1925

General Catalogue 1925

Utah State University

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THE UTAH AGRICULTURAL COLLEGE has been designated by the War Department as an approved College for the maintenance of Reserve Officers' Training Corps. The College becomes, therefore, a training school for officers.

The graduates of the College, as experts in food production and conservation, in general agriculture and home economics, in commerce and in business, and in such technical work as chemistry, physics, bacteriology and branches of engineering, have gone in great numbers into everyday service and will be needed in still larger numbers in the future.
AERIAL VIEW OF THE CAMPUS OF THE UTAH AGRICULTURAL COLLEGE OF LOGAN

Home Economics Building

Plant

Farm Buildings

Smart Gymnasium

President's Residence

Chemistry Building

Experiment Station

Main Building

Plant Industry Building

Animal Husbandry Building

Mechanic Arts Building

Engineering Building

R. O. T. C. Garage

Auto Shop
Airplane View of the Campus of the Utah Agricultural College

This view of the campus of the Utah Agricultural College indicates, in a measure, the extensive plant of the Institution. The names of the various structures indicate in part the many fields of education covered by the College curricula. In addition to the Schools of Agriculture and Home Economics, the College maintains strong undergraduate and graduate courses in the Schools of Engineering, Mechanic Arts, Commerce and Business Administration, Basic Arts and Science and in the Department of Education.

The various buildings shown upon the airplane view house the following:

Part of the farm buildings show in the background. The Home Economics Cottage, the Cronquist Practice Farm and the North Logan Experimental Farm are all off the College Campus.
# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLLEGE CALENDAR</td>
<td>5</td>
</tr>
<tr>
<td>BOARD OF TRUSTEES</td>
<td>6</td>
</tr>
<tr>
<td>OFFICERS OF ADMINISTRATION AND INSTRUCTION</td>
<td>7</td>
</tr>
<tr>
<td>College Faculty</td>
<td>7</td>
</tr>
<tr>
<td>Extension Class Teachers</td>
<td>22</td>
</tr>
<tr>
<td>Standing Committees</td>
<td>23</td>
</tr>
<tr>
<td>Experiment Station Staff</td>
<td>24</td>
</tr>
<tr>
<td>Extension Division Staff</td>
<td>26</td>
</tr>
<tr>
<td>LOCATION</td>
<td>29</td>
</tr>
<tr>
<td>POLICY</td>
<td>30</td>
</tr>
<tr>
<td>HISTORY</td>
<td>30</td>
</tr>
<tr>
<td>GOVERNMENT</td>
<td>33</td>
</tr>
<tr>
<td>ADMISSION AND GRADUATION</td>
<td>35</td>
</tr>
<tr>
<td>THE JUNIOR COLLEGE</td>
<td>37</td>
</tr>
<tr>
<td>REQUIREMENTS FOR JUNIOR RANK</td>
<td>38</td>
</tr>
<tr>
<td>THE SENIOR COLLEGE</td>
<td>39</td>
</tr>
<tr>
<td>REQUIREMENTS FOR THE BACHELOR'S DEGREE</td>
<td>39</td>
</tr>
<tr>
<td>REQUIREMENTS FOR ADVANCED DEGREES</td>
<td>47</td>
</tr>
<tr>
<td>ORGANIZATION</td>
<td>48</td>
</tr>
<tr>
<td>Student Body Organization</td>
<td>49</td>
</tr>
<tr>
<td>Student Clubs</td>
<td>51</td>
</tr>
<tr>
<td>STUDENT EXPENSES</td>
<td>54</td>
</tr>
</tbody>
</table>
College Calendar for 1925-26

FALL QUARTER

September 28, Monday ............ Entrance examinations. Registration of former students and of new students admitted on certificates.
September 29, Tuesday ............ Instruction begins.
October 7, Wednesday ............ Assembly to announce scholarship awards.
November 11, Wednesday ........ Armistice Day (Half-Holiday).
November 26-29 (Inclusive) ..... Thanksgiving recess.
December 19, Saturday .......... Fall quarter ends.
December 20-Jan. 3 (Inclusive) .. Christmas recess.

WINTER QUARTER

January 4, Monday ............. Winter quarter begins.
February 22, Monday ........... Washington's birthday.
March 8, Monday ............... Founder's Day (Half-Holiday).
March 20, Saturday ............. Winter quarter ends.

SPRING QUARTER

March 22, Monday .............. Spring quarter begins.
April 19-24 ...................... Annual Vocational Conference and Club Leaders' School.
May 10, Monday............... Conferring of Scholarships and other awards.
May 24, Monday ............... Senior Chapel.
June 4, Friday ................. Spring quarter ends. Annual alumni business meeting and social.
June 5, Saturday .............. Commencement and alumni banquet and ball.
June 6, Sunday ............... Baccalaureate Sermon.

SUMMER QUARTER

June 14, Monday ............... Summer quarter begins
July 5, Monday ................. Independence Day.
July 23, Friday ................. First term ends.
July 26, Monday ............... Second term begins.
September 3, Friday .......... Summer quarter ends.
Board of Trustees

ANTHONY W. IVINS .................................................. Salt Lake City
C. G. ADNEY .................................................. Corrine
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.
Agriculture—J. R. Beus, John E. Griffin, Mrs. Lee Chas. Miller.
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, Lorenzo N. Stohl,
J. R. Beus.
Buildings and Grounds—Frederick P. Champ, Weston Vernon,
John E. Griffin.
Power, Heat, and Light—Roy Bullen, Lorenzo N. Stohl, H. E.
Crockett.
Branch Agricultural College—Wilford Day, Mrs. Lee Chas. 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—

†GEORGE WASHINGTON THATCHER....... Professor of Music
B. S., Utah Agricultural College, 1914, Student, New England Conservatory of Music; Graduate in Theory, Composition, and Orchestration, under Dr. Percy Goetschius; Special Music Study in Salt Lake City, Boston and New York, under Leading Masters. Professor of Music, Utah Agricultural College, 1905—.

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 Extension Division, 1924—.

*The College Council consists of the President and all members of the faculty with the rank of professor, associate professor or assistant professor.
†On leave of absence.
HYRUM JOHN FREDERICK......Professor of Veterinary Science

D. V. M., Iowa State College, 1905. Assistant Professor of Veterinary Science, Utah Agricultural College, 1905-06; On leave of absence for study in Europe, 1924-25; 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—.

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
Professor of Physics

B. S., Utah Agricultural College, 1904; Ph. D., University of Chicago, 1911. Graduate Student, Leland Stanford Junior University, 1904-05; Professor of Physics, Brigham Young University, 1905-06; Graduate Student, University of Chicago, 1906-07; Summers of 1906-07-10-11; 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—.

JOSEPH EAMES GREAVES...Professor of Bacteriology and Physiological Chemistry

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—.
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 Colorossi, 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; Vice-president, National Vocational Art and Industrial Federation, 1913-14; Director, Utah Art Institute, 1918-20, Professor, 1913—.

RAY BENEDICT WEST .. Dean of the Schools of Agricultural Engineering and Mechanic Arts, Professor of Agricultural 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, 1912—, Dean of the Schools of Agricultural Engineering and Mechanic Arts, 1916—.

JAMES HENRY LINFORD ...... Director, Summer Quarter; Superintendent, Correspondence-Study Department
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, 1892-1912; 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, School of Basic Arts and Science, 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 Basic Arts and Science, 1921—.
NIELS ALVIN PEDERSEN .......... Professor of English and Public Speaking

Graduate, Utah State Normal College, 1901; A. B. University of Utah, 1906; A. M. Harvard University, 1913; Ph. D., University of California, 1925. 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, 1913; Graduate Student, Harvard University, 1908-10-12-13; University of California, 1922-24; Instructor in Mathematics, Brigham Young College, 1906-08; Instructor in Social 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; Professor of Textiles and Clothing, Utah Agricultural College, 1920—.

*EDGAR BERNARD BROSSARD . . Professor of Agricultural Economics and Farm Management

B. S., Utah Agricultural College, 1911; M. S., University of Minnesota, 1917; Ph. D., 1920; Graduate Student, Cornell University, 1917-18. Instructor in Mathematics, Utah Agricultural College, 1909-10; Utah State Farm Management Demonstrator 1914-16 and Summer of 1917; Assistant Farm Management Demonstrator, University of Minnesota.

* Absent on leave.
1916-17; Instructor in Farm Management, University of Minnesota, 1918-19; Professor of Farm Management, Utah Agricultural College, 1919-21; Professor of Agricultural Economics and Farm Management, Utah Agricultural College, 1921—.

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, 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. Graduate student, University of Minnesota, 1924-25. 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 and Business Administration, Professor of Business Administration
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, and Professor of Business Administration, Utah Agricultural College, 1920—

MILTON HYRUM HARRIS ......Professor of Economics
A. B., Brigham Young University, 1915; A. M., Columbia University, 1917; Graduate Student Columbia University, 1917-19; Leland Stanford University, 1924; Instructor in Economics in the College of the City of New York, 1918-19; State Club Leader, Utah Agricultural College, 1919-21; Professor of Economics, Utah Agricultural College, 1921—

DAVID EARLE ROBINSON.......Professor of Marketing in Charge, Information-Service, Registrar
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—

HENRY PETERSON.......Professor of Education and 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—

*Absent on leave during Fall Quarter.
IRA MYRON HAWLEY ........ Professor of Zoology and Entomology

B. A., University of Michigan, 1909; Ph. D., Cornell University, 1916. Instructor, Cornell University, 1912-16; Investigator, 1917-21; Professor of Zoology and Entomology, Utah Agricultural College, 1921—.

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—.

*GUSTAV WILSTER .... Professor of Dairy Manufacturing

B. S., Iowa State College, 1920; M. S., 1921. Student, Queensland Agricultural College, Australia, 1917; Assistant Professor of Dairy Husbandry, Utah Agricultural College, 1921-22, Associate Professor, 1922-23, Professor of Dairy Manufacturing, 1923—.

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

B. S., Utah Agricultural College, 1910; 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 Pedagogy, Utah Agricultural College, 1921-23; Professor of Household Administration, 1923—.

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—.

ADRIN B. SMITH . Professor of Military Science and Tactics

Captain, Coast Artillery Corps, United States Army.

* Absent on leave.
CHARLES ROBERT JOHNSON ........ Professor of Music
Graduate, Brigham Young University Normal School and Music School, 1908; Graduate, National Summer School of Chicago, 1908-11; Student, Columbia Music School, Chicago 1908-11; Student of A. C. Lund, Salt Lake City, 1901-02-03, Mrs. Cheney, New York, Summers 1908-09, Arthur Burton, Chicago, 1909-10; George Hamlin, New York, 1910, Frederick E. Chapman, Boston, 1908-11, A. Cyril Graham, Chicago, 1909-10; Mus B. Wolcott Conservatory of Music, 1924; Professor of Music, Brigham Young University, 1911-16; Assistant Professor of Music, Utah Agricultural College, 1916-17, Associate Professor, 1917-24, Professor 1924—.

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—.

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; LL. B., Harvard University, 1913; Lecturer in Law, Utah Agricultural College, 1917—.

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, 1984-1900; Assistant in Carpenter, 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, Medical Examiner, U. S. Veterans Bureau
M. D., University of Illinois, 1916. Graduate work, West Side Hospital, Chicago, Illinois, 1916; Captain Medical Corps, U. S. Army, 1917-19; Medical Supervisor of Students and Medical Examiner, U. S. Veteran's Bureau, Utah Agricultural College, 1920—.

ALFRED H. POWELL . . . . Associate Professor of Farm Machinery
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 Machine Work, 1919-20, Associate Professor of Farm Mechanics, 1920—.

KATHERINE COOPER CARLISLE . . Associate Professor of Physical Education for Women
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—.

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, 1910-15; 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. Graduate Student, University of Chicago, 1915-16; 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 Agricultural Engineering

B. C. E., University of Cincinnati, 1916; Graduate work, University of Minnesota, 1921-22; Associate member, American Society of Civil Engineers, 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—.

BYRON ALDER................. Associate Professor of Poultry Husbandry

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

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—.

HERBERT J. PACK.............. Associate Professor of Zoology and 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—.
JOHN O. ELLSWORTH .................. Associate Professor of Agricultural Economics

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., State College of Iowa, 1923; Grazing Examiner, United States Forest Service, 1917-19; Assistant Professor of Range Management, Utah Agricultural College, 1919—.

TRACY H. ABELL ...... Assistant Professor of Horticulture
B. S. Montana Agricultural College, 1915; M. S., Oregon Agricultural College, 1917. Instructor in Horticulture, Utah Agricultural College, 1917-19, Assistant Professor, 1919—.

EZRA G. CARTER .................. Assistant Professor of Bacteriology 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; Graduate Student, University of California, Summer of 1916; Instructor in Bacteriology, Utah Agricultural College, 1914-16; Dairy Bacteriologist, U. S. Public Health Service, 1917; Assistant Professor of Bacteriology and Physiology, 1918—.

WILBER 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. A. Engineers Corps, 1918-19; Instructor in Accounting, University of Wisconsin, Extension Division, 1919-20; Assistant Professor of Accounting, Utah Agricultural College, 1920—.

*WALLACE J. VICKERS .... Assistant Professor of English
B. S., Utah Agricultural College, 1912. Graduate Student, University of Chicago, Summer Quarter 1916 and 1916-17; 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—.

*Absent on leave.
LEON D. HARDY .... Assistant Professor of Economics, Correspondence-Study
B. S., Utah Agricultural College, 1917. Assistant, Correspondence-Study Department, Utah Agricultural College, 1917-20, Assistant Professor of Economics, 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—.

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—.

HENRY OBERHANSLEY .... Assistant Professor of Education and Psychology
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, 1918-19, Live Stock Specialist, Extension Division, 1919-20; Assistant Professor of Education and Psychology, Utah Agricultural College, 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, 1916-1923; Assistant Professor, 1923—.

EDITH BOWEN .... Assistant Professor of Education and Psychology
Normal Graduate, Brigham Young College, 1906; Student, University of Chicago, Summer of 1909, Advanced Normal
degree, Brigham Young College, 1911; Graduate Student, Columbia University, 1919-20; Critic Teacher, Brigham Young College Training School, 1910-14; Teacher of ungraded work, Logan City Schools, 1914-16; Primary Supervisor, 1920-23; Assistant Professor of Education and Psychology, Utah Agricultural College, 1923—.

GEORGE DEWEY CLYDE...Assistant Professor of Irrigation and Drainage

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—.

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, 1919-1922; Nutrition Specialist, Extension Division, Agricultural College, 1923-24; Assistant Professor of Foods, 1924—.

LOUIS F. NUFFER ........Assistant Professor of Botany

B. S., Utah Agricultural College, 1918; M. A., 1923; Instructor in Botany, Utah Agricultural College, 1918-25, Assistant Professor, 1925—.

ROBERT C. PADLEY......Assistant Professor of Military Science and Tactics

ALMA ESPLIN ....Assistant Professor of Wool Management

RUSSELL ELWOOD BERNTSON..Secretary, Treasurer and Purchasing Agent

FLORENCE WALKER.......Assistant Professor of Textiles

B. S., Utah Agricultural College, 1921. Graduate Student, Columbia University, 1923-24 and summer of 1923. Instructor in Textiles, Utah Agricultural College, 1924—.
AGRICULTURAL COLLEGE OF UTAH

EDWARD BOCK............Assistant Professor of English
A. B., University of California, 1922; M. A., Harvard, 1925.
Instructor in English, Urban Military School, Los Angeles,
1923-24; Assistant Professor of English, Utah Agricultural
College, 1925—.

VERA CARLSON ...............Secretary to the President

HATTIE SMITH .................Assistant Librarian
Student, University of California, Summer Quarters, 1907,
1917-18; Assistant Librarian, Utah Agricultural College,
1907—.

DAN ARTHUR SWENSON......Instructor in Carpentry and
Woodwork
B. S., Utah Agricultural College, 1915; Assistant in Car­
pentry and Woodwork, Utah Agricultural College, 1913-16;
Instructor, 1916—.

EMIL HANSEN...............Superintendent of Grounds and
Greenhouses, Instructor in Landscape Gardening,
Extension mark; Fellow, Royal Garden Association, 1895-97; Instruc­
Graduate, Technical School in Landscape Gardening, Den­
tor, Stormly School of Gardening, Norway, 1897-99. Land­
scape Gardener, Wadamere Park, Salt Lake City, 1904-06;
Landcape Gardener, Rose City Cemetery, Portland, 1906-
14; Superintendent, Grounds and Greenhouses, Utah Agricul­
tural 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 Col­
lege, 1919—.

SIDNEY STOCK ....Instructor in 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—.
*CHARLES E. McCLELLAN.........Instructor in Education
A. B., Brigham Young University, 1914, A. M., Utah Agricultural College, 1923; Superintendent Schools, Rigby, Idaho, 1914-15; Student, Summer Quarter, University of California 1915; Principal Millard Academy, 1915-17; Superintendent Schools, Rigby, Idaho, 1917-20; Instructor in English and Education, Utah Agricultural College, 1921-23; Instructor in Education, 1923—.

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

REED BAILEY .....................Instructor in 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—.

ABBY GROESBECK ..................Assistant Registrar
Assistant Registrar, Utah Agricultural College, 1914—.

DONNA JONES........................Instructor in English
B. A., University of Utah, 1924; Instructor in Public Speaking, Utah Agricultural College, 1924-25; Instructor in English, 1925—.

WALTER WELTI........................Instructor in English
B. A., Cornell University, 1924; Graduate Student, 1924-25; Instructor in English, Utah Agricultural College, 1925—.

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

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—.

*Absent on leave.
W. H. WARNER ............. Assistant in Poultry Husbandry
AMY PRATT .................. Assistant in Library
H. LORAN BLOOD .... Assistant in Botany and Plant Pathology
                      Assistant in Botany and Plant Pathology, Utah Agricultural College, 1924—
GEORGE NELSON .................... Trainer
HOOPER LINFORD .... Undergraduate Assistant in Chemistry
STANLEY CHRISTENSEN ...... Undergraduate Assistant in Chemistry
EUGENE J. CALLAHAN .......... Assistant in Military Science and Tactics
WILFORD AUDETTE.............. Assistant in Military Science and Tactics
BRICE COBB ........ Assistant in Military Science and Tactics
                                   Sergeant, United States Army.
CHARLES BATT....... Superintendent of Water, Heating and Lighting Plant
RASMUS OLUF LARSEN....... Superintendent of Buildings

Extension Class Teachers
M. O. Poulson, Supt. Beaver School District.
Chas. H. Skidmore, Supt. Box Elder School District.
Newton E. Noyes, Principal Seminary, Ephriam.
Standing Committees
1925-26

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

Advanced Standing—Professor Hawley.
Attendance and Scholarship—Professors F. L. West, N. A. Pedersen, Henry Peterson, Hawley, Jenson, Dancy.
Athletic Council—Professors Ray B. West, Jenson, Romney (representing the faculty), Professors Caine, Robinson and Mr. John H. Bankhead, representing the Alumni Association and three to be named by the Student Body.
Awards and Honors—Professors Wanlass, Linford, Dozier.
Boy Scout Activity—Professors Richards, Fletcher, Oberhansley, Nuffer.
Campus Improvement—Professors Ray B. West, William Peterson, T. H. Abell, Fletcher, Mr. Emil Hansen.
Certification of Teachers—Professors Henry Peterson, F. L. West, Saxer, Robinson.
College Editor—Professor Robinson.
Debating—Professors Daines, N. A. Pedersen, Ricks, Maeser, Pack, Kyle, Ellsworth, Miss Smith.
Exhibits—Professors Fletcher, Moen, A. J. Hansen, Alder, Mr. Emil Hansen.
Graduate Work—Professor F. L. West, William Peterson, Greaves, Saxer, Hawley.
Graduation—Professor O. W. Israelsen.
High School Relations—Professors Henry Peterson, Robinson, Kewley, Romney, Carlisle, Oberhansley.
Library—Professors Ricks, Arnold, Wanlass, Stewart, Dozier.
Loan Funds—Mr. Bernston, Professors Stewart, Dancy.
Publicity—Professors Arnold, Robinson.
Recommendations for Employment—Professors Henry Peterson, Oberhansley, Kewley.
Schedule—Professor Maeser.
Student Affairs—Professor Jenson.
Student Body Organization—Professors Jenson, Thain, Mr. Bailey.
Student Employment—Mr. Burgoyne.
Experiment Station Staff

WILLIAM PETERSON, B. S.
Director and Geologist

HYRUM JOHN FREDERICK, D. V. M.
Veterinarian

JOSEPH EAMES GREAVES, Ph. D.
Chemist and Bacteriologist

*WILLIAM ERNEST CARROLL, Ph. D.
Animal Husbandman

GEORGE BALLIF CAINE, A. M.
Dairy Husbandry

REUBEN LORENZO HILL, Ph. D.
Human Nutrition

GEORGE STEWART, M. S.
Agronomist

ORSON WINSO ISRAELSEN, M. S., Ph. D.
Irrigation and Drainage

IRA MYRON HAWLEY, Ph. D.
Entomologist

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

*GUSTAV WILSTER, M. S.
Dairy Manufacturing

LUTHER MURKINS WINSOR, B. S.
Associate in Irrigation and Drainage

EZRA G. CARTER, M. S., Dr. P. H.
Associate Bacteriologist

*Absent on leave.
AGRICULTURAL COLLEGE OF UTAH

CHARLES TARRY HIRST, M. S.
Associate Chemist

DON WARREN PITTMAN, M. S.
Associate Agronomist

MOYER DELWIN THOMAS, B. S., M. A.
Associate Agronomist

HERBERT J. PACK, M. S.
Associate Entomologist

TRACY H. ABELL, M. S.
Assistant Horticulturist

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

LOUIS F. NUFFER, M. A.
Assistant Botanist

AARON F. BRACKEN, M. A.
Superintendent, Nephi Substation

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

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

ALMA ESPLIN, B. S.
Assistant Animal Husbandman

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

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

JOHN W. CARLSON, B. S.
Superintendent, Alfalfa Seed Experiment Farm

PETER NELSON, M. A.
Farm Superintendent

RUSSEL E. BERNTSON
Secretary and Purchasing Agent

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

DAVID A. BURGOYNE, B. S.
Director's Secretary
Extension Division Staff

WILLIAM PETERSON, B. S.
Director

RENA BAKER MAYCOCK
State Leader, Home Demonstration Work

WILLIAM WHITE OWENS, B. S.
County Agent Leader, Assistant Director

JAMES CHRISTIAN HOGENSON, M. S. A.
Extension Agronomist

JAMES HENRY LINFORD, B. S., D. Did.
Superintendent Correspondence Study

BYRON ALDER, B. S.
Poultry Specialist

W. H. WARNER
Assistant, Poultry

BEN R. ELDREDGE, B. S.
Dairy Specialist

ROBERT HASLAM STEWART, B. S.
Assistant Professor, County Agent, Box Elder County

W. PRESTON THOMAS, B. S.
Assistant Professor, County Agent, Weber County

ROBERT L. WRIGLEY, B. S.
Assistant Professor, County Agent, Cache County

ORSON P. MADSEN, B. S.
Assistant Professor, County Agent, Carbon and Emery Counties

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

WILLIAM J. THAYNE, B. S.
Assistant Professor, County Agent, Davis County

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

ARCHIE L. CHRISTIANSEN, B. S.
Assistant Professor, County Agent, Tooele County
CHARLES O. STOTT, B. S.
Assistant Professor, County Agent, Sanpete County

ELLEN AGREN, B. S.
Assistant Professor, Home Demonstration Agent, Weber, Morgan and Summit Counties

DE LORE NICHOLS, B. S.
Assistant Professor; County Agent, Morgan County

MORGAN P. MCKAY, B. S.
Assistant Professor; County Agent, Piute and Garfield Counties

*ROZINA SKIDMORE, B. S.
Clothing Specialist

ERASTUS PETERSON, B. S.
Assistant Professor; County Agent, Uintah County

IVY C. LOWRY, B. S.
Assistant Professor; Home Demonstration Agent, Salt Lake and Tooele Counties

EZRA R. PRICE, B. S.
Assistant Professor; County Agent, Utah County

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

DAVID SHARP, JR.
Assistant Professor, County Agent, Summit County

ALMA ESPLIN, B. S.
Wool and Sheep Specialist

ALMEDA PERRY BROWN, B. S.
Assistant Professor; Home Demonstration Agent, Box Elder and Cache Counties

SADIE O. MORRIS, M. A.
Specialist in Foods

EFFIE SMITH BARROWS
Specialist Home Management

AFTON ODELL, B. S.
Clothing Specialist

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

*On leave of absence.
AGRICULTURAL COLLEGE OF UTAH

RUBY SMITH, B. S.
Assistant Professor; Home Demonstration Agent,
Utah, Wasatch and Juab Counties

EMIL HANSEN
Specialist, Landscape Gardening

IDA R. MITCHELL
Clerk

DOROTHY SPANDE
Stenographer

DAVID A. BURGOYNE
Secretary to Director

In Cooperation with United States Department of Agriculture.

