas-F  Logan
Hardy, Leon D. C-G-ss  Logan
Hardy, Wildo LaMar ho-ss  Vernal
Harmon, Mont Bas-ss  Brigham
Haroldson, Eva Bas-J-ss  Idaho Falls, Id.
Harris, Alvin C-So-ss  Portage
Harris, Evan Bas-S  Richmond
Harris, George Bas-S  Richmond
Harris, Lindon Bas-F  Logan
Harris, Lloyd Bas-F  Tremonton
Harris, Luella Ho-S  Tremonton
Harris, Marlene Ho-F  Richmond
Harris, Ruell Bas-S  Logan
Harris, Ulalla Bas-So-ss  Portage
Harris, Vernal Bas-J  Tremonton
Hart, Emma Maria Bas-ss  Spring Valley, Minn.
Hart, Ruth Bas-So  Bloomington
Hartvigson, Elmer Aema-So  Hyrum
Hartvigson, Milton Bas-So  Hyrum
Harward, Bert Bas-G-ss  Willard
Haskell, C. Ga-Un  Milford
Haskell, Mrs. Mabel a-UN  Milford
Haslam, George C-So  Logan
Hatch, Leah Bas-So-ss  Logan
Hatch, Lorenzo H. Bas-F-ss  Salt Lake
Hatch, Thora Bas-F  Logan
HAVertz, Joseph C-ss  Logan
Hawkes, Earl C-So  Preston
Hawkes, Selma Ho-F  Preston
Hawkes, Stanton M. a-So  Logan
Hawkins, John F. Bas-F  Logan
Hawkins, Mabel Bas-F  Logan
Hawley, Warren Aema-So  Richfield
Haws, Lynn M. Aema-So  Colonia Juarez, Mexico.
Hayward, Ira N. bas-G-ss        Logan
Hayward, William B. c-F        Logan
Heggie, Andrew L. aema-F        Clarkston
Heggie, Felecia ho-G        Clarkston
Heywood, Karl a-F        Pangich
Holbrook, Mrs. Caroline M. c-S        Logan
Henderson, George R. a-F        Joseph
Henderson, Louis bas-ss        Salt Lake
Hendricks, Minnie bas-So-ss        Rexburg, Idaho
Herman, Ione bas-F-ss        Preston, Nev.
Hess, Alvin bas-So        Fielding
Hesser, Gladys L. b...        Bountiful
Heywood, James a-F        Pangich
Heywood, Karl a-F        Pangich
Hickman, Thorval bas-F        Logan
Hill, Leland K. aema-J        Wellsville
Hill, Reta ho-So        Wellsville
Hill, Mrs. R. L. bas-ss        Logan
Hilt, R. L. bas-ss
Hilton, Hyrum bas-G-ss        Parowan
Hirst, Alta ho-So-ss        Logan
Hirst, C. Merlin bas-G        Logan
Hodges, Evelyn, bas-ss        Logan
Hodges, Leone bas-So        Garden City
Hodges, Nathaniel M. aema-V        Smithfield
Hogan, F. D. c-S        Lewiston
Hogensen, Helen bas-F        Logan
Hogensen, Lillian bas-So        Lewiston
Hogensen, Dolores bas-J-ss        Logan
Hogensen, J. C. bas-G-ss        Logan
Holland, Wanda c-F        Brigham
Holgren, DeEsta ho-F        Tremonton
Holmes, J. Mark aema-J        Logan
Holton, Parley bas-So        Brigham
Horne, Aaron bas-S-ss        Smithfield
Horsley, Ernest M. c-F        Brigham
Horsely, Phillip c-S        Price
Horton, Grace Ella bas-ss        Oakley
Howard, Owena T. a-So        Logan
Howell, Minnie Lou bas-J        Layton, Mo.
Howell, Spencer c-F-ss        Logan
Hughes, Melvina c-F        Ogden
Hughes, Durrell bas-F        Mendon
Hull, Robert R. a-So        Hooper
Hulme, Ben F. a-So-ss        Logan
Hulme, Helen, bas-So        Logan
Hulse, Selwyn H. bas-So        Millville
Humphreys, L. R. bas-G-ss        Logan
Hunter, Mrs. Ester J. bas-S-ss        Logan
Hunt, Forrest c-F        Logan
Hunter, Alfred aema-F        Logan
Hunter, S. Ross bas-J        Logan
Hunter, Genevieve ho-S        Logan
Hunter, Lee aema-V        Logan
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Hurren, Eulalia ho-J        Hyde Park
Hurtt, Errol c-J        Logan
Huss, Kathryn bas-ss        Ogden
Hutchinson, Jesse bas-So-ss        Logan
Hutchings, M. P. bas-ss        Logan
Hutchinson, Orson aema-V        Logan
Hyde, David G. bas-ss        Rupert, Id.
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Hyde, Irma bas-F        Hyde Park
Hyde, Orlo C. bas-ss        Lewiston
Hyde, Verne bas-So-ss        Downey
Hyde, W. Parry bas-So        Hyde Park
Hyman, A. C. a-So        Logan
Ingram, Leo a-So        Nephi
Irwin, Grace bas-So        Laketown
Jensen, T. B. bas-ss        Ephraim
Jensen, Alice ho-F        Hyrum
Jensen, Edith aema-V        Hyrum
Jensen, Stella bas-ss        Hyrum
Jensen, Vernon L. bas-ss        Hyrum
Jervis, H. Leon bas-ss        Salina
Jervis, Ruth A. bas-G-ss        American Fork
Jepsen, Carol bas-So        Logan
Jackson, Elgin H. c-F        Logan
Jackson, Verna bas-So        Logan
Jackson, Victor L. bas-ss        Keetley
Jacobs, Natalie bas-ss        Logan
Jabot, Renee bas-So        Kemmerer, Wyo.
Jarmon, Cornell c-F        Kaysville
Jarrett, Ethel bas-F        Nephi
Jenkins, Alice ho-S        Freedom
Jenkins, Edyth bas-S        Logan
Jenkins, Eva ho-So        Logan
Jenkins, Kurt Loran c-S        Logan
Jenkins, Lawrance bas-ss        Plain City
Jennings, D. S. bas-G-ss        Logan
Jensen, Ada bas-ss        Orangeville
Jensen, Albert bas-S-ss        Logan
Jensen, C. Ervin bas-ss        Phoenix, Ariz.
Jensen, Dewane a-So        Hyrum
Jensen, Earl c-So        Logan
Jensen, Edmond, bas-F        Reedsburg
Jensen, Grace bas-ss        Brigham
Jensen, Helen bas-ss        Brigham
Jensen, James bas-G-ss        Brigham
Jensen, Janice c-So        Richfield