R. SCOTT ZIMMERMAN
Biological Assistant, Rodent Control
Headquarters, Salt Lake City
Agricultural College of Utah

LOCATION

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 10,000; it is quiet, orderly, clean and generally attractive, with neat homes, substantial public buildings, electric lights, a sewer and a water system. The main streets are paved and cement walks ramify the city; an excellent street car line extends from the station to the College and the interurban connects Logan with other towns of the valley as well as with Salt Lake City.

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 few hundred yards to the south is the Logan river. A mile to the east is a magnificent mountain range with a picturesque canyon. In other directions are the 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 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 made most profitable; instruction in mechanic arts 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, 20,000 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 1925-26, an appropriation of $20,000, which will increase by $10,000 each year until an annual income of $60,000 has been reached, for special work in agriculture 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 instruction and for general maintenance. These needs have been generously 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 \textit{per cent.} of 28 \textit{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 demonstrations.

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

In December, 1918, the Board of Trustees authorized the establishment of an Agricultural Engineering Experiment Station to include the departments of irrigation and drainage, roads, farm machinery and transportation, manufacture of agricultural products, rural architecture and buildings, and rural sanitation and public health. The Utah Agricultural College is the first such institution in the United States to establish an agricultural engineering experiment station as a distinct division.
Since 1917, the Institution has consistently aided the Federal Government in war and post-war programs. During 1917-18, the College trained 492 young men in its Reserve Officers' Training Corps. Six hundred eighty soldier mechanics were trained at the Institution during the summer of 1918. With the establishment at the College in the fall of 1918 of a unit of the Student's Army Training Corps, seven hundred twenty-four men were given collegiate and vocational military training. A large percentage of former U. A. C. students who saw service were commissioned.

The College gave valuable instruction in problems of increased production and consumption through its class room work. Twenty-five years of untiring experimentation showed excellent results when applied by Experiment Station specialists to concrete problems of production. The value to the State of the war service of the Extension Division was conservatively estimated at $4,738,027.00.

GOVERNMENT

The government of the College is vested primarily 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 professor-
ships, 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, Agricultural Engineering, Commerce and Business Administration, Mechanic Arts and Basic Arts and Science—the Dean of the Faculty, the Director of the Summer Quarter, the Director of the Experiment Station and the Director of 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 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 departments 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.

ADMISSION AND GRADUATION

ADMISSION. Entrance to the freshman class is based upon a certificate of 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 must include the following prescribed units among those presented for entrance.

- English—3 units
- Algebra—1 unit
- Geometry (or equivalent Mathematics)—1 unit
- Social Science—1 unit
- Natural Science—1 unit

(Requiring laboratory work)

Students may not receive more than Sophomore standing until such conditions are removed.

For purposes of educational guidance all college students entering the institution for the first time may take the intelligence test.

A student who has less than 15 units of high school work cannot enter unless he is 19 years of age, in which case he must register for Vocational work.

**Advanced Standing.** The college does not grant college credit for excess high school work. Advanced Standing for work done in some other accredited college 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.** Students are ranked as Freshman, Sophomores, Juniors or Seniors at the time they enter.

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 pages 41, 42) 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 Monday, September 28; the winter quarter, Monday, January 4; the spring quarter, Monday, March 22; and the 1926 summer quarter, Monday, June 14. 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 registration.

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 school director, register for seventeen hours.

QUARTER HOURS. A quarter hour of 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 courses and Senior College 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 institution 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 before they have completed 90 hours of College work.

**REQUIREMENTS FOR JUNIOR RANK**

1. 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 for each quarter for each subject from which he has been excused.)

2. a. The completion of ninety credits of work as herein-after conditioned excluding Physical Education and Military Drill.

   b. The completion of one-half of the total group requirements for graduation and one-third of each of three of the groups required for graduation in the particular school in which the student is registered.

   c. The completion of an additional 15 hours of work in one school, (in the school of Basic Arts and Science in one group or in the department of education) this work to represent a continuation of the high school major, if one has been selected or, if not of some subject taken in the Senior year at high school. The aim of this requirement is to prepare the student for his major work in the Senior College.
3. The presentation of the following high school units for entrance:
   a. English ......................... three units
   b. Algebra ......................... one unit
   c. Geometry or equivalent mathematics .. one unit
   d. Social Science ..................... one unit
   e. Natural Science ..................... one unit
   (Requiring laboratory work.)

   When a deficiency exists, the student will be required to complete an equivalent amount of college work in the subject or subjects in which he is deficient, in addition to the regular group requirements in that field.

   The student will be expected to select a major department on entering the institution. The Dean will assign the student to a professor in his school who will act as his adviser in all matters connected with the selection of his major, his registration and general school life.

THE SENIOR COLLEGE

Only those students who have been granted Junior Class Standing or who have substantially completed the equivalent at some other accredited college will be registered in the Senior College.

REQUIREMENTS FOR THE BACHELOR'S DEGREE

The Degree of Bachelor of Science in Agriculture, Home Economics, Agricultural Engineering, Mechanic Arts, or Basic Arts and Science is conferred upon the following conditions:

1. Ten quarters work in Physical Education for both men and women. Six quarters of Military Science for men only.

   (A student who has been excused from Physical Education or Military Science for physical disability or other valid reasons must present one credit for each quarter for each subject from which he has been excused.)
2. The completion of 180 credits of work (excluding credits of Military Science and Physical Education) of which at least 75 must be obtained after the attainment of Senior College standing.

3. The completion of 54 credits of Senior College work after being granted Senior College standing.

4. The completion of thirty credits forming a major subject in some one department in the school from which the student expects to graduate, at least one-half of which must consist of Senior College courses.

5. The completion of eighteen credits forming a minor subject in some other department or departments of the same school.

6. The completion of credit requirements as specified on pages 45-51.

The candidate for the bachelor's degree in Agriculture must also pass an examination at the beginning of his senior year in farm practice to be given by the head of the department in which the student is majoring, the director of the School of Agriculture and one other to be selected by these two.

OTHER REQUIREMENTS FOR GRADUATION. The student must have been in attendance at least one school year preceding the conferring of the degree. The residence period may be satisfied by attendance at Summer Sessions and must include his senior year, unless specific arrangements to the contrary have been made. He must have no grade lower than "D" in any subject used for graduation. Four-fifths of his quarter grades must be "C" or better. He must be of good moral character. He must have discharged all college fees. He must be recommended for graduation by the faculty of the school in which he is doing his major work and must receive the favorable vote of two-thirds of the members of the College Council. Unless he secures an excuse in writing from the Committee on Graduation, he must be present
in person at the commencement exercises at which he secures his degree.

**Graduation With Honors.** A superior student is permitted to obtain the bachelor's degree with honors upon the completion of additional work in his major department or in closely related departments. This work is additional to the regular requirements for graduation; is done under the direction of the departmental faculty, and consists of organized reading and study; or it may consist in part of a research problem. Any senior college student of more than usual ability and scholarship is eligible.

**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 following 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.

The major and minor and the group requirements in the various schools for the bachelor's degree are as follows:

**Requirements of 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 Senior year.

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

Eighteen hours forming the minor subjects must be chosen in some other department or departments of the same school.

**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 .................................................. 48 hours

These electives are entirely at the disposal of the student.

**REQUIREMENTS OF THE SCHOOLS OF AGRICULTURAL ENGINEERING AND MECHANIC ARTS**

**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 of the school in which the student expects to graduate. 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 Senior Year.

Minor Subject ............................................. 18 hours

Eighteen hours forming the minor subjects must be chosen in some other department or departments of the same school.
Agricultural College of Utah

Special Group (Technical) .................................................. 30 hours

The special group (technical) is additional work in the technical division and will be designated by the Dean of the Schools of Agricultural Engineering and Mechanic Arts.

**General Division**

Biological Science Group .................................................. 9 hours
Exact Science Group .......................................................... 18 hours
Language Group .................................................................. 12 hours
Social Science Group .......................................................... 9 hours
Special Group (general) ....................................................... 18 hours

The special group is additional work in one or more of the above groups in the general division and will be designated by the Dean of the Schools of Agricultural Engineering and Mechanic Arts.

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

These electives are entirely at the disposal of the student.

**Requirements of the Schools of Commerce and Business Administration, Home Economics and Basic Arts and Science**

**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 in which he expects to graduate. 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 Senior Year.

Minor Subject ............................................................... 18 hours

Eighteen hours forming the minor subjects must be chosen in some other department or departments of the same school.
General Division

Biological Science Group .................................. 18 hours
(12 hours in the School of Commerce and Business Administration.)

Exact Science Group ....................................... 18 hours
Language Group ........................................... 24 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 School Director.

Electives .................................................. 42 hours
(48 hours in the School of Commerce and Business Administration.)

These electives are entirely at the disposal of the student.

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

REQUIRED WORK

(For All Schools)

Technical Division

Major, 30 hours in one department.

Minors, 18 hours in some other department or departments of the same school.

Special Group. In the Schools of Agricultural Engineering and Mechanic Arts the dean will designate thirty hours in a special technical group.
AGRICULTURAL COLLEGE OF UTAH

SCHOOL OF AGRICULTURE

Agricultural Economics
Agronomy
Animal Husbandry
Art (minor only)
Bacteriology
Botany and Plant Pathology

Chemistry
Dairying
Entomology
Horticulture
Range Management
Veterinary Science

SCHOOL OF AGRICULTURAL ENGINEERING

Art
Agricultural Surveying
Farm Mechanics

Irrigation and Drainage
Highway Engineering
Rural Architecture
Rural Sanitation

SCHOOL OF COMMERCE AND BUSINESS ADMINISTRATION

Accounting and Business Practice
Agricultural Economics
Art (minor only)
Business Administration
Economics

History
Marketing
Political Science
Sociology
Stenography (minor only)
Typewriting (minor only)

SCHOOL OF HOME ECONOMICS

Art (minor only)
Household Administration

Music (minor only)
Foods and Dietetics
Textiles and Clothing

SCHOOL OF MECHANIC ARTS

Automobile Work
Iron Work
Art

Mechanical Drawing
Machine Work
Technology of Mechanic Arts
Wood Work
The departments from which the general subjects may be elected are grouped as follows:

**REQUIRED WORK**

*General Division*

**BIOLOGICAL SCIENCE GROUP (18 Hours)**

(9 hours in the Schools of Agricultural Engineering and Mechanic Arts and 12 hours in the School of Commerce and Business Administration.)

- Bacteriology
- Botany
- Entomology
- Physiology
- Veterinary Science
- Zoology

**EXACT SCIENCE GROUP (18 Hours)**

- Accounting
- Chemistry
- Geology
- Mathematics
- Physics
- Surveying

**LANGUAGE GROUP (24 Hours)**

(18 hours in the School of Agriculture and 12 hours in the Schools of Agricultural Engineering and Mechanic Arts.)

- English
- French
- German
- Latin
- Public Speaking
- Spanish
AGRICULTURAL COLLEGE OF UTAH

SOCIAL SCIENCE GROUP (18 Hours)
(9 hours in the Schools of Agricultural Engineering and Mechanic Arts.)
Agricultural Economics  History
Business Administration  Marketing
Economics  Political Science
Sociology

The College Council is the only body that has the authority to waive or abridge in any way the foregoing requirements for graduation.

SPECIAL GROUP (18 Hours)
ELECTIVES (42 Hours)
(48 hours in the Schools of Agriculture and of Commerce and Business Administration.)

REQUIREMENTS FOR ADVANCED DEGREES

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

The Master’s Degree

The degree of Master of Arts 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 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.

**ORGANIZATION**

The work of the College falls into three distinct divisions: first, the Experimental Division, having for its object the discovery of new truth or the new application of established truth, for the advancement of life; second, the College Proper, giving instruction, especially to young people, on the home campus of the College; 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, each of which draws upon the departments for its instructional or experimental force:

I. Experimentation.
   1. The Agricultural Experiment Station.

   2. The Agricultural Engineering Experiment Station.
II. Instruction on the College Campus—the College Proper.

3. The School of Agriculture.
4. The School of Home Economics.
5. The School of Agricultural Engineering.
6. The School of Mechanic Arts.
7. The School of Commerce and Business Administration.
8. The School of Basic Arts and Science.
9. The Summer Quarter.

III. Instruction beyond the College Campus.

10. 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. At present, the College maintains forty-six departments.

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, viz., $8.00 annually. 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. For dates of these contests, see college calendar, page 5.

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 Agricultural Club, the Ag. Club Link. Interest in journalistic work is 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 interests 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 and Business Administration, 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 membership. 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.

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

Phi Upsilon Omicron. 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 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 elections 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.

**Student Expenses**

While there has been a slight rearrangement of fees this year over last year, the total charged for entrance remains practically the same. By state law, the Institution may relieve worthy and deserving students from payment of the registration fee, provided that not more than ten per cent of the total student body be relieved of the fee in any one year.

The following fees are charged entering students:

<table>
<thead>
<tr>
<th></th>
<th>UTAH STUDENTS</th>
<th>STUDENTS FROM OTHER STATES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>One Quarter</td>
<td>Two Quarters</td>
</tr>
<tr>
<td>Registration fee</td>
<td>$10</td>
<td>$10</td>
</tr>
<tr>
<td>Tuition</td>
<td>9</td>
<td>18</td>
</tr>
<tr>
<td>Withdrawal deposit</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Gym. Fee</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Student Body Fee</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$27</strong></td>
<td><strong>$40</strong></td>
</tr>
</tbody>
</table>

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—dramatic 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.

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 required military training, followed by two years of optional military training. Free uniforms are furnished by the War department to those taking the required work. Those taking the last two years receive, in addition to free uniforms, commutation of subsistence. The requirements will vary slightly according to the military units in which the student registers.

In order to remain 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.

As 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 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 re-
quired 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>$75</td>
<td>$75</td>
<td>$75</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>50</td>
<td>90</td>
<td>150</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>$325</td>
<td>$415</td>
<td>$525</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.

**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 the 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 Directors’ 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 1926. 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 Lois Hayball Medal is to be awarded annually to a Junior or Senior student in the School of Home Economics on the following basis:

(a) Qualities of Womanhood.
(b) Evidence of application of Home Economic principles in every relation of daily life.
(c) Proficiency in scholastic attainments.
The Howell Medal, a gift of Howell Brothers, is given annually to the best inter-collegiate debater.

The Howell Medals, a gift of Howell Brothers, are given annually to the members of the championship inter-class debating team.

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.

A Loving Cup, for scholarship, the gift of Dr. W. L. Wannell, is presented each year to the social fraternity showing the highest scholarship. This cup will become the property of the first fraternity to win it three times.

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 AND EQUIPMENT

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. 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, blueprinting 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 and 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 Greenhouses 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 demonstration. Gas, compressed air, continuous and alternating current electrical power, etc., are available.
The Physiological Laboratory is supplied with an excellent collection of native animals, skeletons, both articulated and dis-articulated, 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 pro-
duce 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 name 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 drapery, 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 depositary 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.

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. 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 EXPERIMENT STATION

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 created for the purpose of discovering new truths that may be applied in agriculture and for making new applications of well-established laws. Essentially devoted to research, it does the most advanced work of the College. It is composed of seventeen departments with a staff of over thirty highly trained specialists who are investigating over fifty distinct projects.

The Station is not, in the ordinary sense, an institution where model farming is carried on. 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 suggestions 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 inter-mountain region. Irrigation, the foundation of western agriculture, has received greatest attention. Elaborate experimental plats have been equipped where the value of different quantities of water and methods of application have been studied and the underlying principles brought out.

Dry-farming problems are only second in importance to those of irrigation in the development of the West. A number of ex-
experimental dry-farms are maintained on which every effort is made to increase production. Many of the present investigations involve water holding capacity of soils, the water requirements of crops, the 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 considerable attention. Breeding experiments for the improvement of sugar beets, potatoes, cereals, alfalfa and poultry 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 studied. The development of better cropping methods, the dairy industry and the range lands of the State are receiving attention together with various livestock rations. Plant disease, horticultural and soil surveys are now in progress. Among the last projects to be started are human nutrition investigations and a study of the farm management problems of Utah.

Bulletins containing the results of experimental work and circulars containing timely and practical information on various subjects are issued at irregular intervals. These are mailed free of charge to all persons requesting them.

The Experiment Station has a high educational value. Nearly all the staff are also members of the College faculty; the students, therefore, receive at first hand an account of the methods and results of the work of the Station, as well as training in their application. The opportunities that the Station offers for advanced work in 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 that go on at all times of the year.
The Station is always glad to assist advanced students in any investigations they wish to undertake.

THE AGRICULTURAL ENGINEERING EXPERIMENT STATION

The Board of Trustees established in 1918 an Agricultural Engineering Experiment Station as a separate division of the work of the College. The organization of the Agricultural Experiment Station is a logical development of the work of the College following the organization in 1911 of the School of Agricultural Engineering. It will enable the college to use part of its funds, both federal and state, in the investigation of the many problems which confront the development of agriculture on the engineering side.

The profession of rural engineering is almost a realization. The farmer must, therefore, be advised fully in regard to engineering as it affects rural communities. That there was a direct need for this organization, is evidenced by the fact that much work which is properly a part of the work of such a station has been carried on informally by various departments of the college. The work of the Agricultural Engineering Experiment Station will continue in a more complete way the work which has thus already been undertaken informally and it will branch out ultimately to include all of those problems wherein the profession of engineering touches that of agriculture.

As organized at present, the Agricultural Engineering Experiment Station consists of the Departments of Irrigation and Drainage, Roads, Farm Machinery and Transportation, Manufacture of Agricultural Products, Rural Architecture and Buildings and Rural Sanitation and Public Health. Complete programs of work have been outlined in these different departments.
THE EXTENSION DIVISION

Organized for the purpose of disseminating the work of the College and the United States Department of Agriculture among the people of the State and for the further purpose of beginning new work outside the College which may be of service to the people of the State, the Extension Division serves two purposes: it carries on organized instruction in the various subjects included in the College curriculum and it performs personal and community service of a more directly practical nature. The Extension Division is the joint representative in Utah of the United States Department of Agriculture and the Utah Agricultural College.

Administration

The Extension Division, in its administration, is divided into departments as follows:

Administration       Correspondence Study
Junior Extension Work County Agent Work
Specialists           Community Service Bureau

Home Demonstration Work

A corps of specialists is maintained at the College for the purpose of giving special aid to the Extension agents in the counties and otherwise promoting their special lines of work.

County Agricultural Agents are maintained in most of the counties of the State. Their chief work consists in developing and executing a program of agricultural improvements, in making necessary calls to individual farms, in supplying market quotations and in otherwise rendering service to the farmer.

County home agents are maintained in a number of counties and cities of the State. The purpose of this work is to develop and carry out a definite program of home improvement which is done by working through organizations and by individual calls as far as possible. This work is carried on through the home section of the farm bureaus.
County work is maintained for the purpose of supervising and assisting the boys and girls in carrying out definite farm and home projects. Under this plan the primary purpose is to develop leadership and train boys and girls in better methods of farm and home practice.

The Correspondence-Study Department. The Utah Agricultural College was one of the first educational institutions in the inter-mountain region to establish such a 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.

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

Scope: 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, farm machinery, bee-keeping, etc.

4. Reading Courses for the housewife; short, practical non-credit courses in sanitation, home management, cooking, service, sewing, 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 co-operative 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.

Publications of real value to the rural communities are issued in the form of circulars as occasions demand.

**COLLEGE PROPER**

For the purpose of efficient administration, the instruction on the campus or in the College proper is divided into seven schools: (1) The School of Agriculture; (2) The School of Home Economics; (3) The School of Agricultural Engineering; (4) The School of Commerce and Business Administration; (5) The School of Mechanic Arts; (6) The School of Basic Arts and Science; (7) The Summer Quarter.

*The School of Agriculture* offers a four-year college course with opportunity to major in agricultural economics, agronomy, animal husbandry, bacteriology, botany and plant pathology, chemistry, dairying, entomology, horticulture or veterinary science.

*The School of Home Economics* offers a four-year college course with the opportunity to major in foods and dietetics, household administration or textiles and clothing.

*The School of Agricultural Engineering* offers a four-year college course with the opportunity to major in art, agricultural surveying, farm mechanics, irrigation and drainage, highway engineering, rural architecture or rural sanitation.

*The School of Commerce and Business Administration* offers a four-year college course with the opportunity to major in accounting and business practice, agricultural economics, business
administration, economics, history, marketing, political science or sociology.

The School of Mechanic Arts offers, in addition to shorter trade courses, a four-year college course in mechanic arts, with the opportunity to major in art, iron work, mechanical drawing, machine and automobile work, technology of mechanic arts and woodwork.

The School of Basic Arts and Science offers a four-year college course in general science.

The Summer Quarter offers instruction during twelve weeks of the summer, in most of the subjects taught during the winter.

Each school also offers practical year and winter courses which may be taken by mature students fitted to follow them.

For Work in Education, see Index.

THE SCHOOL OF AGRICULTURE

Agriculture is one of the most promising of modern professions. It is growing very rapidly and, owing to the scientific foundation that recent years have given it, large numbers of intelligent people are adopting it as their means of livelihood. The new agriculture is not a profession of unceasing toil. On the contrary, the freedom, health, intellectual activity and profit to be obtained from intelligent farming are attracting the best classes of people. Utah and other western states are offering excellent opportunities to those who prepare themselves for scientific farming. There is a great demand for men who can supervise large farm enterprises; there is a greater demand for men who can act as experts, experimenters or teachers in the schools and other institutions in the State and National Government. The supply of such men does not equal the demand.

Experience having shown that practically all of the students who take agriculture come from the farms, it is assumed that they are acquainted with the various manual operations of farm
work. The design of the school is, therefore, to teach the sciences that underlie practical agriculture and to offer sufficient supplementary studies to develop the agricultural student to the intellectual level of those educated in the other professions. The agricultural courses are planned to lay a foundation upon which the student can build a successful career as a farmer or develop into a specialist in agriculture. Before a degree will be granted in agriculture, the student must give evidence that he has spent at least one summer at farm work.

The general and departmental libraries enable the student to become acquainted with a wide range of agricultural and related literature; the laboratories of the College and the Experiment Station afford opportunity for training and experience not obtainable from books alone.

For subjects in which the student may major or minor see Required Work for Graduation.

THE SCHOOL OF HOME ECONOMICS

A steady growth of Home Economics courses in leading colleges and universities indicates the ever increasing realization that the well conducted home is the most important factor in the development of healthy and capable citizens. The multiplying complexities of modern life demand that those in charge of the family understand much that is beyond the exact limits of the home. Therefore stress is laid on the study of childhood and adolescence, and the problems of social, industrial and civic life.

The State of Utah wisely introduced courses in home management when the college was organized and the support which has been accorded to the work by the public shows the wisdom which prompted this provision.

Year by year increased facilities have become available for the students in the School of Home Economics. Special mention should be made of the well equipped home nursing laboratory;
and opportunity for apprentice teaching in Home Economics in several Cache County High Schools. The newer trend of the study of Foods and Nutrition has been recognized by additions and changes in the dietetics laboratory course; and finally, in accordance with the policy of the institution to concentrate its efforts on offering opportunities for the well prepared students provision is made for graduate and advanced undergraduate work in the various phases of Home Economics. Residence for twelve weeks in the Home Economics cottage, serving primarily as a laboratory for the household management course, makes it possible for senior students to apply and correlate the principles of home management, food engineering, household accounting, home planning and interior decoration, etc. Considerable emphasis is placed also on the spiritual side of home-making in order that students may have an opportunity of studying its relative importance in family life.

The technical work in this school is organized into three departments, each dealing with one of the three equally important and interrelated phases of Home Economics. These are the Departments of Food and Dietetics, Household Administration and Textiles and Clothing. The course as a whole includes certain foundational courses in science and art that are prerequisites to the technical work and the so-called cultural courses, which must be included both to make a true Home Economics Course and to meet the College graduation requirements. This combination is well designed to fit women for the following professions: (1) Home Keeping; (2) Teaching of Home Economics; (3) Home Economics Extension Work. It also prepares women to hold various positions in the social and industrial organizations.

The completion of the Home Economics course requires four years of college work and leads to the degree of Bachelor of Science.
Special provision is made for courses desired by women who are unable to take the regular course work and yet who desire training in various phases of home economics.

THE SCHOOL OF AGRICULTURAL ENGINEERING

The rural problem has many phases. An adequate and self-perpetuating country life cannot be made simply by teaching people how to raise grain and fruit and how to manage and improve livestock. The country might be filled with farmers well trained in these branches and still lack many of the elements necessary for a well-balanced and efficient rural community. Many problems having to do with the entire community rather than with the individual farmer must be solved by men with training for that kind of work rather than by those trained to produce crops and livestock on a single farm. Again, many questions on the individual farm have to do with construction rather than with production from the soil. These questions can be properly answered only by men with special training.

In the past, agricultural colleges have given their attention to the direct questions of farming, but now the entire rural problem must be met. The farm must be a desirable and healthful place to live. The buildings must be so arranged and constructed as to give the maximum of efficiency and comfort and at the same time have proper sanitary provision. The rural roads must be such that the farmer can move his crops with small expense and go to town with comfort and speed. The machinery of the farm must be so constructed and cared for that it will be reliable and work economically. The limited supply of irrigation water must be so used as to produce maximum returns. There must be factories to change the raw materials of the farm into high-priced finished products. All these necessities demand men trained for them.
To meet the demand, the College has organized a School of Agricultural Engineering designed to enable men to solve all but the most technical engineering problems of an entire rural community. The courses are very helpful to the farmer who does not wish to do the work of a trained engineer.

Students may major in art, agricultural surveying, farm mechanics, irrigation and drainage, farm and public roads, rural architecture and rural sanitation and public health. These courses all lead to the degree of Bachelor of Science.

THE SCHOOL OF COMMERCE AND BUSINESS ADMINISTRATION

The purpose of the School of Commerce and Business Administration 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, business administration, economics, history, marketing, political science and sociology. A thorough training is offered in shorthand and typewriting for the preparation of teachers and secretaries.

In addition to these college courses, vocational courses are offered.

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.
The European War created an intense demand for men trained in foreign service and foreign trade. The Federal Bureau of Education has requested all colleges of the country to offer courses in preparation for such service. Accordingly, the School of Commerce and Business Administration has outlined a four years' course designed to fit students for foreign trade and diplomatic service. Especial emphasis will be placed on our South American commerce.

THE SCHOOL OF MECHANIC ARTS

This School offers three-year trade courses in contracting and building, forging and carriage work and automobile repairing; a two-year trade course in painting and interior decoration; and a four-year college course leading to the degree of Bachelor of Science.

The information offered finds application in every industrial activity and is much demanded by the rapid growth in the mechanical and industrial pursuits. As more and more of the work of man is done by machinery and labor-saving devices, it is desirable to obtain information that will enable men to meet the new conditions intelligently. The many applications of electricity and gas power in the factory, shop, home and on the farm, and the advent of the automobile demand a knowledge of materials, tools, machines and processes.

The agricultural student can obtain in the School of Mechanic Arts just the information he needs to enable him to do the constructive work in farm buildings and the repair work necessary in operating machinery, thereby making farm life more profitable and desirable. Those who intend to enter engineering will find no better preparation than that offered in the mechanic arts courses. In the shops a knowledge of the nature of materials, methods of construction and operation of machinery can be had
better than elsewhere. The demand for manual training teachers is far in advance of the supply.

The drafting rooms give thorough work in the methods of making mechanical drawings and afford opportunity to specialize in the line of work the student is pursuing, such as architectural, carriage, machine and agricultural drawing.

Students may major in art, iron work, mechanical drawing, machine and automobile work, technology of mechanic arts and woodwork. Vocational courses are also offered.

All products of the shop are the property of the school, students being allowed to take away specimens of their work only by permission.

THE SCHOOL OF BASIC ARTS AND SCIENCE

To carry out the work of the several technical schools of the College, an efficient instructing force and complete modern equipment have been provided in the natural and physical sciences, as well as in English, mathematics, history, language, etc. 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 work of the School of Basic Arts and Science and, paralleling the other degree courses of the College, lead to the degree of Bachelor of Science.

For subjects in which students may major or minor, see Requirements for Graduation.

EDUCATION

By act of the 1921 legislature the Utah Agricultural College is required to add education to its course of study. The purpose is to enable students to prepare for the teaching profession in the broad lines of work represented in the College curriculum. In answer to this demand of the State, courses have therefore been added in psychology and education.
All eligible students may enter these courses. Some of them are especially designed to prepare Smith-Hughes teachers in agriculture and home economics and others to prepare extension workers.

These courses are especially inviting because of the great demand for people trained in these lines. The federal government and the various states now employ about 5,000 extension workers and there is always great demand for teachers of agriculture and home economics and of trades and industries. Those who graduate in this work will have good opportunities for employment on twelve month contracts, while teachers in other lines usually have but nine month contracts. This fact alone should draw large numbers to them.

To keep teachers of agriculture and of home economics and extension workers alive and growing and to give them incentive to aspire to positions of broader usefulness, graduate courses are offered that apply to the getting of higher degrees and that prepare for extension work as county agricultural agents, county home demonstration agents, agricultural specialists, home economics specialists and state and federal leaders in these lines. Advanced work is likewise offered to prepare progressive teachers for greater responsibilities in Smith-Hughes work.

Vocational credits in education are granted by the College for work done by high school students who are regularly registered in the junior extension school conducted each year by the College, subject to the following provisions:

(a) That vocational credit be granted only to students who are registered for the course and complete the prescribed work under the supervision of a representative of the College.

(b) That the credit shall be based upon the work done, but that not to exceed 4 quarter hours of credit shall be given.

During the Summer of 1924 the College conducted the first annual session of 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 and voca­tional features, each year the greatest educators of the nation and
thus to build, in the inter-mountain west, one of the greatest na­tional summer schools.

In 1925 to the resident faculty of the institution the follow­ing visiting faculty will be added: Prof. W. C. Alee, Department of Zoology, University of Chicago; Miss Alma Binzell, Educa­tional Director, Child Study Federation of America, Child Psy­chology and Habit Formation; Prof. James E. Boyle, Depart­ment of Agricultural Economics, Cornell University; Prof. T. N. Carver, Department of Economics, Harvard University; Prof. Henry C. Cowles, Department of Botany, University of Chicago; Prof. Peter W. Dykema, Director of Music Education, Colum­bia University; Prof. Charles A. Ellwood, Department of So­ciology, University of Missouri, Past President American Socio­logical Society; Prof. Raymond Franzen, Department of Psy­chology, University of California; Miss Edna Geister, Lecturer in Recreational Leadership, Columbia, Plays and Games; Miss Mary Wood Hinman, Hinman Dancing School, Chicago; Professor R. B. Kester, Department of Accounting, Columbia University; Prof. W. H. Kilpatrick, Department of Education, Columbia Univer­sity; Geo. D. Louderback, Department of Geology, University of California; Prof. E. V. McCollum, Department of Nutrition, Johns Hopkins University; Prof. E. Laurence Palmer, Depart­ment of Nature Study, Cornell University; Mrs. E. Laurence Palmer, Formerly Professor of Geology, University of Washing­ton, Editor Cornell Rural School Leaflet; Dr. M. J. Rosenau, Department of Preventive Medicine and Director, School of Public Health, Harvard University; Prof. G. G. Sedgewick, De­partment of English, University of British Columbia; Miss Elga M. Shearer, Supervisor of Primary and Elementary Grades, Long
Beach, California; Professor Frederick J. Turner, Department of History, Harvard University; Prof. John A. Widtsoe, Formerly President, University of Utah and of the Utah Agricultural College; Miss Mable Wilkerson, Specialist in Costume Design and Home Furnishing, New York City; Mr. W. L. Walker, Manager, Washburn Manufacturing Company, Worcester, Mass.; Miss Mark K. Moriarty, Health Education for Elementary Schools, New York. In addition, the following lecturers will appear on the Summer School program: Prof. Shailer Matthews, Dean of the Divinity School, University of Chicago; Prof. Edward Howard Griggs, Educator, Lecturer, New York City; Prof. E.A. Steiner, Professor of Applied Christianity, Grinnell College, Ia.; Dr. A. E. Winship, Editor, Journal of Education, Boston.

The first session of the National Summer School was remarkably successful. Eleven hundred sixty three students were registered, coming from twenty-four states of the Union and five foreign countries. Of these, nearly two hundred and fifty were working for the master’s degree.

The National Summer School for 1925 will be more ambitious than was the 1924 session. Graduate as well as undergraduate work will be stressed and the fullest opportunity provided for teachers to receive certification and for college students to work toward the baccalaureate or advanced degrees.

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 by the Department of Education as part of the regular work of the College. Students desiring to make up conditions or prepare for advanced work are given all 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.
Suggested Courses for Various Professions

**AGRICULTURAL ECONOMICS**

The courses in Agricultural Economics aim to prepare men and women for the following services: (1) commercial farmers or farm managers; (2) county agricultural agents; (3) managers of farmers' cooperative business associations; (4) wholesale and retail dealers of fertilizers, feed, seeds, grains, produce, farm machinery and equipment; (5) buyers of farm products; (6) salesmen of agricultural commodities; (7) federal, state or private service in marketing farm crops or livestock; agricultural insurance, rural credit, transportation of farm products, agricultural statistics, farm accounting and farm cost accounting; (8) agricultural commerce or related fields such as receivers, shippers, handlers, storers of soil grown products; (9) rural banking agents such as land appraisers and secretaries of national farm loan associations; (10) rural real estate dealers; (11) public service men and agricultural assistants to corporations and institutions as railroads, banks, chambers of commerce, boards of trade, grain exchanges, and associations of various kinds; (12) advertising and publicity service for agricultural products for various organizations, such as the state and national Farm Bureau Federations, the National Wool Growers Association, and the Livestock breeders associations; (13) teaching in high schools and colleges; and (14) research or experiment station work in various divisions of agricultural economics.

**SUGGESTED COURSE IN AGRICULTURAL ECONOMICS**

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<td>Education 112 and 113</td>
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<tr>
<td>Bus. Adm. 111 or 113</td>
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**Language Group:**

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*(Note)* Students who are preparing to teach or do Smith-Hughes work need 15 quarter hours more work in the professional subjects than is here outlined. It is suggested that these professional subjects be taken instead of some of the work in the exact science group. Students who know what occupation they are going to follow may concentrate more than this course suggests by substituting the more specialized courses for some of the general ones suggested.
### AGRICULTURAL COLLEGE OF UTAH

### SCHOOL OF AGRICULTURAL ENGINEERING

#### JUNIOR COLLEGE

<table>
<thead>
<tr>
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<th>S</th>
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#### SENIOR COLLEGE

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<td>Roads 2</td>
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<td>Mech. 1</td>
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<td>Mech. 102, 103</td>
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### COMMERCE AND BUSINESS ADMINISTRATION

The field of commerce or business is now so large that it is impossible for any person to become proficient in all of its branches. However, the business world recognizes several well-defined professions or vocations for which trained men and women are always in demand. It is the aim of the School of Commerce and Business Administration to give the student a thorough grounding in the fundamentals of economics and business and then to give him special training that will prepare him to enter one of these recognized business callings. The following schedules of courses have been carefully worked out to guide the student in preparing himself for the vocation he desires to follow. The courses are not prescribed, but the student who follows them will find at the end of his college career that he has a broad and thorough training. Furthermore, the student who enters college, selects the work he desires to do in life and prepares himself definitely for it has a great advantage over the student who goes through college without any definite objective.
## SUGGESTED GENERAL FRESHMAN AND SOPHOMORE COURSES

### Freshman Year:

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<tr>
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### Sophomore Year:

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## SUGGESTED SPECIALIZED COURSE IN ACCOUNTING

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### Senior Year:

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### Quarter Credits:

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## SUGGESTED SPECIALIZED COURSE IN BANKING

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### Senior Year:

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<tbody>
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### Quarter Credits:

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## SUGGESTED SPECIALIZED COURSE IN BUSINESS ADMINISTRATION

### Junior Year:

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<td>Mkt. 111, 112, 113</td>
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<td>Pol. Sci. 104, 105, Bus. Ad. 115</td>
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### Senior Year:

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### Quarter Credits:

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### SUGGESTED SPECIALIZED COURSE IN COMMERCIAL TEACHING

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### SUGGESTED SPECIALIZED COURSE IN MARKETING

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### SUGGESTED SPECIALIZED COURSE IN SECRETARIAL WORK

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# DAIRY MANUFACTURING

## FRESHMAN YEAR

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<td>Animal Husbandry 1</td>
<td>Market Types</td>
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<td>Dairy Husbandry 1</td>
<td>Elements of DaIrying</td>
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<tr>
<td>Botany 1</td>
<td>General Botany</td>
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<tr>
<td>English 5</td>
<td>College Grammar</td>
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<td>Dairy Husbandry 6</td>
<td>Dairy Arithmetic</td>
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<td>Dairy Husbandry 7</td>
<td>Varieties of Cheese</td>
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<tr>
<td>Economics 1</td>
<td>General Economics</td>
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## SOPHOMORE YEAR

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<td>Dairy Husbandry 5</td>
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<td>Ice Cream and Ices</td>
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<td>Public Speaking 4</td>
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## JUNIOR YEAR

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<td>Dairy Husbandry 102</td>
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<td>Dairy Husbandry 103</td>
<td>Judging Dairy Products</td>
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<td>Dairy Husbandry 104</td>
<td>Testing and Inspection</td>
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<td>Bacteriology 104-105</td>
<td>Buttermaking</td>
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<tr>
<td>Agronomy 103</td>
<td>Cheesemaking</td>
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<td>Farm Mechanics 12</td>
<td>Dairy Bacteriology</td>
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<td>Dairy Husbandry 3</td>
<td>Soils</td>
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<td>Dairy Husbandry 111</td>
<td>Farm Motors</td>
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<td>Chemistry 103</td>
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<td>Chemistry 107</td>
<td>Dairy Cattle Judging</td>
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<td>Agronomy 101</td>
<td>Breeds of Dairy Cattle</td>
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<td>Crop Production</td>
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## SENIOR YEAR

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<td>English 125, 126, 127</td>
<td>Journalism</td>
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<tr>
<td>Accounting</td>
<td>Creamery Accounting</td>
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<td>Marketing 103</td>
<td>Salesmanship</td>
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<td>Marketing 112</td>
<td>Marketing Agr. Products</td>
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<td>Political Science 104, 105</td>
<td>Commercial Law</td>
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<td>Dairy Husbandry 105</td>
<td>Management of Dairy Plants</td>
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<td>Animal Husbandry 102</td>
<td>Practice Feeding</td>
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<tr>
<td>Marketing 161</td>
<td>Business Letters</td>
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<td>Agricultural Economics 102</td>
<td>Farm Management</td>
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</table>
**SUGGESTIVE COURSE FOR ELEMENTARY TEACHERS**

**Freshman Year:**
- English Literature .. 3
- History .. 3
- Science . . . . . . . . 3
- Educational Art . . . . 3
- Public School Music .. 3
- *Physical Development and Health Education .......... 3
- Introductory Psychology ................. 3
- *Educational Psychology ...............

**Sophomore Year:**
- Sociology ............. 3
- Economics, Agric. or Home Economics .. 3
- Principles of Education . 3
- State Course of Study 3
- *Educational Organization and Administration 3
- *Methods of Teaching Elementary Subjects 3
- *Practice Teaching .... 6

*Required for State Certification.*

**REQUIRED STUDIES FOR CERTIFICATE TO TEACH IN HIGH SCHOOLS**

**Freshman Year**
- Political Science or Economics .. 5

**Sophomore Year**
- Health Education ............. 3
- Ethics or Applied Sociology .... 5

**Junior Year**
- Adv. Educational Psychology (See Ed. 101, 102, 103) ..... 5
- Organization and Administration of Secondary Education .. 4

**Senior Year**
- Science of Education ............. 4
- Secondary Training (Practice Teaching) ................. 8
- Methods of Teaching Major Subjects ......... 6
- Seminar in Education .......... 1½

**HOME ECONOMICS**

Suggested grouping of subject matter for four year course leading to degree of Bachelor of Science in Home Economics.

**Freshman Year:**
- Chemistry 1, 2 ............. 5
- Botany 1, or Physiol. 1 5
- English 10 ............. 3
- Art 1, 2, 3 ............. 2
- Textiles 10—2 quarters 3
- Elective—1 quarter. 3
- Household Ad. 10 .. 2
- Elective ................ 3
- Physical Education .. 1 1 1

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<td>150 hours</td>
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**Sophomore Year:**
- Foods 20 ............. 3
- Economics 1, 2, 3 .... 3
- French, German or English 3
- Physical Education 1 1 1
- Electives (Depending upon Major) .... 6 6 6

**Junior and Senior Years.**

All students must complete the group requirements for graduation (major subject 30 hours; minor 18 hours, to include work in both departments other than department in which major work is done; exact science 18 hours; biological science 18 hours; social science 18 hours; language 24 hours; special group chosen under direction of School Dean 18 hours,) together with sufficient additional work to make a total of 180 hours exclusive of the required work in Physical Education.

All students wishing to qualify as teachers of Home Economics in Utah High schools should, and 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 in either
Foods or Textiles. They must elect Household Administration 122 (Home Furnishing and Decoration) H. A. 150 (Household Management), H. A. 125 (Mothercraft), Education 120, 121, 122 (Special methods in Home Economics) together with sufficient additional education subjects to meet the Utah State Board of Education requirements (36 hours for the State High school certificate).

HORTICULTURE

**Freshman Year**

<table>
<thead>
<tr>
<th>Name of Course</th>
<th>Dept. No.</th>
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<tr>
<td>Economic Entomology</td>
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<td>Freshman Composition</td>
<td>English 10, Sec. 2</td>
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<tr>
<td>Extemporaneous Speaking</td>
<td>Public Speaking 5</td>
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<tr>
<td>Horticulture</td>
<td>Horticulture 1</td>
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<tr>
<td>Olericulture</td>
<td>Horticulture 3</td>
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**Sophomore Year**

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<td>History 3, Sec. 1</td>
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<td>Plant Propogation</td>
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<tr>
<td>Irrig. and Drainage Practice</td>
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**Junior Year**

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<td>Flowering Plants</td>
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<td>Systematic Pomology</td>
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<td>Fruit Production</td>
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<td>Orchard Practice</td>
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<td>Marketing Farm Products</td>
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<td>Market Reports, Practices</td>
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### Physical Education for Women

**Freshman**

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<td>Bacteriology</td>
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<td>History</td>
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**Junior**

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**Sophomore**

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**Senior**

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### Scout Executives

#### First Year

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**Totals**                   | 17| 17| 17|

#### Second Year

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**Totals**                   | 17| 17| 17|

#### Third Year

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**Totals**                   | 18| 17| 17|

#### Fourth Year

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**Totals**                   | 17| 17| 16|
SMITH-HUGHES TEACHER TRAINING

The Smith-Hughes Teacher Training work in the Utah Agricultural College is authorized and subsidized by the Federal Government through the Smith-Hughes Act and authorized by an act of the 1919 session of the Legislature of the State of Utah. It is under the direction of the State Board of Vocational Education and its agents, the director and the State Supervisors.

As at present organized, the Department of Education aims to train Smith-Hughes teachers for positions in agriculture, farm mechanics, home economics.

Requirements for Smith-Hughes course in Vocational Agriculture:

1. General requirements:
   (a) Fifteen units of high school credit or the equivalent is required for entrance.
   (b) For graduation, 180 quarter hours and the necessary work in physical education and military science will be required of all students.
   (c) Technical agriculture 40 per cent so distributed to prevent too narrow specialization. The work should include at least one basic course in each important department of applied agriculture.
   (d) Physical and biological science 20 per cent.
   (e) Social Science and English 20 per cent.
   (f) Professional 15 per cent.
   (g) Elective 5 per cent.

By arrangement with the School Boards of Logan City and Cache County observation and practice teaching will be conducted in the Smith-Hughes classes in Agriculture in the Logan and the North and South Cache High Schools, during the Fall, Winter and Spring quarters.

Opportunity will be afforded in connection with the same classes for trainees to supervise home projects during the summer. Project Management and Practice in Agriculture candidates for graduation in agriculture must take an examination in farm practice with the department head with whom they are majoring.

The purpose of the examination is to insure adequate practical experience in the technique of farming, without which a man is not a good teacher in Agriculture or a good farm manager.

To prepare a man for this examination, farm practice is considered under three heads:

1. Elementary farm practice, technique, proficiency in hitching up a team to the wagon, plow or grader; adjusting harness; milking, building a fence, preparing land for irrigation, etc.

2. Project management. Some unit of the farming business planned and conducted to a conclusion under the direction of the professor of farm practice, the head of the department in whose field the project comes, and the teacher of methods in Agriculture.

3. Farm Management. The whole business of the farm planned and run as a business under the same leadership, in which complete records are kept.

Students who have had farm experience can readily pass 1. All Smith-Hughes students should take 2, for which satisfactory examination in should be prerequisite. It is assumed that after going thoroughly through one project, the organization of other projects will be within the student's power. Smith-Hughes students should take 3 for which 2 is prerequisite. They should be able to analyze a farmer's business and point out the profitable and the unprofitable units of it and tell why. Such training should be prerequisite to the teaching of agriculture.
The Summer quarter.

Professional and Technical courses are being planned for the Summer quarter for the convenience of those teachers in service desiring to qualify for Smith-Hughes teaching of Agriculture. These courses will be:

1. Under graduate, for elementary school teachers working for degrees.
2. Graduate, for Smith-Hughes workers now in service who can get furloughs to take these courses thereby increasing their efficiency. The State Supervisor of Smith-Hughes Agriculture will co-operate in planning and giving this work.

HELPING TEACHERS IN SERVICE

The Smith-Hughes Teacher Training Department of the U. A. C. will co-operate with the State Department in training Smith-Hughes teachers in Service. This will be done by means of:

1. District and Regional Conferences.
2. Visiting schools and helping inexperienced teachers plan and organize their work.
3. By preparing Outlines, Bulletins and "News Letters."

Among the professional subjects the following are prescribed:
Secondary training to the extent of eight quarter hours; Science of Education, 4 quarter hours; Organization and Administration of Secondary Education, 4 quarter hours; and Advanced Educational Psychology, 5 quarter hours. In addition to these professional educational credits an applicant's college work must include 3 quarter hours in Health Education, 5 quarter hours in Applied Ethics or Applied Sociology and 5 quarter hours in Political Science or Economics.

Following is a suggestive course for prospective Smith-Hughes teachers:

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<th>Freshman Year</th>
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<td>Agronomy</td>
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<td>Agronomy</td>
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Departments of Instruction

(Arranged Alphabetically)

1. Accounting and Business Practice
2. Agricultural Economics (Farm Management)
3. Agricultural Engineering
   a. Agricultural Surveying
   b. Applied Mechanics and Design
   c. Highway Engineering
   d. Rural Architecture
4. Agronomy
5. Animal Husbandry
   a. Poultry Husbandry
6. Art
7. Bacteriology and Physiological Chemistry
8. Botany
9. Business Administration
10. Chemistry
11. Correspondence Studies
12. Dairy Husbandry
13. Economics
14. Education and Pedagogy
15. English and Public Speaking
16. Entomology
17. Farm Management, Extension
18. Farm and Auto Mechanics
   a. Auto Mechanics
   b. Farm Mechanics
   c. Ignition, Starting and Lighting
   d. Oxy-acetylene, Electric Arc and Resistance Welding
   e. Tractor Repair and Operation
   f. Vulcanizing and Tire Repair
19. Foods and Dietetics
20. Geology
21. History
22. Home Management, Extension
23. Horticulture
24. Household Administration
25. Irrigation and Drainage
26. Junior Extension
27. Library Economy
28. Marketing (Including Advertising and Selling)
29. Mathematics
30. Mechanic Arts
   a. Forging and General Blacksmithing
   b. Machine Work
   c. Mechanical Drawing
   d. Woodwork and Housebuilding
31. Methods of Experimentation and Extension
32. Military Science and Tactics
33. Modern Languages and Latin
34. Music
35. Physical Education
   a. For Men
   b. For Women
36. Physics
37. Physiology and Hygiene
38. Political Science
39. Range Management
40. Sociology
41. Stenography and Typewriting
42. Textiles and Clothing
43. Veterinary Science
44. Zoology

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

ACCOUNTING AND BUSINESS PRACTICE

P. E. Peterson, Professor  
W. E. Thain, Assistant Professor.

JUNIOR COLLEGE COURSES

1. TECHNIC OF BOOKKEEPING. Development of the principles of debit and credit, functions of the account, technic of recording the business transactions in the records, preparation of statements and closing the books. Two lectures, six hours practice work each week. Four credits.