Jensen, Joseph R. bas-So        Logan
Jensen, Mark aema-V        Logan
Jensen, Norman c-So        Mantua
Jensen, Oginda c-ss        Providence
Jensen, Phyllis bas-So        Brigham
Jensen, Russell bas-F        Springville
Jensen, Thelma bas-ss        Brigham
Jensen, Una bas-F        Smithfield
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Johnson, Oswald c-J .......... Picoon Grove
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Jones, Effie ho-ss .......... Cedar City
Jones, Evelyn ho-So .......... Spanish Fork
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Jones, Martha bas-So .......... Newton
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Last, Charles H. aema-ff .......... Garland
Laub, Emma K. bas-G-ss .......... Logan
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Law, Reuben D. bas-S-ss .......... Tremonton
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Layton, Paul C. bas-So-ss .......... Kaysville
Leatham, Marguerite bas-F-ss .......... Ophir
Leatham, Ruby ho-So-ss .......... Wellsville
Lee, Ernest R. c-Sr .......... Hyde Park
Lee, Eva bas-ss .......... Hyde Park
Lee, Rozanna, bas-F-ss-ss .......... Brigham City
Leigh, LaVera ho-J-ss .......... Cedar City
Leishman, Ernest a-F-ss-ss .......... Wellsville
Leishman, Robert B. c-S-ss-ss .......... Wellsville
Lemon, Anna bas-So-ss .......... Logan
Lemon, Genoa bas-J-ss-ss .......... Brigham City
Lenkersdorfer, Clara ho-F-ss-ss .......... Logan
Lenkersdorfer, Lelah ho-F-ss-ss .......... Logan
Lenkersdorfer, Perney ho-So-ss-ss .......... Logan
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Richardson, Persyl bas-So ........................ Sandy
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Robinson, L. Ray bas-ss ........................ Brigham
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Smith, Lyman c-So ................................ Logan
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Watkins, Grace bas-So..................Brigham
Watkins, Lyde a-So........................Tremonton
Watkins, Norma bas-G-ss.................Logan
Watkins, W. B. aema-V....................Logan
Webb, Delmar bas-F.......................Richmond
Webster, Frank c-F........................Salt Lake
Webster, M. J. bas-J-bas-F..............Lund, Nev.
Wehse, F. W. C-J..........................Logan
Welch, Golden M. c-F....................Logan
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Wennergren, Arthur C. aema-F...........Logan
West, Anna ho-F................................Afton, Wyo.
West, Frank L. bas-G-ss..................Logan
West, Marjorie ho-F.......................Logan
West, Opal bas-J-ss......................Pleasant Grove
West, Ray B., Jr. aema-F.................Logan
West, Roy C-J................................Logan
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Weston, Norma bas-So....................Laketown
Weston, Rulon J. bas-J-ss..............Laketown
Whatcott, Clemouth L. bas-J-ss.........Logan
Wheatley, Estelle bas-So................Brigham
Wheeler, Bessie bas-ss..................Lewiston
Wheeler, Fontella bas-F..................Lewiston
Whetston, Benton c-F....................Logan
Whipple, LaRue bas-ss...................Sunnyside, Nev.
Whit, Jos. F. C. a-F........................Paradise
Whiting, Ronald C. a-F..................Springville
Widdison, R. Eugene bas-ss.............Hooper
Widtsco, Leah D. bas-ss..................Salt Lake
Wight, Elva bas-So........................Brigham City
Wilcox, Hugh B. aema-F..................Layton
Williams, Agnes, ho-G-ss.................Logan
Williamson, David aema-F..............Pleasant Grove
Williams, Howard bas-So................Kaysville
Williams, Mayme c-ss....................Cedar City
Williams, Arthur bas-So................Kaysville
Willmore, Emma Rae ho-F................Logan
Wilson, Edna bas-So.....................Logan
Wilson, Gwynn aema-V...................Logan
Wilson, Harriett M. bas-ss............Fallon, Nev.
Wilson, LeMoynne a-ss..................Kaysville
Wilson, Wilburn J. aema-Sr ............Logan
Wingett, Lillia nbas-ss..................Spokane, Wa.
Winn, D. Sheldon a-J........................Nephi
Winn, Elva bas-F..........................Smithfield
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Winn, Glen R. bas-Sr-ss..................Smithfield
Winn, Jack bas-F.....................................Nephi
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*Includes one Federal student.

**SUMMARY OF 1926 SUMMER QUARTER REGISTRATION**

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**ENCAMPMENT AND SHORT COURSES**

*Farmers’ Encampment—Men...... 974  
  Women...... 1085  
  Total Registration at Encampment and Short Courses.... 2274

*In addition there were 1355 children.*
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