   Sec. 1. Fall quarter, Lec. T. Th. 2:00. Practice hours any days from 2:00 to 5:00. Room 302 Main.  
   Thain

   Sec. 2. Winter quarter, Lec. M. W. 2:00. Practice hours any day from 2:00 to 5:00. Room 302 Main.  
   Peterson

2. BOOKKEEPING AND ACCOUNTING PRACTICE. A continuation of Accounting 1, introducing more advanced technic, such as controlling accounts, accruals, deferred items, depreciation, special columns and special journals, departmentalization, etc. Partnership accounting is also taken up. Prerequisite, Accounting 1. Two lectures, six hours practice work each week. Four credits.

   Sec. 1. Winter quarter, Lec. T. Th. 2:00. Practice hours any days from 2:00 to 5:00. Room 302 Main.  
   Thain

   Sec. 2. Spring quarter, Lec. M. W. 2:00. Practice hours any days from 2:00 to 5:00. Room 302 Main.  
   Peterson

3. CORPORATION AND FACTORY ACCOUNTING. Accounts peculiar to corporations, as accounting for capital stock, treasury
stock, surplus, reserves, dividends, etc. Voucher accounting. Accounting for manufacturing enterprises where no cost system is in use. Prerequisites, Accounting 1, and 2. Two lectures, six hours practice work each week. Four credits.

Sec. 1. Spring quarter. Lec. T. Th. 2:00. Practice hours any day from 2:00 to 5:00. Room 302 Main.

Thain

   (Not given in 1925-26.)

5. Farm Bookkeeping. Principles of bookkeeping and accounting as applied to the special needs of different types of farming. Single and double entry. Two lectures, six hours practice work each week. Practice hours to be arranged with instructor. Will be given if six or more students apply.

Thain

11. Factory Accounting. An elementary study of the principles and methods of cost accounting and their application to a specific problem. This course is a prerequisite for Accounting 111 and 112. Two lectures, six hours practice work each week. Prerequisite, Accounting 1, 2, 3. Spring quarter. Four credits.

Lec. M. W. F. 9:00. Room 302 Main.

Thain

21. Accounts of Building and Loan Associations, Banks and Trust Companies.
   (Not given in 1925-26.)

31. Retail and Department Store Accounting.
   (Not given in 1925-26.)

41. 42. Intermediate Accounting Problems. Problems will cover the opening and closing of the books, adjusting entries, preparation of statements of different lines of business and for different purposes, analysis of statements, and fiduciary accounts. Prerequisites, Accounting 1, 2, and 3. Fall and Winter quarters. Three credits.

M. W. F. 9:00. Room 302 Main.

Thain
51. **Dairy Manufacturing Accounts.** Accounting methods for cheese and butter factories. Two sets will be worked, a simple double entry system and one in which the cost of manufacturing will be determined. The special accounting problems of the co-operative enterprise will be examined. Prerequisites Accounting 1 and 2. Two lectures, six hours practice work per week. Practice hours to be arranged with instructor. Spring quarter. Four credits.

(Not given 1925-26. Will be given 1926-27.)

**SENIOR COLLEGE COURSES**

101, 102, 103. **Principles of Accounting.** Essentially a course in theory with practice reduced to a minimum. Emphasis will be placed upon the interpretation of accounts. The course is intended to meet the needs of the general student, as well as those who are planning to enter the accounting profession. It is desirable that a general course in economics and Mathematics 60 precede this course. Graduate credit may be allowed for this course upon completion of additional work. Lectures and assigned problems. Fall, Winter and Spring quarters. Three credits each quarter.

Lec. T. Th. S. 9:00. Room 302 Main.  

**Peterson**

107. **Household Accounts.** The practical application of accounting principles and practice to home management. Lectures and assigned problems. Fall quarter. Four credits. Practice hours to be arranged with the instructor.

Lec. T. Th. 8:00. Room 302 Main. Lab. 3:00 to 5:00, any day. Room 301 Main.

**Peterson**

111, 112. **Industrial Accounting.** A detailed study of the principles of cost accounting as applied to various lines of industry. Particular stress will be laid upon methods of distribution of burden and wage systems. Problems will be used to illustrate the principles developed. Prerequisites, Accounting 11, 101, 102, 103 or equivalent. Winter and Spring quarters. Three credits each quarter.

Lec. M. F. W. 10:00. Room 302 Main.  

**Thain**
121. **Accounting Problems.** This course aims to develop analytical power, initiative and resourcefulness in the handling of accounting problems. The problems are largely drawn from the Institute examination. Prerequisites, Accounting 101, 102, 103 or their equivalent. (Alternates with course 122.) (Not given in 1925-26.)

122. **Accounting Problems.** This course aims to develop the application of accounting to special lines of business, such as railways, public utilities, financial institutions, etc. Prerequisites, Accounting 101, 102, 103 or equivalent. Lectures and assigned problems. Fall quarter.

  Lec. M. W. F. 10:00. Room 302 Main.

Thain

131, 132. **Auditing Theory and Practice.** A study of the principles of auditing with assigned problems. For senior students. A major subject for students who plan to enter the accounting profession. Graduate credit may be allowed upon completion of additional work. Two lectures and two practice periods. Fall and Winter quarters. Four credits each quarter. Practice periods to be arranged with the instructor.

  Lec. T. Th. 2:00. Lab. T. Th. 3:00 to 5:00. Room 302 Main.

Peterson

133. **Auditing Procedure.** The procedure in making an audit and the proper reporting of it constitute the major part of this course. Special points in the audit of different classes of business will be studied. Where possible the student will be given an opportunity to do actual field work. Graduate credit may be allowed upon the completion of additional work. Prerequisites, Accounting 131, 132. Four credits. Practice hours to be arranged with the instructor.

  Lec. T. Th. 2:00; Lab. T. Th. 3:00 to 5:00. Peterson

161. **Municipal Accounts.** A study of the accounting systems of cities, counties and states. The importance of the budget in municipal expenditures. A course in public finance should precede or parallel this course. Prerequisites, Accounting 101, 102 and 103 and Political Science 2. Lectures and assigned problems. Four credits.

(Not given in 1925-26.)
171. **Constructive Accounting and System Building.**
For Senior students. This course involves a general study of the various types of accounting systems, the determination of a proper classification of accounts and the designing of the necessary forms preparatory to their being submitted to the printer. Prerequisites, a thorough knowledge of accounts and Mechanical Drawing 41. Graduate credit may be allowed upon completion of additional work. Four credits. Spring quarter. Practice hours to be arranged with instructor.
(Not given in 1925-26.)

**Peterson**

181. **Budgets.** The course involves a very careful study of the need for budgetary control, of the preparation of departmental budgets and their co-ordination with the financial budget, the application of budgetary control to manufacturing, merchandising and non-commercial enterprises and of the estimated balance sheet and profit and loss statement. Fall quarter. Three credits. Prerequisites, Accounting 101, and 102 or their equivalent.

Lec. T. Th. S. 11:00.

**Peterson**

**OFFICE MANAGEMENT**

P. E. Peterson, **Professor.**
W. E. Thain, **Assistant Professor.**
Thelma Fogelberg, **Instructor.**

**JUNIOR COLLEGE COURSES**

1. **Calculator Operation.** Methods of correct addition on calculators. Accuracy and speed secured. Three practice hours each week. Fall quarter. One credit. Room 305 Main.
Sec. 1. M. W. F. 10:00.
Sec. 2. M. W. F. 2:00.

**Fogelberg**

2. **Calculator Operation.** Methods of multiplication, extending and checking invoices, and chain discount. Accuracy and speed secured. Three practice hours each week. Winter quarter. One credit. Room 305 Main.
Sec. 1. M. W. F. 10:00.
Sec. 2. M. W. F. 2:00.

**Fogelberg**
3. **CALCULATOR OPERATION.** Methods of subtracting and division. Accuracy and speed secured. Three practice hours each week. Spring quarter. One credit. Room 305 Main.

   Sec. 1. M. W. F. 10:00.
   Sec. 2. M. W. F. 2:00.

   **Fogelberg**

10. **MACHINE BOOKKEEPING—BURROUGHS.** Instruction in the correct operation of the Burroughs Posting Machine. Practice given in bank and ordinary retail store machine bookkeeping. Accuracy and speed secured. Four practice hours each week. Fall or winter quarter. One credit. Room 305 Main.

   Only six students can be accommodated. Time to be arranged with the instructor.

   Sec. 1. M. T. W. F. 10:00.
   Sec. 2. M. T. W. F. 2:00.
   Sec. 3. M. T. W. F. 3:00.

   **Fogelberg**

15. **MACHINE BOOKKEEPING—ELLIOT-FISHER.** Instruction given in the operation of the Elliot-Fisher bookkeeping machine. Five practice hours each week. Fall or winter quarter. One credit. Room 305 Main.

   Only three students can be accommodated.

   Sec. 1. Daily, except S. 10:00.
   Sec. 2. Daily, except S. 2:00.
   Sec. 3. Daily, except S. 3:00.

   **Fogelberg**

**SENIOR COLLEGE COURSES**

120. **OFFICE MANAGEMENT.** Study of office location, layout, equipment and administration; selection and training of employees; office records, filing methods. Prerequisite, Accounting 1 or 101. Three credits.

   (Not given in 1925-26.)

   **Thain**
MAJOR IN OFFICE MANAGEMENT

Subject to the approval of the Head of the Department a student may select from the following list of courses a major in Office Management and Secretarial Studies:

- Business Administration 1, 2
- Political Science, 1, 2, 3
- Office Management, 120
- Accounting, 181
- Business Administration 11
- Business Administration 113
- Stenography 101
- Business Administration 101, 105, 106
- Marketing 102, 103
- Marketing 161
- Marketing 162, 163

AGRICULTURAL ECONOMICS

FARM MANAGEMENT

*E. B. BROSSARD, Professor.
J. O. ELLSWORTH, Associate Professor.

Note: Students in either the School of Agriculture or the School of Commerce and Business Administration may major in this department.

Students in the School of Agriculture may present credits in any of the following courses toward their major: Agronomy 101, and 106; Animal Husbandry 1 and 102; Economics 1, 2, 3, 120 and 121; Horticulture 1, 2, 3; and Range Management 1. They will be required to take Agricultural Economics courses 101, 102, 103, 104, 105, 211, 212 and 213.

Students in the School of Commerce and Business Administration may submit credits in any of the following courses towards their major; Accounting 101, 102, 103, 104 and 105; Agronomy 101, 106, 114; Animal Husbandry 1 and 102; Business Administration 8; Economics 25, 30, 120, 121, 160, 167, 150 and 180; Horticulture 1, 2, 3; Marketing 71, 102, 103, 111, 131, 132, and 141; Political Science 104, 105 and 106; Range Management 1; and Sociology 101, 150, 160. All such students will be required to take Agricultural Economics courses 101, 102, 103, 104, 105, 211, 212 and 213.

*On leave of absence.
101. Principles of Agricultural Economics. A general course in the principles and problems of agricultural economics including production on the farms, consumption of the products of the farms and the distribution of the agricultural income. Prerequisites, Economics 1, 2, 3, or 120, 121. Winter quarter. Three credits.
   T. Th. S 8:00. Room 177 Main.

102. Farm Management. A general course in the principles of farm management. A study of the problems involved in choosing, buying, planning, organizing and managing a farm. Discussions of proper size, balance, diversity and quality of farm business; relation of livestock, crops, pastures and ranges; efficient use of equipment and man and horse labor. Prerequisites, Economics 1, 2, 3 or 120, 121; Animal Husbandry 1 or 102; and Agronomy 101 (or equivalent) and 106. Winter quarter. Three credits.
   Lec. T. Th. 9:00; Lab. T. 2:00 to 5:00. Room 177 Main.

103. Farm Cost Accounting. Theory of farm cost accounting combined with practice in keeping a simple yet complete set of farm cost accounts. This course stresses the analyzing and interpreting of results and their use in organizing and managing the farm business. Prerequisite, Agricultural Economics 102. Spring quarter. Three credits.
   Lec. T. Th. 9:00; Lab. F. 2:00 to 5:00. Room 177 Main.

104. Types of Farming. A study of the natural and economic factors affecting types of farming in Utah, the United States and other countries, to determine the most profitable types for given times and conditions, and the needed adjustments in types to meet changing conditions. Prerequisite, Agricultural Economics 102. Spring quarter. Three credits.
   Lec. T. Th. 9:00. Lab. T. 2:00 to 5:00. Room 177 Main.
105. **RURAL CREDITS.** 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, 2, and 3. Spring quarter. Three credits.

T. Th. S. 8:00. Room 177 Main.

**ELLSWORTH**

**GRADUATE COURSES**

206. **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 seniors and graduate students. Winter quarter. Two credits.

Th. 10:00 to 12:00. Room 177 Main.


Th. 2:00 to 5:00. Room 177 Main.

208, 209, 210. **RESEARCH.** Special investigations in Agricultural Economics or farm management. Only those senior or graduate students who present an acceptable plan for an investigation will be admitted. Fall, Winter and Spring quarters. Two to five credits each quarter. Three hours work each week for each credit hour granted.

Time and credit to be arranged with instructor. **ELLSWORTH**
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.
Th. 7:20 p.m. Room 177 Main.

Ellsworth

Agricultural Engineering (See Page 220)
Agricultural Surveying (See Page 220)
Applied Mechanics and Design (See Page 221)
Highway Engineering (See Page 223)
Rural Architecture (See Page 225)

AGRONOMY

GEORGE STEWART, Professor.
DON WARREN PITTMAN, Associate Professor.
DAVID STOUT JENNINGS, Associate Professor.
MOYER DELYN THOMAS, Associate Professor.
AARON F. BRACKEN, Assistant Professor.
DELMAR C. TINGEY, Instructor.

Note: Students who major in Agronomy are expected to take courses 1, 2 or 3, 106, 108, 109, 111, 112, 113, 104 or 110; one of these three: 114, 116, 117; and enough additional courses to make 30 credits. Irrigation 1 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.

JUNIOR COLLEGE COURSES

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 21, 22, 23. Winter quarter. Four credits.
   Lec. M. W. F. 9:00, Room 201 Plant Ind.; Lab. T. 2:00 to 5:00. Room 204 Plant Ind.
2. Root Crops. Sugar-beets, potatoes, mangles, turnips, other root crops, and beans; cultural methods, market types, and commercial possibilities are studied in detail. Must be preceded or accompanied by Botany 21, 22, 23. Fall quarter. Four credits.

Lec. M. W. F. 9:00. Room 201 Plant Ind.; Lab. T. 2:00 to 5:00. Room 204 Plant Ind.

Tingey and Stewart

3. Forage and Miscellaneous Crops. Alfalfa, clovers, grasses and other crops; methods of handling hay; meadow, and pasture management and soilin crops are discussed. Must be preceded or accompanied by Botany 21, 22, 23. Spring quarter. Four credits.

Lec. M. W. F. 9:00. Room 201 Plant Ind.; Lab. T. 2:00 to 5:00, Room 204 Plant Ind.

Stewart and Tingey

SENIOR COLLEGE COURSES

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 1 or 21. Winter quarter. Five credits.

Lec. M. T. W. F. 9:00. Lab. T. 2:00 to 5:00. Room 204 Plant Ind.

Pittman

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. Two credits.

Lec. Th. 11:00. Lab. W. 2:00 to 5:00. Room 204 Plant Ind.

Stewart and Tingey
105. Seed Analysis and Testing. Impurities of farm and garden seeds; methods of analysis and testing; the inspection and marketing of seeds. Prerequisites, Botany 21, 22, 23; Agronomy 1, 3 and 104. Not given except on application of two or more students who have open the same two laboratory periods of three hours each. Any quarter. Two to four credits. Two to four laboratory periods a week.

Time to be arranged.

Tingey

106. Soils. Review of the entire field of soil 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. Room 201 Plant Ind. Lab. Th. 2:00 to 5:00. Room 210 Plant Ind.

Pittman

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.

Note: Graduate students may obtain additional credit for extra work.

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

Pittman

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, Agronomy 1 or 101, Zoology 111; and Botany 21, 22, 23. Winter quarter. Four credits.

Note: Advanced students may obtain additional credit for extra work.

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

Stewart and Tingey
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. 
Lee. T. Th. 10:00. Room 201 Plant Ind. 

Pittman

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. Room 203, Plant Ind. 
The Department

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. 10:00. Room 201 Plant Ind. 
(Not given in 1925-26.)

116. Dry-Farming. Principles of dry-farming from practical and scientific standpoints; a survey of agricultural work in the Great Plains and 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. Room 201 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 developments; effect of the relative position of the large markets to agriculture, especially in Utah. Winter quarter. Two to five credits. Alternates with course 114. 
T. Th. S. 10:00. 

Stewart and Bracken
GRADUATE COURSES

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 6 and Geology 2. Spring quarter. Two or more credits in proportion to work done.

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

Pittman

211*. ADVANCED LABORATORY IN SOILS. Chemical and mechanical analysis or special laboratory work. Three hours or more any quarter. Credit in proportion to work. Hours to be arranged.

Pittman

213*. RESEARCH. Graduate students specializing in agronomy are required to do research in some branch of the subject. Open to approved seniors. Time and credit to be arranged with the instructors.

Stewart and Pittman

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 either bacteriology or geology. Open to approved senior college students. Spring quarter. Two to five credits.

T. Th. 11:00. Room 201 Plant Ind.

Stewart

*Students who are interested in technical study may be assigned to Experiment Station laboratories where they will be under the direction of Associate Professors Jennings or Thomas. Each of these men has been granted permission to teach one short course. Advanced students are referred to courses 219 and 220.
218. **Special Soil Problems.** Students desiring to make a special study of any particular soil problem will make a complete study of available literature on this problem under the supervision of the instructor and write a thesis. One to five credits. Prerequisite, 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. The theoretical aspects 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.

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 horizons, 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. Room 201 Plant Ind.

221. **Principles of Agronomic Research.** How to attack a research problem; securing reliable data; studying and analyzing data; writing a scientific paper. Required of graduates. Open to approved Seniors. Tues. Th. S. 10:00. Fall quarter.

Three credits.
230. **Thesis.** Organizing and prosecuting a thesis and supervision of problem. Any quarter. Two to five credits each quarter.

**Crops and Plant Breeding.**

*Stewart, Bracken, Tingey*

*Soils*  

*Pittman, Jennings, Thomas*

**Animal Husbandry**

*George B. Caine, Professor.*

*Alma Esplin, Assistant Professor.*

**Junior College Courses**

1. **Market Types.** The judging of market types of horses, cattle, sheep and swine. Some score card practice is given, but most of the work is comparative judging of groups of animals. Five credits.

   **Sec. 1.** Winter quarter, Lec. M. W. F. 10:00. Lab. W. F. 2:00 to 5:00. Room 208 Livestock.

   **Sec. 2.** Spring quarter, Lec. M. W. F. 11:00. Lab. W. F. 2:00 to 5:00. Room 208 Livestock.

2. **Breed Types.** The origin, history and characteristics of the different breeds of horses, cattle, sheep and swine, especial stress being laid upon their adaptability to western conditions. Fall quarter. Five credits.

   Daily except Sat. 10:00. Room 208 Livestock.

3. **Beef Cattle Production.** The practical methods of beef production, including a consideration of range practice, feeding for market, fitting for show and general care and management. Fall quarter. Three credits.

   T. Th. S. 9:00.
7. **Horse Husbandry.** Market types, handling of breeding and growing horses, fitting for show and sale and practical methods of handling and training horses. Spring quarter. Three credits.
   T. Th. S. 9:00.

8. **Swine Management.** The management of the breeding herd, fattening for market and fitting for show. Winter quarter. Three credits.
   T. Th. S. 9:00.

9. **Sheep Husbandry.** General care on range and farm, fattening for market, fitting for show and work in grading and sorting wool. Winter quarter. Three credits.
   T. Th. S. 9:00.

10. **Wool.** A brief review of the study of sheep: zoological position, the history of sheep and wool production, the fine wool sheep in Spain and their introduction into the United States. It includes also the physical and chemical structure of the wool fiber, wool sorting and grading, explanation of terms used in market reports, determination of shrinkage and relation of quality in raw wool to quality products of wool manufacture. Prerequisites, Chemistry 1 and 2, or 3, 4, and 5. Winter quarter.
    Hours to be arranged.

**SENIOR COLLEGE COURSES**

101. **Livestock Management.** Practice in care and management of livestock and fitting for show and sale. Open only to a limited number of advanced students in Animal Husbandry. Laboratory work at barns. Fall or Spring quarter. Credit and hours to be arranged.

……… and Caine
102. Practice Feeding. (Open only to students not majoring in Animal Husbandry.) How the animal uses its feed; classes of feeds, compounding of rations for different purposes and for different classes of animals. Prerequisites, Agronomy 1 and 3 or 101. Fall quarter. Five credits.
  Daily, except Saturday 8:00. Room 207 Livestock.

103. Animal Nutrition. The anatomy and physiology of the digestive system; the purpose of nutrition; the theory and practice of feeding, with special reference to Utah conditions. Prerequisites, Organic Chemistry or Physiology 1 and Agronomy 101. Winter and Spring quarters. Five credits each quarter.
  Daily except S. 8:00. Room 207 Livestock.

104. Laboratory Course. Laboratory work including the actual feeding of different classes of livestock for different purposes can be arranged for a limited number of students.
  Time and credit to be arranged.

105. Principles of Breeding and Herd Book Study. An application of the principles of breeding to practical breeding operations; the place of animal breeding on the farm; methods of selection; aids to selection; grading; cross breeding; line breeding; inbreeding; herd books; pedigrees of noted individuals of the important breeds. Prerequisite, Zoology 111 (Genetics.) Spring quarter. Five credits.
  Daily except S. 9:00. Room 207 Livestock.

106. Advanced Stock Judging. The judging of groups of animals of all classes. Attendance at the State Fair and at all accessible county fairs is required. Prerequisites, Animal Husbandry 1 and 2.
  Fall quarter. Three credits, Lab. M. T. Th. 2:00 to 5:00. Barns.
107. WOOL LABORATORY. Practice in scouring and grading wool. Caliper and microscopic measurement of wool fibers. Chemical study of wool, laboratory exercises and reading assigned. Prerequisites, Chemistry 1, 2 or 3, 4, 5. Winter quarter. Three credits.
Two lectures and one laboratory. Hours to be arranged.

120. RESEARCH. Advanced students may elect research work in any phase of animal husbandry. Time and credit to be arranged with the department.

125. SEMINAR. Round table discussions of current literature and special phases of animal husbandry and dairying by advanced students and instructors of the department. Fall, Winter and Spring quarters. One credit each quarter.
M. 2:00. Room 207 Livestock.

POULTRY HUSBANDRY
BYRON ALDER, Associate Professor.
W. H. WARNER, Assistant.

JUNIOR COLLEGE COURSES

1. GENERAL POULTRY. A study of breeds, judging, breeding, incubation, brooding, housing, feeding and marketing. Fall, Winter or Spring quarter. Four credits.
Lec. M. W. F. 11:00. Lab. M. 2:00 to 5:00. Room 205 Livestock.

2. GENERAL POULTRY. Same as Poultry 1, except that no laboratory work is given. Fall, Winter or Spring quarter. Three credits.
M. W. F. 11:00. Room 205 Livestock.

3. GENERAL POULTRY. This 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. Room 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. Room 205 Livestock.  
   *Alder*

5. **POULTRY MANAGEMENT.** The housing, care, feeding and management of different breeds under western conditions. Prerequisite, Poultry 1. Winter quarter. Two credits.
   (Not given in 1925-26.)

6. **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.
   Time to be arranged.  
   *Alder*

7. **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. Room 205 Livestock.  
   *Warner*

8. **TURKEYS, DUCKS AND GEESE.** A study of the breeds, breeding, feeding, marketing, etc. Winter quarter. Two credits.
   T. S. 10:00. Room 205 Livestock.  
   *Warner*

**SENIOR COLLEGE COURSES**

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

126. **SEMINAR.** Current poultry literature studied; assigned problems and special topics. Fall or Winter quarter. One credit.
   Time to be arranged.  
   *Alder and Warner*
AGRICULTURAL COLLEGE OF UTAH

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

Alder and Warner

ART

Calvin Fletcher, Professor.
H. R. Reynolds, Instructor.

JUNIOR COLLEGE COURSES

   Sec. 1. M. W. F. 10:00.
   Sec. 2. M. W. F. 11:00.
   Reynolds

2. Design. General principles of design in pattern and color, color theory, etc. Winter quarter. Room 330 M. Two credits.
   Sec. 1. M. W. F. at 10:00.
   Sec. 2. M. W. F. 11:00.
   Reynolds

3. Art Appreciation. Art principles as applied to costume, interior decoration, painting, sculpture and architecture will be discussed. Spring quarter. Room 330 M. Two credits.
   Sec. 1. M. W. F. 10:00.
   Sec. 2. M. W. F. 11:00.
   Reynolds

Art. 1, 2, 3 required of students in Home Economics.

31. Art in Commerce. Lettering, involving basic and commercial types, spacing as manifest in commercial forms and advertising, drafts, business letters, etc. Also color study will be taken up. Fall quarter. Three credits.
   T. Th. S. 8:00.

Fletcher
32. ART IN DISPLAY. Study of fundamental patterns for drapery, backgrounds, etc., window displays, posters and cards. Their value and selection, festal decoration, etc. Winter quarter. Three credits.
T. Th. S. 8:00. Room 355 Main.

Fletcher

33. COMMERCIAL ART APPRECIATION. Appreciation of personal appearance, environment, pictures, sculpture and architecture. Spring quarter. Three credits.
T. Th. S. 8:00. Room 355 Main.

Fletcher

Art 31, 32 and 33 planned primarily for Commercial students.

For art education see Department of Education.

For history of house and of furniture see Household Administration.

For costume design see Textiles Department.

SENIOR COLLEGE COURSES

114. HISTORY OF ART. History of painting, sculpture and architecture. Stereopticon used. Three credits. Fall quarter.
T. Th. S. 11:00. Room 355 Main.

Reynolds

107. AESTHETICS. The essentials common to all the arts. The basis of sound judgment and appreciation of poetry, painting, music, sculpture and architecture. Five credits.
(Not given in 1925-26.)

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. Room 355 Main for lecture.
Lec. T. Th. S. 9:00.

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. Room 355 Main for lecture. Three credits.

Lec. T. Th. S. at 9:00.

*Fletcher*

It is recommended that students elect 111 parallel or following Art 122 and 123.

124. **Perspective Theory.** The principles of cylindrical, parallel and oblique perspective as used in drawing will be covered. Spring quarter.

T. Th. S. 9:00.

(Not given in 1925-26.)

**STUDIO COURSES**

This work is 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.

**JUNIOR COLLEGE COURSES**

4. **Drawing.** Free hand drawing from still life, cast and nature. Maximum 15 credits. Room 330 any day except Thursday and Saturday.

M. T. W. F. 2:00 to 5:00.

*Fletcher*

5. **Elementary Painting.** In water color, oil, or pastel. Maximum 15 credits. Room 330 E.

M. T. W. F. 2:00 to 5:00.

*Fletcher*
   M. T. W. F. 2:00 to 5:00.  
   *Fletcher*

7. **Illustration.** Elementary illustration and processes for newspapers, books and magazines. Maximum 12 credits. Room 355 E.
   M. T. W. F. 2:00 to 5:00.  
   *Fletcher*

8. **Embroidery Design.** Design for embroidery, lace weaving, etc. Maximum 6 credits.
   M. T. W. F. 2:00 to 5:00.  
   *Reynolds*

9. **Historic Ornament.** Egyptian, Assyrian, Greek, French and Renaissance may be studied. Maximum 9 credits. Room 330 E.
   M. T. W. F. 2:00 to 5:00.  
   *Reynolds*

10. **Show Card and Elementary Sign Lettering.** Maximum 12 credits. Room 330 D.
    M. T. W. F. 2:00 to 5:00.  
    *Fletcher*

11. **Pottery.** Elementary, including building, turning, glazing, firing, etc., such as may be done with a limited equipment. Maximum 2 credits. Room 328.
    M. T. W. F. 2:00 to 5:00 and T. Th. 10:00 to 1:00.  
    *Reynolds*

12. **China Painting.** Elementary painting processes. Prerequisites Art 1, 2, 3 or equivalent. Maximum 12 credits.
    M. T. W. F. 2:00 to 5:00.  
    *Fletcher*

    M. T. W. F. 2:00 to 5:00 and T. Th. 10:00 to 1:00.  
    *Reynolds*
14. **LEATHER WORK.** Elementary etching, dying, cutting and tooling in leather mats, purses, bags, etc. Maximum 6 credits. Room 330 A.
   M. T. W. F. 2:00 to 5:00 and T. Th. 10:00 to 1:00.

*Reynolds*

15. **BASKETRY.** Weaving processes in reed, raffia and grass. Maximum 9 credits. Room 330 A.
   M. T. W. F. 2:00 to 5:00 and T. Th. 10:00 to 1:00.

*Reynolds*

16. **ENAMELING.** Work on glass, wood, ivory, etc. Maximum 9 credits. Room 330 A.
   M. T. W. F. 2:00 to 5:00 and T. Th. 10:00 to 1:00.

*Reynolds*

17. **FABRIC DECORATION.** Elementary stencilling, tie and dye, block-printing, and Batik. Maximum 9 credits. Room 330 A.
   M. T. W. F. 2:00 to 5:00 and T. Th. 10:00 to 1:00.

*Reynolds*

**SENIOR COLLEGE COURSES**

106. **ADVANCED DRAWING.** Life drawing from draped figures, animal drawing, and advanced antique. Maximum 15 credits. Room 330 E.
   M. T. W. F. 2:00 to 5:00.

*Fletcher*

108. **ADVANCED PAINTING.** Oil, water color, or pastel may be used. Maximum 30 credits.
    M. T. W. F. 2:00 to 5:00.

*Fletcher*

109. **ADVANCED MODELING.** From animals or living models.
    Room 328. Maximum 30 credits.
    M. T. W. F. 2:00 to 5:00.

*Fletcher*
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. Room 330 E.

   M. T. W. F. 2:00 to 5:00.

   *Fletcher*

111. **Professional Design.** Design for textiles, wallpaper, interior decoration, furniture, etc. One line to be taken at a time. Maximum 12 credits. Room 330 E.

   M. T. W. F. 2:00 to 5:00.

   *Fletcher*

112. **Advanced Costume Design.** Prerequisites, Textiles 105 and 111. Maximum 6 credits. Room 330 F.

   M. T. W. F. 2:00 to 5:00.

   *Fletcher*

113. **Advanced Show Card and Technical Sign Work.** Maximum 12 credits. Room 330 D.

   M. T. W. F. 2:00 to 5:00.

   *Fletcher*

114. **Fancy Lettering and Illumination.** Pen lettering and decoration for memorials, documents, Christmas greetings, place cards, etc. Maximum 12 credits.

   M. T. W. F. 2:00 to 5:00 and T. Th. 10:00 to 1:00.

   *Reynolds*

115. **Advanced China Decoration.** Incrusted work, enamelling, lustre, and paste to be taken up. Maximum 15 credits. Room 330 A.

   M. T. W. F. 2:00 to 5:00.

   *Fletcher*


   M. T. W. F. 2:00 to 5:00 and T. Th. 10:00 to 1:00.

   *Reynolds*
117. JEWELRY. Sawing, wire work, filigree, stone setting, enameling, soldering, etc., will be taken up with broaches, rings, lavaliers, pins, chains, etc. Maximum 18 credits. Room 332. M. T. W. F. 2:00 to 5:00 and T. Th. 10:00 to 1:00.

Reynolds

118. ADVANCED LEATHER WORK. Tooling, carving, mounting and finishing. Maximum 12 credits. Room 330 A. M. T. W. F. 2:00 to 5:00. T. Th. 10:00 to 1:00.

Reynolds

119. ADVANCED WOOD ORNAMENTATION. Carving, inlay, scraffito, jesso, etc. Maximum 18 credits. Room 332. M. T. W. F. 2:00 to 3:00. T. Th. 10:00 to 1:00.

Reynolds

120. ADVANCED FABRIC DECORATION. Advanced work in Batik, dying, stencilling and block-printing. Maximum 15 credits. Room 330 A. M. T. W. F. 2:00 to 5:00. T. Th. 10:00 to 1:00.

Reynolds

GRADUATE COURSES

206. ADVANCED DRAWING. From animals, life and close anatomical analysis. Room 330 E. M. T. W. F. 2:00 to 5:00.

Fletcher

208. ADVANCED PAINTING. Landscape or portrait may be pursued. M. T. W. F. 2:00 to 5:00. Room 330 E.

Fletcher

209. ADVANCED MODELING. Original projects in sculpture to be carried out. M. T. W. F. 2:00 to 5:00. Room 328.

Fletcher

211. PROFESSIONAL DESIGN. Interior decoration, or commercial design may be taken up. Room 330 F. M. T. W. F. 2:00 to 5:00.

Fletcher
BACTERIOLOGY AND PHYSIOLOGICAL CHEMISTRY

J. E. Greaves, Professor.
Ezra G. Carter, Assistant Professor.

JUNIOR COLLEGE COURSES

1. GENERAL BACTERIOLOGY. Biology and significance of bacteria. The relationship of bacteria to the arts, industries, and disease are considered. Where possible this should be accompanied by Bacteriology 2.
   Sec. 1. Fall quarter. Three credits.
   M. W. F. 10:00. Third floor, Widtsoe Hall.
   Greaves

   Sec. 2. Winter quarter. Three credits.
   T. Th. S. 9:00. Third floor, Widtsoe Hall.
   Greaves

2. GENERAL BACTERIOLOGY. Laboratory work which should accompany Bacteriology 1. Breakage deposit, $2.50.
   Sec. 1. Fall quarter. Two credits.
   W. F. 2:00 to 5:00. Third floor, Widtsoe Hall.
   Carter

   Sec. 2. Winter quarter. Two credits.
   W. F. 2:00 to 5:00. Third floor, Widtsoe Hall.
   Carter

3. PATHOGENIC BACTERIOLOGY. The pathogenic bacteria are considered in relation to specific diseases, especially with regard to immunity. Prerequisite, Bacteriology 1. Breakage deposit, $2.50. Winter quarter. Five credits.
   Lec. M. W. F. 9:00. Lab. W. F. 2:00 to 5:00.
   Third floor, Widtsoe Hall.
   Greaves and Carter
102. **Soil Bacteriology.** Bacteria considered in relation to soil fertility. Not given in 1925-26 unless called for by at least ten properly prepared students. Prerequisite, Bacteriology 1. Fall quarter. Three credits.
   T. Th. S. 9:00. Third floor, Widtsoe Hall.

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.
   T. Th. 2:00 to 5:00. Third floor, Widtsoe Hall.
   (Not given in 1925-26.)

104. **Dairy Bacteriology.** (Lecture). The bacteria of milk, butter and cheese. Prerequisite, Bacteriology 1. Spring quarter. Two credits.
   T. Th. 8:00. Third floor, Widtsoe Hall.

105. **Dairy Bacteriology.** (Laboratory). Methods used in the bacteriological examination of milk and dairy products. Should accompany Bacteriology 104. Prerequisites, Bacteriology 1 and 2. Breakage deposit, $2.50. Spring quarter. Two credits.
   T. Th. 2:00 to 5:00. Third floor, Widtsoe Hall.

106. **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.

110. **Sanitary Statistics.** Vital statistics showing effect of sanitary precautions upon health in cities and rural communities. Prerequisites, Bacteriology 1 and 108. Fall quarter. Two credits.
   T. Th. 8:00. Third floor, Widtsoe Hall.
111. **Physiological Chemistry.** The transformation going on in the plant and animal. Prerequisites, Chemistry 21 and 22. Spring quarter. Daily except Saturday, 9:00. Five credits. Third floor, Widtsoe Hall.

**Greaves**

112. **Physiological Chemistry.** A laboratory course which may accompany Bacteriology 111. Breakage deposit, $2.50. Spring quarter. Two credits. T. Th. 2:00 to 5:00. Third floor, Widtsoe Hall. (Not given in 1925-26.)

**Greaves**

**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. Third floor, Widtsoe Hall

**Greaves and Carter**

208, 209, 210. **Seminar.** Fall, Winter and Spring quarters. Two credits each quarter. Time to be arranged. Third floor, Widtsoe Hall.

**Greaves and Carter**

216. **Advanced Biochemistry.** Bacteriological and chemical methods used in the diagnosing of disease. Time and credit to be arranged. Third floor, Widtsoe Hall.

**Carter**

**BOTANY**

B. L. Richards, Professor.
L. F. Nuffer, Assistant Professor.
H. L. Blood, Instructor.

Botany 21, 22, 23, 101, 120, 130, 131, 240, 241, 242 or equivalent required of students majoring in Botany.
1. **General Botany.** A brief survey of the field of plant life; the nature and development of plants, plant parts and their functions; the food of the plants; the relation of plants to human needs; noteworthy wild and cultivated plants. Five credits.

   Sec. 1. Fall quarter, Lec. M. W. F. 9:00. Lab. T. Th. 2:00 to 5:00 or W. F. 2:00 to 5:00. Rooms 101, 102, Plant Ind.
   Richards and Blood

   Sec. 2. Spring quarter. Lec. M. W. F. 9:00. Lab. T. Th. 2:00 to 5:00, or W. F. 2:00 to 5:00. Rooms 101-102 Plant Ind.
   Richards and Blood

   Sec. 3. Spring quarter. Lec. T Th. S. 9:00. Labs. as in Section 2. Rooms 101-102 Plant Ind.
   Richards and Blood

21. **General Agricultural Botany.** Plant physiology, anatomy, morphology and classification. Plant physiology in relation to crop production is the basis of this course. Designed especially for students in agriculture. Required for a major or minor in Botany. Fall quarter. Five credits.

   Lec. Sec. 1. M. W. F. 8:00. Sec. 2. T. Th. S. 8:00. Lab. M. and Th. or W. and F. Rooms 101-102 Plant Ind.
   Richards and Nuffer

   Richards and Nuffer

   Richards and Nuffer

   *Students may register for Botany 22 and 23 without Botany 21 only by permission.*
SENIOR COLLEGE COURSES

101. Flowering Plants. Our common plants and their systematic relationships; special emphasis given to economic plants. Two lectures and one laboratory period. Prerequisite, Botany 1 or 21. Zoology 1 or 3 preferred. Three credits. Spring quarter.

Lec. T. Th. 10:00. Lab. T. 2:00 to 5:00. Rooms 101-103 Plant Ind.

Nuffer

102. A continuation of course 101, extending through the summer. A consideration of the general summer flora of particular families and their distribution. A laboratory course. Prerequisite, Botany 101. Two to five credits, according to work done.

Nuffer

105. Agrostology. A taxonomic consideration of the grasses and their distribution and importance. Two credits. One lecture and one laboratory period. Prerequisite, Botany 101, Lec. T. 11:00. Lab. T. 2:00 to 5:00. Fall quarter.

Nuffer

111. Morphology. Life, history and classification of plants representative of the four big groups. The course embraces a general survey of the representative reproductive structures and processes in plants, from the bacteria to the higher seed plants. It aims to give a broad view of the trend of evolution as well as appreciation of the natural relation of living plant forms. Spring quarter. Three lectures and two laboratory periods. Five credits.

(Not given in 1925-26.)

Richards

116. Materials and Methods of Botanical Technic. Collections and preservation of botanical specimens. Preparation of botanical materials and slides for class room study and exhibition purposes. Designed particularly for research students and for teachers of Botany. Prerequisite, Botany 1 or 21. A laboratory course. Any quarter. Two to five credits. Room 110 Plant Ind.

(Not given in 1925-26.)

Richards
118. **ENGINEERING BOTANY AND DENDROLOGY.** Principles of botany necessary for an understanding of wood; structures and properties of wood; economic woods; their identification and uses. Three lectures and two laboratory periods. Winter quarter. Five credits.

(Not given in 1925-26.)

120. **PLANT PHYSIOLOGY.** An advanced course dealing with the water relations of plants; absorption, metabolism, growth and factors affecting each. Prerequisites, Botany 21, 22 and 23. Three credits. Fall quarter. T. Th. S. 9:00. Room 101 Plant Ind.

(Not given in 1925-26.)

125. **ECOLOGY.** The distribution and adaptation of plants as affected by the environmental factors. Fall quarter. Three credits. T. Th. S. 9:00. Room 101 Plant Ind. Lectures will be correlated with laboratory work and occasional field trips.

(Not given in 1925-26.)

130. **PLANT PATHOLOGY.** Fundamental principles underlying disease in plants. Types of diseases, their nature, cause, and control are so studied as to give the student a comprehensive view of the subject of plant pathology. Required for all other courses in Pathology. Prerequisites, Botany 1 or 21, 22, 23. Fall quarter. Four credits.

Lec. T. Th. 11:00. Lab. M. Th. 2:00 to 5:00. Rooms 101-110 Plant Ind.

Richards

131. **FIELD AND TRUCK CROP DISEASES.** This course will include the diseases of cereals, sugar beet, potato, alfalfa, tomato, pea, bean and related crops. Prerequisite, Botany 130. Winter quarter. Four credits.

Lec. T. Th. 11:00. Lab. M. Th. 2:00 to 5:00. Rooms 101-102 Plant Ind.

Richards
132. Orchard and Small Fruit Diseases. Prerequisite Botany 130. Lectures to be arranged. Lab M. Th. 2:00 to 5:00.

Richards

133. Forest Pathology. Consists of a detailed study of the nature, cause, and control of the various diseases underlying decay of forest timber. Special attention will be given also to industrial problems connected with the staining, rotting and preservation of wood in its various commercial forms. Winter quarter. Four credits.

(Not given in 1925-26.)

Richards

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

Time to be arranged.

Richards

GRADUATE COURSES

221. Pathological Technic. Fundamental principles of photography and micrography as applied to advanced work in biology and plant pathology. Special attention is given to photomicrography and lantern slide production. One lecture and two laboratory periods. Winter quarter. Three credits.

(Not given in 1925-26.)

Richards

222. A continuation of Course 221. Special cultural methods as applied to Plant Pathology and related subjects. Students may register for course 221 and 222 only by special permission. Two to five credits. According to work done. Winter or spring quarter.

(Not given in 1925-26.)

Richards


(Not given in 1925-26.)

Richards
240, 241, 242. SEMINAR. Fall, Winter and Spring quarters. One credit each quarter. Time to be arranged. Room 101 Plant Ind.  
Richards and Nuffer

250. RESEARCH. Open to all qualified Senior College students. Time and credit to be arranged.  
Richards and Nuffer

BUSINESS ADMINISTRATION

W. L. WANLASS, Professor.
P. E. PETERSON, Professor.
M. H. HARRIS, Professor.
W. E. THAIN, Assistant Professor.
LEON D. HARDY, Assistant Professor.

JUNIOR COLLEGE COURSES

1, 2. PRINCIPLES OF BUSINESS. An introductory course in which a study of the fundamental principles underlying the organization, financing and managing of business activity is made, preparatory to more intensive study in the advanced courses in this department. Fall and Winter quarters. Three credits each quarter.
M. W. F. 10:00. Room 280 Main.
(Not open to Freshmen.)  
Wanlass and Peterson

3. CREDITS AND COLLECTIONS. After a study of the nature and importance of credit in the modern business world, careful attention will be given to the practical work of the credit man and credit department. Consideration will also be given to credit institutions, credit forms, statements, methods of collection and legal remedies. Prerequisites, Economics 1, 2, 3 and Business Administration 1, 2. Spring quarter. Three credits.
M. W. F. 10:00. Room 280 Main.
(Not open to Freshmen.)  
Wanlass
101. **Approach to Business Problems.** This course aims at such a classification of business activities as to provide the student of business with a scientific method of approach to the solution of business problems in whatever form they may arise, and to illustrate to them the application of this method to typical cases. It is intended to serve as a guide to the study of the more specific problems of factory, retail store, and sales management. Fall quarter. Three credits.

(Not given in 1925-26.)

*Peterson*

104. **Business Finance.** Various types of business organization will be considered and attention given to the methods of providing capital and managing the current finances. This will be done through the use of actual problems. Special consideration given to the financing of small rural enterprises. Prerequisites, Economics 1, 2, 3 or 120, 121, and Business Administration 1, 2. Fall quarter. Three credits.

M. W. F. 10:00. Room 361.

*Harris*

105, 106. **Modern Scientific Management.** A careful study will be made of the principles and the advantages and disadvantages of scientific management. Prerequisites, Economics 1, 2, 3 or 120, 121. Winter and Spring quarters. Three credits each quarter.

T. Th. S. 11:00.

*Peterson*

107. **Personnel Management.** Labor problems studied from the standpoint of the employer. Special consideration given to the principles of executive control, hours of work, working conditions and various methods of attaining greater efficiency. Prerequisites, Economics 1, 2, 3 or 120, 121, and Business Administration 1, 2. Fall quarter. Three credits.

M. W. F. 8:00. Room 302 Main.

*Thain*
111. BUSINESS AND AGRICULTURAL STATISTICS. Consideration will be given to the meaning and application of statistics, statistical methods, sources of statistical information and the formulation of business barometers. Prerequisites, Economics 1, 2, 3 or 120, 121 and Business Administration 1, 2. Alternates with Business Administration 113. Fall quarter. Three credits. Hardy

M. W. F. 9:00.

112. INVESTMENTS. This course takes up a study of the different classes of securities on the market from the standpoint of their desirability as investments. Analysis of the factors of safety. Determination of the income yield. Types of investments suitable for the different classes of investors. Business Administration 104 and a general course in accounting should precede this course. Winter and Spring quarters. Three credits each quarter.

(Not given in 1925-26.)

113. 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 forecasting, the business cycle and the various business barometers. Prerequisites, Economics 1, 2, 3 or 120, 121 and Business Administration 1, 2. Alternates with Business Administration 111. Fall quarter. Three credits. Wanlass

(Not given in 1925-26.)

115. PURCHASING. Much has been written concerning the production and sales activities of business. Why is not business success dependent upon scientific purchasing of the commodities to be sold? With that thought in mind, this course will include a study of the proper organization and management of the purchasing department; the quantity to buy; the time to buy; and the place to buy. A study of store systems will also be taken up. Three credits. Spring quarter. Thain

M. W. F. 8:00. Room 302 Main.
120. DOMESTIC AND FOREIGN EXCHANGE. Since the establishment of the Federal Reserve System, great changes have been made in the methods and facilities for financing commercial transactions. The aim of this course will be to give students a working knowledge of the theory and practice of both domestic and foreign exchange. Prerequisites, Economics 1, 2, 3 or 120, 121, and Business Administration 1, 2. Three credits. Winter quarter.
  M. W. F. 9:00. Room 280 Main.

125. RAILROADS. After a general study of the economics of transportation, special attention will be given to railroad traffic and service, determination of rates, management and public regulation. Prerequisites, Economics 1, 2, 3 or 120, 121 and Business Administration 1, 2. Three credits. Spring quarter.
  M. W. F. 9:00. Room 280 Main.

131. INSURANCE AND RISK-BEARING. The hazards of business and the means the business man takes to protect himself against unforeseeable losses. The principles underlying life, fire, accident, credit, and title insurance and bonding are discussed. Prerequisites, Economics 1, 2, 3 or 120, 121. Winter quarter. Three credits.
  M. W. F. 8:00. Room 302 Main.

140. BUDGETARY CONTROL. (See Accounting 181.)

GRADUATE COURSE

211. ADVANCED PROBLEMS IN BUSINESS ADMINISTRATION. It will be the aim of this course to apply the principles of economics and business to problems that have actually arisen in the conduct of business. In addition to these cases, each student will select a major problem requiring research work. This work may be used to satisfy the thesis requirements for the master's degree. Open only to seniors and graduates who have had satisfactory preliminary training. Winter and Spring quarters. Three credits each quarter.
  T. 2:00 to 4:00. Room 280 Main.
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, 160 and six additional hours of senior college work are required for a major.

**JUNIOR COLLEGE COURSES**

1, 2. **INORGANIC CHEMISTRY.** The properties and preparation of the elements and their ordinary compounds. The quantitative laws of chemical combination and their applications. The effects of temperature and concentration in displacing chemical equilibria. Second floor, Widtsoe Hall.

- **Sec. 1.** Fall and Winter quarters. Five credits each quarter. Lec. T. Th. S. 8:00. Lab. W. F. 2:00 to 5:00.  
  **Hill**

- **Sec. 2.** Fall and Winter quarters. Five credits each quarter. Lec. M. W. F. 8:00. Lab. T. Th. 2:00 to 5:00.  
  **Maeser**

- **Sec. 3.** Winter and Spring quarters. Five credits each quarter. Lec. M. W. F. 11:00. Lab. M. W. 2:00 to 5:00.  
  **Maeser**

3, 4, 5. **INORGANIC CHEMISTRY.** A more complete course in organic chemistry, including a beginning in qualitative analysis. Prerequisites, high school chemistry or physics. Fall, Winter and Spring quarters. Five credits each quarter. M. W. F. 9:00. Lab. T. Th. 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 1, 2, or 3, 4, 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.

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, Inorganic Chemistry. Fall and Winter quarters. Five credits each quarter.

M. W. F. 10:00. Lab. W. and F. 2:00 to 5:00. Second floor, Widtsoe Hall.

26. Organic Chemistry. A brief course for students not majoring in chemistry and who have insufficient time for a more complete course. Students majoring in foods or nutrition or who desire premedical credit should register for courses 21 and 22. Spring quarter. Five credits. Prerequisites Inorganic Chemistry.

Lec. M. W. F. 9:00; Lab. T. Th. 2:00 to 5:00.

SENIOR COLLEGE COURSES

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. Second floor, Widtsoe Hall.

Hirst

104, 105, 106. Physical Chemistry. (See Physics 104, 105, 106.)

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. Prerequisite, Chemistry 22. Fall and Winter quarters. Three credits each quarter. Second floor, Widtsoe Hall.

Lec. T. 10:00. Lab. W. Th. 2:00 to 5:00.

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. Prerequisites, Chemistry 22. Textiles and Clothing 20, 21. Spring quarter. Three credits. (Not given in 1925-26.)

111, 112. **Organic Chemistry.** A senior college course in organic chemistry paralleling Chemistry 21, 22, but requiring extra reports and outside reading. Fall and Winter quarters. (Not given in 1925-26.)

113. **General Organic Reactions.** The more important reactions employed in synthetic organic chemistry. Prerequisite, Chemistry 22. Spring quarter. Five credits. 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.

115. **Organic Preparations.** An advanced laboratory course in practical laboratory methods of synthetic organic chemistry. Prerequisites, Chemistry 22, and 103. Fall or Winter quarter.

Credit and hours to be arranged.

120. **Special Course in Quantitative Analysis.** Prerequisite, Chemistry 103. Fall, Winter or Spring quarters.
Time and credit to be arranged with instructor.
D. Urine analysis. E. Gas analysis. Time to be arranged.

160. Chemistry Seminar. Advanced topics in chemistry. Required of all juniors and seniors majoring in chemistry. Fall, Winter and Spring quarters. One hour credit for the three quarters. Hours to be arranged.

180. Research. Senior or graduate students majoring in chemistry may elect research in any branch of the subject. Time and credit to be arranged with the instructor.

DAIRY HUSBANDRY

GEORGE B. CAINE, Professor.
*GUSTAV WILSTER, Professor.

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Instructor.

Students majoring in dairy manufacturing must complete the following courses before graduation: Dairy Husbandry 2, 101, 103, 104, 105, 110, 111; Chemistry 107, 108 Dairy Chemistry; Bacteriology 104, 105, Dairy Bacteriology; Accounting 51, Dairy Manufacturing Accounts; Marketing 102, Advertising. In addition, students must have had at least six months of practical work under the direction of the dairy department in an accredited dairy manufacturing establishment before graduation. No credit is given for this work.

JUNIOR COLLEGE COURSES

1. Elements of Dairying. The secretion and composition of milk; the chemical and physical properties of milk; testing milk and cream for fat and adulterants; dairy sanitation; separation; pasteurization; making of butter, cheese, and ice cream; food value of milk and milk products. Course completed in one

*Absent on leave.
quarter. Students should provide themselves with white aprons. Four credits. Fall or Winter quarter. Room 208 Livestock.
Fall quarter, Lec. M. W. F. 8:00. Lab. T. 2:00 to 5:00.
Winter quarter, Lec. M. W. F. 9:00. Lab. T. 2:00 to 5:00.

2. MARKET MILK. The production of sanitary milk, handling of milk at a city milk plant; inspection methods; marketing of milk. Winter quarter. Three credits.
Lec. T. Th. 9:00. Lab. M. 2:00 to 5:00. Room 208 Livestock.

3. DAIRY TECHNOLOGY. The manufacture of dried and condensed milk, milk sugar, casein, fermented milk, oleomargarine, renovated butter, preparation of various milk drinks. Spring quarter. Two credits.
Hours to be arranged.

4. ICE CREAM AND ICES. The manufacture of standard kinds of ice cream and ices. Prerequisite, Dairy Husbandry 1. Spring quarter. Three credits.
Lec. T. Th. 9:00. Lab. T. 2:00 to 5:00. Room 208 Livestock.

5. DAIRY ENGINEERING. A study of the machines used in the various dairy plants, such as boilers, engines, motors, refrigerating machines, separators, pasteurizers, freezers and churns. Fall quarter. Three credits.
M. W. F. 10:00. Room 208 Livestock.

6. DAIRY ARITHMETIC. Problems in testing and standardizing, figuring overrun, figuring cost of manufacturing and marketing of dairy products. Fall quarter. One credit.
Friday 11:00. Room 208 Livestock.
7. **Varieties of Cheese.** The manufacture of standard kinds of soft cheese and some foreign and domestic varieties such as Edam, Brick, Limburger. Fall quarter. Two credits.
   Lec. Th. 9:00. Lab. M. 2:00 to 5:00. Room 208 Livestock.

8. **Creamery Practice.** Any quarter. Time and credit to be arranged. Dairy laboratory.

   M. W. F. 9:00. Room 208 Livestock. 

**SENIOR COLLEGE COURSES**

   Lec. T. 11:00. Lab. W. 2:00 to 5:00.

   T. 11:00. Dairy Laboratory.

103. **Buttermaking.** The manufacture of creamery butter. Designed to meet the needs of the creameryman. Prerequisite or parallel, Dairy Husbandry 1. Winter quarter. Five credits. Room 208 Livestock.
   Lec. M. W. F. 8:00. Lab. F. 2:00 to 5:00 and S. 8:00 to 11:00.

104. **Cheddar Cheese Making.** Manufacturing and curing of American Cheddar Cheese. Prerequisites or parallel, Dairy Husbandry 1. Fall quarter. Four credits. Room 208 Livestock.
   Lec. M. W. 11:00. Lab. T. 11:00 to 5:00.
105. **Management of Dairy Plants.** Organization and construction of dairy plants; efficient methods in the manufacture of dairy products; marketing; profit obtained; advertising; accounting. Each student will keep the Dairy Department books for one month. Prerequisite, Dairy Husbandry 1. Spring quarter. Five credits.

Lec. M. W. F. S. 8:00. Room 208 Livestock. One three-hour lab. Time to be arranged.

110. **Dairy Production.** A brief review of dairy breeds, ways of starting dairy herds, systems of herd records, calf breeding and management, dairy herd feeding, housing and management. Laboratory exercises in judging, fitting for show, official testing, calf feeding, etc. Spring quarter. Five credits.

Lab. time to be arranged.
Daily, except Saturday 10:00. Room 208 Livestock.


Friday 2:00 to 5:00.

115. **Dairy Seminar.** Discussions and reports of current literature. Time and credit to be arranged.

GRADUATE COURSE

216. **Research.** Special problems in connection with dairy production and the manufacture of butter, cheese and ice cream. Open to advanced undergraduates. Any quarter. Time and credit to be arranged.
136

AGRICULTURAL COLLEGE OF UTAH

ECONOMICS

M. H. HARRIS, Professor.
W. L. WANLASS, Professor.
E. C. BRANSON, Professor.
LEON D. HARDY, Assistant Professor.
J. O. ELLSWORTH, Instructor.

JUNIOR COLLEGE COURSES

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. Room 280 Main. Harris and Wanlass

Sec. 2. M. W. F. 11:00. Room 361 Main. Harris

Sec. 3. T. Th. S. 8:00. Room 177 Main. Hardy

Sec. 4. T. Th. S. 9:00. Winter and Spring quarters. Room Ellsworth

10. CURRENT ECONOMIC AND POLITICAL PROBLEMS. One great handicap of most college students is that they have never learned to read the newspapers and periodicals intelligently and critically. Many do not read them at all. The consequent 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.

(Not given in 1925-26.) Wanlass
20. Principles of Rural Economics. The aim of this course is to give a background for defining and interpreting problems of country life in Utah. Prerequisite or to be taken parallel Economics 1. Fall quarter. Three credits.
M. W. F. 9:00. Room 280 Main.

Branson

30, 31. Economic Development of the United States. This course indicates the dominance of economic forces in history. A critical study will be made of the evolution and progress of American agriculture, industry, commerce, transportation, banking, labor organizations, etc. from the colonial to the present time. Graphs and charts will be made and special reports will be given. Fall and Winter quarters. Three credits each quarter.
T. Th. S. 8:00. Room 361 Main.

Harris

Senior College Courses

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 or 120, 121. Spring quarter. Three credits.
M. W. F. 8:00. Room 361 Main.

Harris

M. W. F. 8:00. 361 Main.

Harris

125. Labor Problems. A study of the labor situation from the social point of view. Special attention given to labor problems and methods of securing industrial peace. Prerequisites, Economics 1, 2, 3 or 120, 121. Spring quarter. Three credits.
M. W. F. 8:00. Room 177 Main.

Hardy
150. **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 or 120, 121. Spring quarter. Three credits.

(Not given in 1925-26.)

Wanlass

160. **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 or 120, 121. Spring quarter. Three credits.

(Not given in 1925-26.)

Harris

167. **Banking.** After a brief survey of the development of banking in foreign countries and in the United States, our present banking organization and practices will be critically studied. Special attention given to the Federal Reserve System. Prerequisites, Economics 1, 2, 3 or 120, 121. Spring quarter. Three credits.

M. W. F. 10:00. Room 280 Main.

Harris

168. **Banking Practice.** A technical course treating of the internal problems of bank organization. The emphasis is placed, not upon the routine of bank operation, but upon the larger problems of management, not upon clerical work, but upon work of official responsibility. Banking technic will be studied from the standpoint of functions, rather than from that of bank departments. Prerequisite, Economics 167. Spring quarter. Three credits.

(Not given in 1925-26.)

Harris

180, 181, 182. **Current Economic Problems.** (Economic 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.

Alternating Wednesday evenings, 7:15.

The Department

195. History of Economic Thought. A critical study of the origin and development of the economic theories of the leading thinkers in the leading nations of the world. Spring quarter. Three credits.
(Not given in 1925-26.)

Wanlass

GRADUATE COURSE

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.

Harris

For courses in other departments closely associated with these see:

Agricultural Economics 105. (Rural Credits.)
Agricultural Economics 101. (Rural Economics.)
Agricultural Economics 206. (Land Economy.)

See also Departments of Marketing and Business Administration.
EDUCATION AND PSYCHOLOGY

HENRY PETERSON, Professor.
J. E. GREAVES, Professor.
CALVIN FLETCHER, Professor.
ALICE KEWLEY, Professor.
C. R. JOHNSON, Professor.
KATHERINE COOPER, Associate Professor.
J. R. JENSON, Associate Professor.
HENRY OBERHANSLEY, Assistant Professor.
*C. E. McCLELLAN, Instructor.

JUNIOR COLLEGE COURSES

1. INTRODUCTORY PSYCHOLOGY. A first course in the study of human behavior. Designed to help students the better to study and to direct their educational careers in college and to understand in a general way the psychology of profession, trade and business. This course should be taken in the Freshman year and should be followed by Education 2 the next quarter. Course repeats. Fall, Winter or Spring quarter. Three credits.

   Sec. 1. Fall. M. W. F. 8:00. Room 279.
   Sec. 2. Fall. T. Th. S. 8:00. Room 177.
   Sec. 3. Winter. M. W. F. 8:00.
   Sec. 4. Spring M. W. F. 8:00.

   Peterson and Oberhansley

2. EDUCATIONAL PSYCHOLOGY. Required for certification. Designed for those preparing to teach in the elementary schools. This course should follow immediately Education 1. Winter or Spring quarter. Three credits.

   Sec. 1. Winter M. W. F. 8:00.
   Sec. 2. Winter T. Th. S. 8:00.
   Sec. 3. Spring M. W. F. 8:00.

   Peterson and Oberhansley

*On leave of absence.
4. **Principles of Education.** Required for certification. 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 quarter. Three credits.

T. Th. S. 10:00.

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5. **Utah State Course of Study.** Required for certification. 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. Winter quarter. Three credits.

T. Th. S. 10:00.

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14. **Health Education.** Required for certification. The health problems confronting teachers in elementary schools. This course should be taken in the Freshman year and be followed by Education 15 the next quarter. Fall or Winter quarter. Three credits.

Sec. 1. Fall. T. Th. S. 10:00. Widtsoe Hall, Third floor.
Sec. 2. Winter. M. W. F. 10:00. Widtsoe Hall, Third floor.

Greaves

15. **Physical Development.** Required for certification. How to keep physically fit. The close correlation between mental fitness and physical fitness. A lecture course. Winter or Spring quarter. Three credits. T. Th. S. 8:00.

Jenson

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. 11:00.
Committee in charge: Professors Richards, Fletcher, Henry Peterson, William Peterson, Jensen, 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. One or two credits.

Time to be arranged.
Oberhansley and Scout Commission of the Logan Council of Boy Scouts.

29, 30. **Public School Music for Grade Teachers.** To prepare the average grade teacher to teach music in her own room. The fundamentals of music and how to present them to children with special emphasis on singing and song material for children. Learning to read vocal music from the printed page. Care and development of child voice. Fall and Winter quarters. Three credits each quarter. M. W. F. 9:00.

Johnson


Sec. 1. M. W. F. 10:00. Room 177 Main.

32. **Historical Development of the Principles of Education.** The rise and growth of Christianity with its schools and systems of education in Europe down to modern times. Winter quarter. Three credits.

Sec. 1. M. W. F. 10:00. Room 177 Main.

33. **The Historical Development of American School Systems.** Required for certification. Their administration and
supervision. A study of the origin and growth of American educational ideals, practices and achievements, with special emphasis on the teaching, administrative and supervisory problems. Spring quarter. Three credits.
Sec. 1. M. W. F. 10:00. Room 177 Main.
Sec. 2. T. Th. S. 10:00. Room 358 Main

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.
T. Th. S. 8:00. Room 302 Main.

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. Winter or Spring quarter. Six to twelve credits. Training may be done in student's home town. Time of training to be arranged. All trainees meet Friday 5:00 room 279.

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.

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.
53. **Handiwork for Graded Schools.** Stick printing, stencilling, weaving, basketry, enamelling, jesso, pottery, and other crafts suited to graded schools will be taken up. Spring quarter. Three credits.

T. Th. S. 11:00.

### SENIOR COLLEGE COURSES

101. **Principles of Psychology.** Designed for those who are preparing to teach, to become county agents or home demonstrators. This course deals with the processes of mental activity and mental growth and is prerequisite to Psychology of Adolescence and Educational Psychology. To be taken in the Junior year. Fall quarter. Three credits.

- Sec. 1. M. W. F. 11:00. Room 279 Main.
- Sec. 2. T. Th. S. 11:00. Room 279 Main.

Petersen

102. **Advanced Educational Psychology.** Required for certification. For prospective teachers and leaders of social and other activities. The principles studied in preceding courses are here applied to the processes of teaching and leadership. Prerequisite, Education 101, or its equivalent. Spring quarter. Three credits.

M. W. F. 11:00. Room 279 Main.

Petersen

103. **Advanced Educational Psychology.** Required for certification. Applied in teaching adolescents. A course for those preparing to become high school teachers or directors of adolescents in summer work. Prerequisites, Education 101 or equivalent. To be taken in the Junior year. Winter quarter. Three credits.

M. W. F. 11:00. Room 279.

Petersen

111. **Science of Education.** Required for certification. 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. This course should be taken in the senior year. Prerequisite, Education 101, 102, 103. Fall quarter. Four credits. Extra hour to be arranged.

T. Th. S. 10:00. Room 279 Main. Peterson

121. The Organization and Administration of Secondary Education. Required for certification. (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 quarter. Four credits. Extra hour to be arranged.

Sec. 1. T. Th. S. 8:00. Room 177 Main. Oberhansley

Sec. 2. T. Th. S. 8:00. Kewley

112. Rural Education. A survey and study of proposed objectives for rural schools; tendencies in curriculum revision and the reorganization of rural schools; the preparation of rural teachers; and the functions of the schools as agents in the solution of rural life problems. Three credits. Winter quarter. T. Th. S. 9:00. Room 177 Main. Oberhansley

115. Practice Teaching in High Schools. Required for certification. 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. Prerequisite, Education 101, 102, 103 and 111. Four to eight credits. Winter and Spring quarters. Time of training to be arranged. All trainees meet Friday 5:00, Room 279. Peterson
120. **Methods of Teaching Home Economics.** Required for certification. A course designed for teachers of home economics. Determination of objectives in home economics teaching. General discussion of methods in teaching home economics. Fall quarter. Three credits.
M. W. F. 9:00. Room 26 H. E.

Kewley

122. **Practice Teaching in Home Economics.** Required for certification. This course provides an opportunity for a first hand study of school plants, buildings, equipment, school procedure and good teaching. 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

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 classroom, laboratory and field; visual and extension methods of teaching. Prerequisites, Education 111 or its equivalent. Fall quarter. Three credits.
M. W. F. 8:00. Room 177 Main.

Oberhansley

127. **Practice Teaching in Agriculture.** Required for certification. 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 year's of Smith-Hughes course. Fall, Winter and Spring quarters. Eight credits.
Time to be arranged.

Oberhansley
128. **THE TEACHING OF NATURAL SCIENCE.** This course is designed for those preparing to teach nature in the elementary schools or natural science in high schools. Lectures, class discussions, laboratory work and many excursions to study nature at first hand. Prerequisites, Botany 1 or 21, 22, and 23, Zoology 1 or 3, one additional laboratory course in biology, educational psychology and principles of education. Open to sophomores and Senior College students. Two lectures and one laboratory period each week. Spring quarter. Three credits.

Lec. T. S. 10:00. Lab. T. 2:00 to 5:00.

130. **SUPERVISION OF HOME PROJECTS.** This course includes training in extension methods, including demonstrations, keeping records and reports, outings, personal visits and general supervision of a group of boys in home projects. One to five credits. Summer quarter.

Oberhansley

140, 141, 142. **METHODS OF TEACHING PHYSICAL EDUCATION.** This course deals with the principles involved in the teaching of gymnastics, dancing, and games, and gives an opportunity for practice teaching. Prerequisites, Physical Education 71, 72, 73, 141, 142, 143. Fall, Winter and Spring quarters. Two credits each quarter, except that one credit will be offered Spring quarter.

Lec. T. 12:00. Lab. Th. 12:00. Room 12 Home Ec.

Carlisle

Note: The credit for this course may also count toward a major in Physical Education.

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, Main.

Reynolds

196. **THE TEACHING OF LITERATURE IN THE HIGH SCHOOL.** Literature is considered as a normal function of every student,
and is studied in relation to individual and social progress. The choice of literature is based upon the normal literary life of the students. Fall quarter. Three credits.
M. W. F. 9:00. Room 357 Main.

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SENIOR COLLEGE AND GRADUATE COURSES

261, 262, 263. SEMINAR IN EDUCATION. Required for certification. The Fall quarter will be devoted mostly to problems in the Science of Education; the Winter quarter to problems in school organization and administration. 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 quarter. One and one-half credits each quarter.
Th. 3:20 to 5:00. Room 177 Main.

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 leaders. The following topics will be covered: A brief history of extension work; present organization and status of extension work; choosing the local program of work; developing projects; training local leaders; follow-up methods; methods in conducting meetings, demonstrations, exhibits, field trips, and contests; office organization, equipment, etc.; report writing, letter writing and preparation of illustrative and other publicity material; the outlook for extension workers. Field trips will be made into those parts of the state where the most successful extension work is being done. Primarily for graduate students. Seniors may be admitted. Spring quarter. Three credits.
M. W. F. 8:00. Room 177 Main.
Hours and credit to be arranged.

Oberhansley and Extension Staff
114. **Rural Life Problems.** The study of the conditions of rural life; physical influences; psychology of farm life; structure and rural society; rural social institutions; rural leadership; surveys; organizations and social agencies. The work of the rural high schools in the solution of rural life problems will be emphasized. Three credits. Spring quarter.

M. W. F. 8:00.
(Not given in 1925-26.)

**Oberhansley**

**ENGLISH AND PUBLIC SPEAKING**

N. A. Pederson, Professor.
F. R. Arnold, Professor of Modern Languages and Latin.
Charlotte Kyle, Assistant Professor.
*Wallace J. Vickers, Assistant Professor.
Edward Bock, Assistant Professor.
Donna Jones, Instructor.
Walter Welte, Instructor.

**JUNIOR COLLEGE COURSES**

1, 2, 3. **Vocal Interpretation.** The vocal 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. Fall, Winter and Spring quarters. Three credits each quarter.

T. Th. S. 11:00. Room 359 Main.

5. **College Grammar.** The course repeats each quarter. Three credits.

T. Th. S. 9:00. Room 360 Main.

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. Room 359 Main.
Sec. 2. M. W. F. 11:00. Room 359 Main.

*On leave of absence.
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. 11:00. Room 351 Main.

**Arnold**

10. **Freshman Composition.** The first two quarters include drill in the fundamentals of good writing and in rhetorical details, together with practice in the forms of written discourse. The Spring quarter will be given largely to classics. Three credits each quarter.

Sec. 1. M. W. F. 8:00. Room 360 Main.  

Sec. 2. M. W. F. 9:00. Room 357 Main.  

Sec. 3. M. W. F. 9:00. Room 357 Main.  

Sec. 4. T. Th. S. 10:00. Room 359 Main.  

Sec. 5. M. W. F. 11:00.  

Sec. 6. Winter and Spring quarters only. T. Th. S. 9:00.  

**Kyle**

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. Fall, Winter, and Spring quarters. Three credits each quarter.

M. W. F. 8:00. Room 358 Main.  

**Pedersen**

*English 10 is a Prerequisite for all Courses in English that Follow.*

53, 54, 55. **Nineteenth Century English Novel.** A study of the technique of the novels, “Pride and Prejudice,” “The Return of the Native,” “Great Expectations,” and others will be analyzed. Fall, Winter, and Spring quarters. Three credits each quarter.

M. W. F. 11:00. Room 360 Main.  

**Kyle**
70. The Short Story. A study of the technique of the short story. Stories by Maupassant, Poe, Hawthorne, Bret Harte, Kipling, O. Henry, and others will be analyzed. Attention will be given to the best short stories appearing in current magazines. Fall quarter. Three credits.
T. Th. S. 10:00. Room 360 Main.

80, 81, 82. American Literature. The literature of America from Colonial times to the present. Fall, Winter, and Spring quarters. Three credits each quarter.
T. Th. S. 11:00. Room 357 Main.

90, 91, 92. Selected Masterpieces. Fall, Winter and Spring quarters. Two credits each quarter.
T. S. 9:00

T. Th. S. 10:00

SENIOR COLLEGE COURSES

101, 102, 103. Public Speaking. A study of the principles of effective speaking in the preparation and delivery of speeches adapted to various audiences. Prerequisites, Public Speaking 6, 7, 8. Fall, Winter, and Spring quarters. Two credits each quarter.
T. S. 10:00. Room 359 Main.

104. Advanced Interpretation. Analytical study of oral literary forms, emphasizing the differentiation of such forms. Prerequisites, Public Speaking 1, 2, 3. Fall quarter. Three credits.
T. Th. S. 8:00. Room 359 Main.
105. **Interpretation of Shakespeare.** A study of the dramatic reading of Shakespeare. Great scenes will be chosen from a tragedy and a comedy for oral interpretation. Prerequisites, Public Speaking 1, 2, 3. Winter and Spring quarters. Three credits each quarter.

M. W. F. 8:00. Room 359 Main.

108, 109, 110. **Advanced Writing.** A study of models as found in current writing. Practice in various forms of discourse. Considerable freedom of choice during Spring quarter as to type of writing. Fall, Winter, and Spring quarters. Two credits each quarter.

T. S. 10:00.


M. W. F. 9:00

120, 121. ** Debating Seminar.** The seminar is for those who desire to make places on the inter-collegiate debating teams. Credit is assigned for work in the seminar in connection with work on inter-collegiate teams. Fall and Winter quarters. Time to be arranged to meet the needs of the group. Credit to be determined by the Debating Council.

125, 126, 127. **Journalism.** News collecting, study of country and city newspapers, preparation of agricultural feature stories for magazines and newspapers. Students of ability taking this course 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.

T. Th. 1:00. Room 351 Main.

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*Jones*

*Pedersen*

*Kyle*

*Arnold*
130, 131. The Bible as English Literature. (Not given in 1925-26)

135, 136, 137. Early Romantic Poets. Fall and Winter quarters. Three credits each quarter. T. Th. S. 10:00

Bock


M. W. F. 9:00. Room 358 Main.

Pedersen

145. Contemporary Poetry—English and American. Prerequisites, English 80, 81, 82, or English 50, 51, 52. Fall quarter only. Three credits.

T. Th. S. 9:00. Room 360 Main.

Kyle

150, 151, 152. The English Poets of the Nineteenth Century. (Not given in 1925-26.)

Kyle

153, 154, 155. Chaucer. Fall, Winter, and Spring quarters. (Not given in 1925-26.)

Pedersen

156. Medieval Literature, with special reference to Middle English. European and English literature of the period will be read in translation. Fall quarter. Three credits.

M. W. F. 11:00.

Bock


M. W. F. 11:00.

Bock
   M. W. F. 10:00.

Welti

   Fall, Winter and Spring quarters.
   T. S. 9:00.

Pedersen

170, 171, 172. The English Drama.
   (Not given in 1925-26.)

Pedersen

GRADUATE COURSES

205, 206. Anglo-Saxon. Open also to qualified seniors.
   Fall and Winter quarters. Three credits each quarter.
   M. W. F. 10:00. Room 358 Main.

Pedersen

207, 208. Middle English.
   (Not given in 1925-26.)

Pedersen

ENTOMOLOGY

I. M. Hawley, Professor.
H. J. Pack, Associate Professor.

See Department of Zoology for related work.

JUNIOR COLLEGE COURSES

1. Agricultural Entomology. A brief study of injurious insects with special emphasis on the forms which occur in the intermountain region. Winter quarter. Three credits. T. Th. S. 8:00.

Hawley
3. **General Entomology.** A study of the structure, classification and life histories of insects. Special attention will be given to interesting instincts and habits. Methods of collecting, preserving and rearing will be briefly explained. A course for teachers and others who desire a general knowledge of our common insects. This course is required for all students majoring in Zoology. Field trips will be taken when weather permits. Spring quarter. Four credits. T. Th. S. 8:00. Lab. W. 2:00 to 5:00.

**Hawley**

4. **Economic Entomology.** Fruit Pests. This course considers in detail the life histories and methods of control of the insects that injure fruit in Utah. These pests will be studied in the field and laboratory to supplement the class work. Fall quarter. Four credits. T. Th. S. 9:00. Lab. W. 2:00 to 5:00.

(Not given in 1925-26.)

**Hawley**

5. **Economic Entomology.** Truck and field crop pests. This course considers in detail the life histories and control methods of the insects that are injurious to general field and truck crops in Utah. Field trips will be taken and the pests will also be studied in the laboratory. Fall quarter. Four credits.

T. Th. S. 9:00. Lab. W. 2:00 to 5:00.

**Hawley**

6, 7. **Agriculture.** A study of honey bees from the practical standpoint. The winter quarter will be spent in fundamental text book work while the work of the spring quarter will be carried on mostly in the college apiary, learning the habits and methods of handling these insects. Winter and Spring quarters. Three credits.

Hours to be arranged. (Not given in 1925-26.)

**Senior College Courses**

102, 103, 104. **Systematic Entomology.** The structure of insects is studied in detail in order that the students will be able to use the tables employed in classification. Each student must collect, mount, and properly identify a representative collec-
tion 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.

Hours to be arranged.

Hawley and Pack

106. **ENTOMOLOGICAL LITERATURE.** Each student investigates and reports on the literature of some insect or insects within his state. Historical development of entomology, current entomological literature and bibliographies are considered. Prerequisites. Entomology 3, 4, 5, or 102. Graduate credit may be allowed for this course. Fall, Winter or Spring quarter. Three credits. Hours to be arranged.

107. **ENTOMOLOGICAL TECHNIO.** Detailed studies of methods of collecting, preserving, and rearing insects. A course in entomology involving the making of exhibit collections, the methods of breeding unknown forms, the principles in insect photography, etc. A course to fit students for specialized work in entomology. Graduate credit may be allowed for this course. Prerequisites, Entomology 3 or 102. Hours and credits to be arranged.

Hawley

108. **INSECTS IN RELATION TO MAN.** Insects that annoy man at home and in the field will be considered both as pests and disease carriers. Beneficial insects will also be considered. A course of important information. Lectures and assigned readings. Winter term. Two credits.

T. S. 10:00.

Hawley

109. **FOREST AND SHADE TREE INSECTS.** A study of the life histories and control measures to use in the control of pests of shade and forest trees. Field trips will be taken to see insects at work. Fall quarter. Three credits.

Time to be arranged.

Hawley
GRADUATE COURSE

201. RESEARCH. Students may select or will be assigned certain problems dealing with the different phases of entomology. The amount of credit will depend on the nature of the problems and the time spent. Thesis. Open to undergraduates only by special permission. Prerequisite, Entomology 3 or 102. Hours and credits to be arranged.

Hawley and Pack

Foods and Dietetics (See Page 245)

Farm and Auto Mechanics (See Page 229)
   Auto Mechanics (See Page 230)
   Farm Mechanics (See Page 231)
   Ignition, Starting and Lighting (See Page 232)
   Oxy-Acetylene, Electric Arc and Resistance Welding (See Page 235)
   Tractor Repair and Operation (See Page 236)
   Vulcanizing and Tire Repair (See Page 237)

GEOLOGY

WILLIAM PETERSON, Professor.
REED BAILEY, Instructor.

JUNIOR COLLEGE COURSE

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 Th. 11:00. Room 283.

Peterson and Bailey

SENIOR COLLEGE COURSES

102, 103, 104. GENERAL GEOLOGY. Dynamic, structural and historical geology. The changes the earth’s surface is now undergoing and the forces which produce them as a means of interpreting the past. Laboratory study of the common rocks and
rock forming minerals, with special stress on the soil product resulting from rock disintegration. A careful study of the geological development of the North American continent. Field trips with written reports. Students taking Geology 102, 103, 104, should also take Scientific Vocabulary 1. Prerequisites, Chemistry Zoology 3 and 4. Fall, Winter and Spring quarters. Three credits each quarter.

T. Th. S. 9:00. Room 283 Main.

Peterson

105, 106. GENERAL GEOLOGY. The same course material will be presented in Geology 105, 106 as in Geology 102, 103, 104, but it will be given in two quarters, five days a week, instead of in three quarters, three days a week. This course will be given if ten try 1 and Zoology 3 and 4. Fall, Winter and Spring quarters. Three credits each quarter.

Daily except Th. 10:00. Room 283 Main.

Bailey

107, 108, 109. 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. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 9:00. Room 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 and Chemistry 1. Lectures, readings and laboratory work. Fall, Winter and Spring quarters. Credit to be arranged. Credit should total five hours.

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 Th. 11:00. Room 283 Main.

112. Advanced Physiography. Prerequisites, Geology 102, 103, 104 or 105, 106. Fall quarter. Three credits.
T. Th. S. 8:00. Room 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. Prerequisite, Geology 102, 103, 104 or 105, 106. Fall quarter. Three hours. Two or three credits. Laboratory to be arranged.

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. Either Fall or Winter quarter. Two or three credits. Hours to be arranged.

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. Fall quarter. Three credits.
T. Th. S. 11:00. Room 283 Main.
HISTORY

JOEL E. RICKS, Professor.

JUNIOR COLLEGE COURSES

1. EUROPEAN HISTORY. Survey from the Fall of Rome to 1500. Fall quarter. Three credits.
   Sec. 1. Th. S. 9:00. Room 356 Main.

   Sec. 2. M. W. F. 11:00. Room 356 Main.

   Sec. 1. T. Th. S. 9:00. Room 356 Main
   Sec. 2. M. W. F. 11:00. Room 356 Main.

   Sec. 1. T. Th. S. 9:00. Room 356 Main.
   Sec. 2. M. W. F. 11:00. Room 356 Main.

13. UNITED STATES HISTORY. Survey of United States History from earliest times to 1783. Three credits. Fall quarter.
    M. W. F. 8:00. Room 356 Main.

14. UNITED STATES HISTORY. From the Revolution through the Civil War. Winter quarter. Three credits.
    M. W. F. 8:00. Room 356 Main.
15. **United States History.** From the close of the Civil war to the present time. Spring quarter. Three credits.
M. W. F. 8:00. Room 356 Main.

**Ricks**

**SENIOR COLLEGE COURSES**

121. **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 century. Fall quarter. Three credits.
M. W. F. 10:00. Room 356 Main.

**Ricks**

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. Winter quarter. Three credits.
M. W. F. 10:00. Room 356 Main.

**Ricks**

128. **European History, 1914-1925.** A study of the Great War and the political and social movements since the war will be made. Winter quarter. Three credits.
M. W. F. 10:00. Room 356 Main.

**Ricks**

131. **United States History, The West, 1763-1830.** The development of the West from the Alleghanies to the Mississippi. Fall quarter. Three credits.
T. Th. S. 10:00. Room 356 Main.

**Ricks**

132, 133. **United States History.** Trans-Mississippi West. Study of the exploration, settlement and development of the West with special emphasis upon Utah, 1803-1870. Winter and Spring quarters. Three credits each quarter.
T. Th. S. 10:00. Room 356 Main.

**Ricks**
Note: Students who major in Horticulture are required to take courses 2, 3, or 5, 12, 103, 104, 108, 109 and Agronomy 109. The remainder of the 24 credit hours must be chosen from the other courses offered in Horticulture. The suggested course of studies outlined on page ... should be adhered to as closely as possible. Agricultural Economics 102 and Irrigation 1 are especially recommended. Botany 21, 22, 23 should precede or accompany all college courses in horticulture.

JUNIOR COLLEGE COURSES


2. Plant Propagation. Study of principles and practices of propagating plants by spores, seeds, grafting, cutting, layering and separation. Required for students majoring in horticulture. Prerequisites, Botany 21, 22, 23. Winter quarter. Three credits. Lec. T. Th. 9:00. Lab. T. 2:00 to 5:00. Room 179 Main. Abell

3. Olericulture. A study of the vegetable production, both home and commercial. Laboratory work in variety study and field problems. Spring quarter. Three credits. Lec. W. F. 9:00. Lab. T. 2:00 to 5:00. Room 179 Main. Abell

4. Landscape Gardening and Floriculture. An introduction to the theory and practice of beautifying the home sur-
roundings in the city and on the farm. Laboratory instruction in growing flowers, designing of home grounds, plant materials. Mechanical Drawing 6 should precede this course. Fall quarter. Three or four credits.
W. F. 9:00. Lab. M. or W. 2:00 to 5:00. Room 179 Main. Abell and Hansen

5. **COMMERCIAL GARDENING.** Vegetable production for the market and canning factory. Winter quarter. Three credits.
M. W. F. 9:00. Abell

M. W. F. 11:00. Abell

**SENIOR COLLEGE COURSES**

101. **GENERAL HORTICULTURE.** Study of various phases of horticulture from the viewpoint of correlation with general and specialized farming. Intended primarily for Senior College Agricultural Students who are specializing in Horticulture. Prerequisite, Botany 1 or 21. Spring quarter. Five credits.
Lec. M. W. F. 11:00. Lab. M. W. 2:00 to 5:00. Room 179 Main. Abell

102. **SYSTEMATIC POMOLOGY.** Botany and origin of fruit species, variety study and identification, scoring and judging of fruit exhibits. This course required for a major in horticulture. Prerequisites, Botany 21, 22, 23. Fall quarter. Three credits.
(Not given in 1925-26.)

103. **FRUIT PRODUCTION.** Fundamentals of producing of orchard and small fruits. This is an advanced course required of all students majoring in horticulture. Prerequisite, Botany 21, 22, 23. Chemistry 1, 2, and 21, 22, Irrigation 1, and Horticulture 2. Winter quarter. Four credits.
(Not given in 1925-26.)
104. Orchard Practice. Field trips to study orchard problems, and exercises in pruning and pest control. Prerequisite, Horticulture 103 and Entomology 104. Required for a major in Horticulture. Spring quarter. Three credits. (Not given in 1925-26.)

105. Commercial Horticulture. Fruit and vegetable harvesting, grading, packing, handling, and storing. Fall quarter. Three credits.
W. F. 10:00. Room 179 Main. Abell

107. History of Cultivated Plants. Historical consideration of the gradual adaptation of plants to the uses of man, and the factors in their improvement. Prerequisites, Botany 21, 22, 23, Agronomy 109. Winter quarter. Two credits. (Not given in 1925-26.)

108, 109. Seminar. Review of current literature. Required for seniors and graduate students in horticulture; open also to juniors. Winter and Spring quarters. One credit each quarter.
Time to be arranged. Abell

GRADUATE COURSES

200. Horticultural by-Products. Utilization of inferior and waste products. Study of modern commercial methods of canning, preserving, drying. Laboratory study of common utilization processes and products. Prerequisite, Horticulture 1 or 103 and 3 or 5, Chemistry 21, 22, Bacteriology 1. Fall quarter. Three credits. Two lectures and one laboratory. Room 179 Main.
Time to be arranged. Abell

201. Methods of Research. Organization and methods used in the investigation of horticultural problems. Analysis and criticism of published reports. Practice in outlining methods of attack. Open to graduate students with adequate preparation in
basic sciences and horticulture. Winter quarter. Three credits. Two lectures and one laboratory. Room 179 Main.
Time to be arranged.

202, 203, 204, 205. Research. Graduate students are required to do research work in some phase of horticulture, a thesis to be submitted on the work done in this course. Fall, Winter, Spring and Summer quarters.
Time to be arranged.

Household Administration (See Page 245)
Irrigation and Drainage (See Page 227)

LIBRARY ECONOMY

Hattie Smith, Acting Librarian.

T. 1:00. Library, Main.

MARKETING

Including Advertising and Selling

D. E. Robinson, Professor.
W. L. Wanlass, Professor.
P. E. Peterson, Professor.
M. H. Harris, Professor.
John A. Ellsworth, Associate Professor.
W. E. Thain, Assistant Professor.

SENIOR COLLEGE COURSES

of psychology may be applied to business. Prerequisites or parallel, Economics, 1, 2, 3, or 120, 121. Fall quarter. Three credits.
M. W. F. 11:00. Room 352 Main.

102. 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. Winter quarter. Three credits.
M. W. F. 11:00. Room 352 Main.

103. SALESMANSHIP. Designed to meet the needs of students who want a general knowledge of the principles underlying selling. Demonstration sales. Prerequisites or parallel, Economics 1, 2, 3 or 120, 121. Spring quarter. Three credits.
M. W. F. 11:00. Room 352 Main.

111. AGRICULTURAL COMMERCE. This course will cover the basic facts necessary to clear understanding of the problems in marketing. Supply and demand of farm products, prices and production, the economic relations of the farmer, the middleman and the consumer receive special consideration. Prerequisites, Economics 1, 2, 3, or 120, 121. Winter quarter.
M. W. F. 11:00. Room 132 Main.

112. MARKETING OF FARM PRODUCTS. Problems of marketing specific farm products such as livestock, grains, 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, 2, 3, or 120, 121. Spring quarter. Three credits.
M. W. F. 11:00. Room 132 Main.
113. **Co-operative Marketing.** This course is to acquaint students with the co-operative marketing associations of the United States with particular reference to the principles involved and the working out of these principles. Winter quarter. Three credits.

T. Th. S. 10:00. Room 132 Main.

*Ellsworth*

121. **Geography of Commerce.** This course deals with geography as related to commerce. The environmental factors, natural resources, climate, population, etc., will be studied from the commercial viewpoint. An analysis of their resources and industries and their geographical distribution will be made. Typical industries will be followed from the production of their raw materials to the marketing of their finished products. Fall quarter. Three credits.

M. W. F. 8:00. Room 361 Main.

*Harris*

131, 132. **Retail Store Problems.** The aim of this course is to present, by means of carefully collected and co-ordinated cases, the management problems of a retail store which arise in shaping its merchandising policies. The problems studied include accounting, statistics, organization, merchandise, selling, stock, buying, personnel, finance, price policies, and general administrative policy. (This course alternates with Modern Scientific Management. See Business Administration 105-106).

T. Th. S. 11:00.

*Peterson*

141. **Writing Advertisements.** An advanced course covering the preparation of advertising copy, the layout of advertisements, typography, media, rates, etc. Alternates with Marketing 161. Prerequisites, Marketing 101, 102, English 10. Fall quarter. Two credits.

(Not given in 1925-26.)

*Robinson*

142. **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. Alternates with Marketing 162. Prerequisite, Marketing 102. Winter quarter. Two credits.
(Not given in 1925-26.)

151. **SALES MANAGEMENT.** An advanced course covering the duties of sales manager, sales policies, routing salesman. Alternates with Marketing 163. Prerequisite, Marketing 103. Spring quarter. Two credits.
(Not given 1925-26.)

161. **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.
T. Th. 9:00. Room 352 Main.

162. **DIRECT MAIL ADVERTISING.** An advanced course covering the preparation of direct mail advertising material, including booklets, inclosures, house organs, etc., but excluding sales letters, which are covered in Marketing 161. Prerequisite, English 10. Winter quarter. Two credits.
T. Th. 9:00. Room 352 Main.

163. **DIRECT MAIL ADVERTISING.** A continuation of Marketing 162. This course includes a study of business reports and correspondence supervision. Prerequisite, English 10. Spring quarter. Two credits.
T. Th. 9:00. Room 352 Main.

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 completed. Graduate credit will be granted where the student is qualified to pursue graduate work.

Hours to be arranged.

Robinson

GRADUATE COURSES

Never before in the history of the United States has there been such a widespread and intense interest in the subject of marketing. This is particularly true with reference to the marketing of farm products and livestock. The recently established Bureau of Agricultural Economics is now the largest subdivision of the Federal Department of Agriculture. Most of the States have established marketing agencies of various kinds. If these governmental agencies are to function properly and if a better marketing system is to be evolved, there will be an ever increasing need for men and women who are thoroughly trained in the economics of marketing. It is with the hope that assistance may be given in providing facilities for this kind of training that the following graduate courses are offered.

201. Economics of Marketing and Marketing Problems. In this course the fundamental principles underlying the present distributive system will be studied carefully. The case method will be used. Special attention will be given to specific marketing problems, particularly those of the intermountain section. Winter quarter. Three credits.

T. 2:00 to 4:00. Room 280 Main.

Wanlass

202. Seminar in Marketing. Early in the year each student will be assigned a definite problem or field for special study. During the Spring quarter reports on these special assignments will be made and criticised. This work may be used to satisfy the thesis requirement for the master's degree. Spring quarter. Three credits.

T. 2:00 to 4:00. Room 280 Main.

Wanlass
MATHEMATICS

A. H. SAXER, Professor.
N. E. EDLEFSEN, Assistant Professor.
GEORGE DEWEY CLYDE, Assistant Professor.
ROY EGBERT, Instructor.

JUNIOR COLLEGE COURSES

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 discussion of the linear equation. Graphical and algebraical solution of triangles. Trigonometry and use of trigonometric tables. Use of logarithms, slide rule, etc. Selected topics from Freshman algebra showing application to the various departments of the College. Prerequisite, one year of high school algebra. Three credits each quarter. Two sections.

M. W. F. 11:00.

SAXER and EGBERT

(This course must be completed by all students who are deficient in entrance mathematics.)

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 45 which follows and should not be taken by those who present 1½ units of algebra. Fall quarter. Five credits.

Daily except Saturday. 10:00.

CLYDE

45. COLLEGE ALGEBRA. Prerequisite one and one-half units of high school Algebra or Mathematics 30. Fall or winter quarter. Five credits.

Sec. 1. Fall quarter. Daily except Saturday 8:00.

EDLEFSEN

Sec. 2. Winter quarter. Daily except Saturday 10:00.

CLYDE
46. TRIGONOMETRY. Prerequisite, Mathematics 45. Winter or Spring quarter. Five credits.
   Sec. 1. Winter quarter. Daily except Saturday 8:00. Edlefsen
   Sec. 2. Spring quarter. Daily except Saturday 10:00. Clyde

47. ELEMENTARY CALCULUS. An introduction to the differential and integral calculus. Prerequisite, Mathematics 46. Fall or Spring quarter. Five credits.
   Sec. 1. Spring quarter. Daily except Saturday 8:00. Edlefsen
   Sec. 2. Fall quarter. Daily except Saturday 10:00. Saxer

50. GENERAL ASTRONOMY. Prerequisites, General Physics and Mathematics 22 or 46. Winter and Spring quarters. Three credits each quarter. M. W. F. 9:00. Saxer

60. MATHEMATICAL THEORY OF INVESTMENT. Prerequisite, Mathematics 22 or 45. Three credits. Winter quarter. M. W. F. 9:00. (Not given 1925-26.) Saxer

61. PROBABILITY AND LIFE INSURANCE. A continuation of Mathematics 60. Prerequisite, Mathematics 60. Spring quarter. Three credits. M. W. F. 9:00. (Not given 1925-26.) Saxer

SENIOR COLLEGE COURSES

112, 113, 114. DIFFERENTIAL AND INTEGRAL CALCULUS. A continuation of course 47. Prerequisite, Mathematics 47. Fall, Winter and Spring quarters. Three credits each quarter. T. Th. S. 9:00. Saxer

Saxer

120. Advanced Analytical Geometry. With applications. Prerequisite, Mathematics 114, or 119. Fall quarter. Three credits.
T. Th. S. 11:00.

Saxer

121. Advanced Calculus. Together with applications to engineering and the sciences. Prerequisite, Mathematics 120. Winter quarter. Three credits.
T. Th. S. 11:00.

Saxer

T. Th. S. 11:00.

Saxer

Mechanic Arts (See Page 237)
Forging and General Blacksmithing (See Page 237)
Machine Work (See Page 239)
Mechanical Drawing (See Page 240)
Woodwork and Housebuilding (See Page 242)

METHODS IN EXPERIMENTATION AND EXTENSION

METHODS OF EXPERIMENTATION

GRADUATE COURSES

201. Methods and Principles of Research as Applied to Agriculture. Work done in this course may be used to apply toward the thesis for the master's degree. Any quarter. Hours and credits to be arranged.

The Experiment Station Staff
211. METHODS AND PRINCIPLES OF RESEARCH AS APPLIED TO HOME ECONOMICS. Experimental work in home problems in bacteriology, infant feeding, household chemistry, in the working out of home equipment or in any problems brought in from the field. Work done in this course may be used to apply toward the thesis for the master’s degree. Any quarter.

Hours and credits to be arranged.

The Experiment Station Staff

METHODS IN EXTENSION

GRADUATE COURSES

201. 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 leaders and state extension leaders. The following topics will be covered: A brief history of extension work; present organization and status of extension work; choosing the local program of work; developing projects; training local leaders; follow-up methods; methods in conducting meetings, demonstrations, exhibits, field trips, and contests, office organization, equipment, etc.; report writing, letter writing, and preparation of illustrative and other publicity material; the outlook for extension workers. Field trips will be made into those parts of the state where the most successful extension work is being done. Winter quarter. Credit to be arranged.

Hours to be arranged.

Extension Service Staff

211. RESEARCH IN EXTENSION METHODS. Graduate course. Any quarter.

Extension Service Staff

Note—Students who are preparing for positions as extension workers should include Education 101, 102, 103, 111, 113, and Extension Methods 201, 211. Extension Methods 201 is designed specially to fit teachers in Agriculture and Home Economics for the more lucrative positions in the extension service and to enable those already in extension work to reach the higher positions in the field.

For closely related course see Education 113.
MILITARY SCIENCE AND TACTICS

ADRIN B. SMITH,
Captain, Coast Artillery Corps,
Detached Officer's List
Professor

ROBERT C. PADLEY,
Second Lieutenant, Coast Artillery Corps,
Detached Officers' List,
Assistant Professor

EUGENE J. CALLAHAN,
Staff Sergeant
Detached Enlisted Men's List
Instructor

WILFORD A. AUDETTE,
Staff Sergeant,
Detached Enlisted Men's List
Instructor

BRICE H. COBB,
Sergeant
Detached Enlisted Men's List
Instructor

Under the Morrill Land Grant of 1862 military training is required at this institution and under the Act of Congress of June 3, 1916, there is at present at the College one unit of the Reserve Officers' Training Corps.

Reserve Officers' Training Corps

Through the National Defense Act of June 3, 1916, and the Army Reorganization Act of June 4, 1920, the President of the United States is authorized to establish and maintain in civil educational institutions units of the Reserve Officers' Training Corps, the object of which is set forth in special regulations of the War Department as follows:
"The primary object of the Reserve Officers' Training Corps is to provide systematic training at civil educational institutions for the purpose of qualifying selected students of such institutions as reserve officers in the Military Forces of the United States. It is intended to obtain this object during the time that students are pursuing their general or professional studies with the least possible interference with their civil careers by employing methods designed to fit men physically, mentally and morally for pursuits of peace as well as pursuits of war. It is believed that such military training will aid greatly in the development of better citizens. It should be the aim of educational institutions to maintain one or more units of the Reserve Officers' Training Corps in order that in time of national emergency there may be instantly available a large number of educated men physically efficient and trained in the fundamentals of military science and tactics and fitted to lead intelligently the units of the Armies upon which the safety of the nation will depend."

It has been the practice of the United States upon the outbreak of war to expand a small professional peace establishment into a great non-professional war army. These expansions always have been effected without any perpetuity of doctrine or organization through which the experience generated in one expansion could be utilized in the next. Or, to put it in another way, at certain crises in our history, with a vast expenditure of treasure and human energy we have established a great organization and then demobilized that organization after the emergency without any provision for making that expenditure a permanent national investment. After being forced to militarize a whole generation, we have taken no precautions to make the sacrifices of that generation a heritage of experience for the next generation that they may be called upon to bear the stress of war. It is primarily the object of the Army Reorganization Act to perpetuate the framework of the organization developed in the World War so that its tremendous cost can be funded as a permanent investment.

Military Training Compulsory

The Board of Trustees has agreed to establish and maintain at this institution a two-year compulsory course of military science and tactics as a minimum for its physically fit male students, which course, when entered upon by any student, shall, as regards such student, be a prerequisite for graduation unless he is relieved of this obligation by regulations to be prescribed by the Secretary of War.

All male students who are citizens of the United States and who are physically fit, except those who are exempted therefrom by the Exemption Board, are required to enroll for military training during their Freshman and Sophomore Years in the Reserve Officers' Training Corps for the BASIC COURSE in Military Science and Tactics which course shall be pursued without delay and without interruption during the period the student attends college.
In addition there is offered, but not required, a two years course in ADVANCED Military Science and Tactics.

Two Courses Offered

The Reserve Officers' Training Corps courses cover four consecutive years of work.

The Basic Course consists of the first two years and students in this course are required to devote not less than 3 hours each week to Military Science and Tactics.

Students in the Basic Course who so elect may take the six weeks course in instruction at a Basic Camp during the summer following the first or second year of the Basic Course. Transportation to and from the camp, food, clothing, medical and dental treatment will be furnished free by the government.

The final two years in the Officers' Training Corps is called the ADVANCED COURSE. Students who have completed the Basic Course or who have been granted credit for same may elect to take the advanced course, and, if selected by the President of the College and the Professor of Military Science and Tactics, they will be eligible to sign the contract with the government to pursue the advanced course for two years for which they will receive the payment of commutation of rations provided by the law. Students of the advanced course are required to devote five hours a week to military science and training for the two years of the course and the completion of this work for them a prerequisite for graduation; they are also required to attend one summer camp of six weeks duration. From the beginning of the advanced course until the conclusion thereof, except for the time spent in camp, such students receive commutation of rations at a rate determined by the Secretary of War; the rate at present is 30 cents per day. At camp rations in kind are furnished and payment of 70 cents per day is made each student.

Students attending an Advanced Course Camp receive the same transportation, food, clothing, medical and dental treatment as is prescribed for members of the Basic Course mentioned above.

Upon satisfactory completion of the Advanced Course, the student, if he so desires, and is so recommended by the President of the College and the professor of Military Science and Tactics, will be given a commission as second lieutenant in the Officers' Reserve Corps in the Coast Artillery Corps.

The student who has accepted a commission in the Officers' Reserve Corps of the United States Army may request to attend a two weeks camp each summer. His transportation to and from camp will be paid by the government and while at the camp he will receive the full pay of his rank in the Army. Reserve Officers are assigned by the Corps Area Commander to a unit of the Organized Reserves near their place of residence, which will be immediately mobilized upon the proclamation of the President of the United States that a state of war exists and that the Organized Reserve Forces of the United States Army are to be mobilized.
Instruction and Organization

The military instruction at this college covers subjects pertaining to the Coast Artillery branch of the United States Army and is under immediate charge of the Professor of Military Science and Tactics, an officer of the United States Regular Army, and has special reference to the duties of the junior officers of the Army.

The rules and orders relating to the organization, control and training of the members of the Reserve Officers’ Training Corps, and the appointment, promotion and reduction of cadet officers will be made by the head of the Military Department after consultation and agreement with the College President.

Cadet Officers and Non-Commissioned Officers

Cadet officers are selected from the 1st and 2nd Year Advanced Classes, and non-commissioned officers from the 2nd year Basic and 1st Year Advanced Classes. Appointments are dependent upon the students’ active and soldierly performance of duties, sense of duty and responsibility and general good conduct and class standing.

Object of Training

The main objects of Military Instruction are:
1. To develop the student physically through drill and other exercises.
2. To develop the student mentally by requiring him accurately to perform duties imposed upon him, which demand tact, thought and initiative.
3. To build character by insisting upon proper submission to discipline which entails self-control, and by insisting on the student’s meeting the responsibilities which are placed upon him.

The finished product should be a man of robust physique, correct carriage, strong character, with a proper regard for constituted authority and a highly developed idea of justice, and who is capable and willing to defend our national institution in the event of an emergency.

Uniform

One olive drab uniform complete is issued without cost to all men in the Reserve Officers’ Training Corps. This uniform is the property of the United States and should be kept in serviceable and clean condition.

Should the student sever his relationship with the Military Department before completing the years work, the uniform must be immediately returned to the institution.

Students pursuing the Advanced Course may be paid commutation of uniforms in lieu of issue uniforms. These uniforms, specially made, are the property of the institution but become the property of the student upon graduation from the Advanced Course.
The R. O. T. C. Military Band

The R. O. T. C. Military band is an important unit of the Military Department and takes part in most of the leading student activities. Besides giving several concerts during the year, the band furnishes music for regimental formations and ceremonies and other occasions as required by the President of the College.

Rehearsals are held regularly throughout the college year. The organization is made up mostly of Sophomores and Freshmen, who receive in addition to credits from the military department, one credit per quarter from the Department of Music. The band is directed by the instructors in the Music Department and is governed by the rules of the Military Department.

The Basic Course

OBLIGATIONS. Members of the Basic Course are required to pursue this course diligently until satisfactorily completed and properly to care for all equipment and apparatus used in their instruction.

Examinations will be given and grades turned in.

DESIGNATION OF COURSES—

<table>
<thead>
<tr>
<th>Fall Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
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<tbody>
<tr>
<td>1st Year Basic</td>
<td>101</td>
<td>102</td>
</tr>
<tr>
<td>2nd Year Basic</td>
<td>201</td>
<td>202</td>
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CREDITS: The Basic Course grants one credit per quarter which is in addition to the 180 academic credit hours required for graduation.

HOURS OF ATTENDANCE. The regular hours of attendance are as follows:

- Tuesdays—12:00 noon to 2:00 p. m.
- Thursdays—1:00 p. m. to 2:00 p. m.

In addition members of the Reserve Officers' Training Corps are required to form for such ceremonies, inspections and parades as is directed by the President of the College.

The Advanced Course

This course is elective.

OBLIGATIONS. (a) The student obligates himself to pursue the course while in college and to devote a minimum of five hours per week during such period to military training prescribed.

(b) To attend the advanced course camp training prescribed by the Secretary of War.

(c) To care properly for all articles of equipment furnished him.

(d) He is expected, although not bound, to accept a commission in the Officers' Reserve Corps if such commission is tendered him, unless prevented by exceptional circumstances.
AGRICULTURAL COLLEGE OF UTAH

BENEFITS. (a) He will be allowed the commutated value of a complete uniform to be applied toward the purchase of a tailor made uniform. The present commutation for two years is 36 dollars.

(b) He will be paid commutation of rations at the rate fixed for the army from the beginning of his 1st Year Advanced Work until the end of his 2nd Year Advanced Work, except while attending the Advanced Course Camp when he will be subsisted in kind. The present value of the ration as fixed by the President of the United States is 30 cents per day.

(c) He will receive mileage at the rate of five cents per mile both to and from camp.

(d) He will receive pay of the seventh grade in the Regular Army in addition to subsistence furnished. This amounts to 70 cents per day at the present time. This applies to time student is attending camp only.

(e) He will be eligible for appointment as second lieutenant in the Officers' Reserve Corps of the United States Army upon graduation from the Advanced Course.

(f) He will be excused from Physical Education while taking the Advanced course.

DESIGNATION OF COURSES:

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<thead>
<tr>
<th>Fall Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
</tr>
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<tbody>
<tr>
<td>1st Year Advanced</td>
<td>301</td>
<td>302</td>
</tr>
<tr>
<td>2nd Year Advanced</td>
<td>401</td>
<td>402</td>
</tr>
</tbody>
</table>

CREDITS. The Advanced Course students receive 3 credits each quarter, or 9 credits per year which count toward the 180 hours required for graduation. In the School of Basic Arts and Sciences, Advanced Military Science and Tactics may be submitted as a minor subject for graduation.

HOURS OF ATTENDANCE:

| 1st Year Advanced | Mondays | 10:00 a.m. to 11:00 a.m. |
|                  | Tuesdays | 10:00 a.m. to 11:00 a.m. |
|                  | Wednesdays | 10:00 a.m. to 11:00 a.m. |
|                  | Thursdays | 10:00 a.m. to 11:00 a.m. |
|                  | Fridays | 9:00 a.m. to 10:00 a.m. |
| 2nd Year Advanced | Mondays | 10:00 a.m. to 11:00 a.m. |
|                  | Tuesdays | 10:00 a.m. to 11:00 a.m. |
|                  | Wednesdays | 10:00 a.m. to 11:00 a.m. |
|                  | Thursdays | 10:00 a.m. to 11:00 a.m. |
|                  | Fridays | 9:00 a.m. to 10:00 a.m. |

Other hours suitable to students can be arranged if necessary.
SUBJECT OUTLINE
FIRST YEAR BASIC COURSE
M. S. and T. Numbers 101, 102, 103.

INFANTRY TRAINING. (Practical and Theory)
(a) Close order drill to include the school of the soldier, squad, platoon, and the battery
(b) Military ceremonies to include the battalion.

PHYSICAL TRAINING. (Practical) In this course the object is to give the student a military bearing, to improve his general physical condition, and to teach him the military methods of physical instruction.

MILITARY COURTESY AND DISCIPLINE. This will consist of lectures on the fundamental principles of military discipline, the relation of courtesy to discipline and efficiency, and the established courtesies of the military service with demonstrations of and practical exercises in correct manner of rendering them.

This subject will also include the duties of the members of the interior guard.

MILITARY POLICY OF THE UNITED STATES. Organization of the Army of the United States and the general relation of the citizen to the military service.

American history relating to events which show the fallacy of depending upon untrained troops in the event of an emergency.

CITIZENSHIP TRAINING. Lecture course setting forth the basic facts and fundamental principles on which this nation was built, The Constitution of the United States, the mechanism of government, what the government does for its citizens and the duty of the citizen toward his government. What is required of the servants of the people from the President down and how these officers are appointed and how they perform that service.

MILITARY HYGIENE. First aid to the injured or sick. Individual, Troop and Camp Sanitation. Personal hygiene.


Note: Marksmanship is one of the subjects given under Gunners' Instruction for 2nd Class Gunners.

GUNNERS' INSTRUCTION. Instruction is given in the following 2nd Class Gunners' subjects:
(a) Tractor Artillery
   (1) Gun service of the piece to include the actual drill at the gun.
   (2) Nomenclature of the various parts of the gun and carriage
   (3) Action, adjustment, and care of the various parts of the gun and carriage.
   (4) Powders, projectiles, primers and fuses.
   (5) Cordage, gins, shears, jacks and mechanical maneuvers
   (6) The Magazine Rifle (given under Marksmanship)
   (7) Use and care of telephone
   (8) Practical driving of motor vehicles (when practicable)

(b) Anti-aircraft Artillery
   (1) Identification of aircraft
   (2) Cordage and mechanical maneuvers
   (3) The magazine rifle (given under marksmanship)
   (4) Nomenclature of the various parts of the gun and carriage.
   (5) Action, adjustment, and care of the various parts of the gun and carriage.
   (6) Service of the piece to include ammunition, fuses and projectiles
   (7) Telephone communication, laying wire, making telephone connections and tests
   (8) General nomenclature of guns and range instruments

SECOND YEAR BASIC COURSE

M. S. and T. Numbers 201, 202, 203.

INFANTRY TRAINING. Same as for First Year Basic Course. During this course selected students will be trained in the duties of cadet officers and non-commissioned officers.

PHYSICAL TRAINING. Same as for First Year Basic. Students pursuing this course will be trained to act as leaders and instructors in physical training.

MILITARY COURTESY AND DISCIPLINE. Same as for First Year Basic.

MILITARY POLICY OF THE UNITED STATES. Same as for First Year Basic.

CITIZENSHIP TRAINING. Same as for First Year Basic.

MILITARY HYGIENE. Same as for First Year Basic.

GUNNERS' INSTRUCTION. Instruction is given in the following First Class Gunners’ Subjects:

(a) Tractor Artillery
   (1) Use, orientation, and adjustment of fire control instruments.
   (2) Duties of all members of the Range Section
   (3) Aiming and laying guns
   (4) Care, service, repair, and operation of trucks and tractors
   (5) Map reading and sketching
   (6) Definitions for Coast Artillery

(b) Anti-aircraft Artillery
   (1) Operation and care of all fire control instruments, duties of all members of range section in determining and transmitting firing data to the guns.
   (2) Adjustments of recoil system, adjustment and use of sights and of range disc. Preservation of material.
   (3) Nomenclature, care, operation and driving of motor transportation.

FIRST YEAR ADVANCED COURSE
M. S. and T. Numbers 301, 302, 303.

INFANTRY TRAINING. Students pursuing the advanced course will cover subjects identical with those prescribed for First and Second Year Basic Students. They will be appointed to the higher grades of non-commissioned officers and will be, if capable, appointed to the junior grades of cadet officers. Their duties in such grades will be that of leaders and instructors for members of the Basic Course.

PHYSICAL TRAINING. Same as is prescribed for Second Year Basic.

GUNNERS' INSTRUCTION. Instruction is given in the following Expert Gunners' Subjects:

Tractor Artillery
Duties of the Gun Commander and Gun Pointer:

(1) Definitions for Coast Artillery.

(2) Guns and Carriages
   (a) Nomenclature, purpose and action of parts
   (b) Inspection and maintenance, to include dismounting, care, cleaning, and adjusting of the several parts of the gun and carriage.
(3) Emplacement
   (a) Preparation of position, to include shelter trenches, ammunition pits, and camouflage.
   (b) Occupation of and withdrawal from position, to include actually placing the gun in and out of position and the observation of camouflage discipline.
   (c) Maneuvering to include various methods of maneuvering gun in and out of position and on the march and the use of maneuvering material, cordage, tackles, jacks, manpower and tractor.
   (d) Protection against aircraft.

(4) Ammunition
   (a) Storage and care of ammunition
   (b) Composition of powder charges
   (c) Primers and fuses
   (d) Fusing and preparation of projectiles for firing
   (e) Painting of projectiles.

(5) Service of the Piece
   Duties of each member of the gun section under all conditions.

(6) Safety Precautions
   (a) Before firing
   (b) During firing

(7) Characteristic features of the several classes of warships.

(8) Pointing
   Methods of aiming and laying.

(9) Map reading.
   (a) Scales, contours and conventional signs
   (b) Location of a position by co-ordinates
   (c) Follow routes indicated on the map.

Duties of Observers:

(1) Definitions for Coast Artillery

(2) Position finding system
   (a) Detailed description of a position finding system
   (b) Indication and identification of targets
   (c) Spotting systems

(3) Position finding apparatus
   (a) Detailed instruction in the adjustment and use of all observing instruments and range finders.
   (b) Use of the telephone.

(4) Characteristic features of the several classes of warships.

(5) Map reading.

(6) Methods of Observation
   (a) Unilateral
   (b) Bilateral
   (c) Balloon
   (d) Airplane
(7) General duties of observers in observation posts,
(a) During land warfare
(b) During sea coast warfare

Duties of Plotter:
(1) Definition for Coast Artillery
(2) Position finding systems
(a) Detailed instruction of system
(b) Indication and identification of targets
(c) Duties of each member of the range section
(d) Emergency Systems and Salvo Points
(3) Position finding apparatus
   Instruction in the adjustments and use of position finding apparatus
(4) Elementary Gunnery
(5) Records and Reports

Anti-Aircraft Artillery

Duties of the Gun Commander:
(1) Definitions
(2) Guns and Carriages
   (a) Nomenclature, function and action of the several parts
   (b) Packing stuffing boxes; draining, cleaning and filling recoil cylinders and recuperators.
   (c) Adjustments of instruments used for sighting and aiming
(3) Pointing methods
(4) Mounting and dismounting of gun
(5) Records and reports
(6) Organization of a position

Duties of Chief of Range Section
(1) Definitions
(2) Methods of determining firing data
(3) Elementary Gunnery for Anti-aircraft Artillery
(4) Records and reports

Duties of the Observer:
(1) Definitions
(2) Methods of determining firing data
(3) Indication and identification of targets
(4) Records and reports
(5) Instruction in duties while at drill and service target practice.

GUNNERY: Instruction to familiarize the student with the elements of gunnery, the trajectory, the abnormal causes of deviation and the general means for their correction.

ARTILLERY MATERIAL: A study, prior to going to camp, of the several types of Artillery Material which will enable the student to recognize them when he sees them.
MILITARY LAW:
1. Theoretical Instruction:
   (b) Rules of Land Warfare—Lecture on General Principles
2. Practical Instruction:
   (a) Moot Court exercise.

ORIENTATION. Map reading and map sketching. Use of the Plane Table with alidade and the elements of military surveying.

MARKSMANSHIP. Instruction and Range Practice with the Browning Automatic Rifle.

SECOND YEAR ADVANCED COURSE

M. S. and T. Numbers 401, 402, 403.

INFANTRY TRAINING. Identical with that prescribed for First Year Advanced Students except they will be required to function in the higher grades of cadet officers.

PHYSICAL TRAINING. Same as prescribed for First Year Advanced.


ARTILLERY MATERIAL. Instruction to round out and supplement the information received and the instruction received during the First Year Advanced Material and also that gained by student while at Advanced Summer Camp.

ORIENTATION. Advanced instruction in the theory and practice of military surveying and its application to artillery problems. Training in the duties of the Artillery Orientation Officer.

ADMINISTRATION. Lectures and practical work covering the practical administration of a battery and the management of the soldier as well as interior economy. Preparation of papers pertaining to the administration of a battery. What a lieutenant should know concerning military correspondence, preparation and application of War Department forms, use and disposition of orders, bulletins and circulars.

MOTOR TRANSPORTATION. Classes of Army Motor Transportation and their uses. Motor vehicle assembly. Principles of internal combustion engines and gasoline engine details. Timing, en-

ARTILLERY TACTICS. Use of artillery in coast defense and in the field and the relation of artillery to the other arms.

FIELD ENGINEERING. Preparation of artillery positions and the emplacement of artillery material. The construction of simple trenches and obstacles.

MARKSMANSHIP. Instruction and range practice with the machine gun.

MODERN LANGUAGES AND LATIN

F. R. ARNOLD, Professor

JUNIOR COLLEGE COURSES

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.
M. W. F. 11:00. Room 351 Main.

4, 5, 6. SECOND YEAR FRENCH. French Composition for grammatical review and writing in French. Lavisse's Historie De France for conversation; translating works of nineteenth century authors. Prerequisite, French 1 or 2 years high school French. Fall, Winter and Spring quarters. Three credits each quarter.
M. W. F. 10:00. Room 351 Main.

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. Room 351 Main.
Spanish

1, 2. **First Year Spanish.** Grammar, conversation and reading. Winter quarter. Five credits.
M. W. Th. S. 9:00. Room 351 Main.

3. **Spanish.** Business correspondence, reading and conversation. Spring quarter. Three credits.
M. W. F. 9:00. Room 351 Main.

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Latin

1, 2, 3. Grammar and reading and study of English vocabulary, Fall, Winter and Spring quarters. Two credits each quarter.
T. Th. 10:00. Room 351 Main.

4. **Caesar and Cicero.** Fall quarter.
M. W. F. 9:00. Room 351 Main.
(Not given 1925-26.)

**Scientific Vocabulary 1.** Intensive study of English word formation, derivation, synonyms, and figurative language in order to acquire a large English vocabulary and readily to understand scientific terms. Especially recommended for students in Historical Geology. Spring quarter. Three credits.
T. Th. S. 9:00. Room 351 Main.

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**Senior College Courses**

French

101, 102, 103. **Reading Course in Balzac's Novels.** Prerequisite two years of college French or three years of high school. Fall, Winter and Spring quarters. One credit each quarter.
T. 12:00. Room 351 Main.
(Not given 1925-26.)

104, 105, 106. **French Conversation.** Games, dictation, learning of a one act play and writing business letters. Prereq-
uisite, two years of college French or three years of high school. Fall, Winter and Spring quarters. One credit each quarter.

F. 12:00. Room 351 Main.  

Arnold

107, 108, 109. Reading Course in Leading Plays of the Nineteenth Century. Prerequisites, two years of college French or three of high school. Fall, Winter and Spring quarters. One credit each quarter.

F. 12:00. Room 351 Main.  

Arnold

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.  

Arnold

German

101. Scientific German. Rapid reading of scientific texts in different subjects according to the course of each student. Especially 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. Fall quarter. Three credits.

M. W. F. 9:00, or hour to be arranged with instructor.  

Arnold
Students may enter the College Choir, glee clubs, orchestra or band without taking any other music course. One credit each quarter.

1, 2, 3. **Elementary Theory.** Reviews the ground work necessary for students desiring a thorough knowledge of music. Keys, scales, intervals, melody writing. Fall, Winter and Spring quarters. Two credits each quarter.

T. Th. 9:00. Room 252 A Main.

4, 5, 6. **Appreciation and History of Music.** From Text. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 11:00. Room 252 A Main.

7. **Analysis and Criticism.** For advanced students and soloists. Arranged to supplement private music study. Fall quarter. Two credits.

(Not given 1925-26.)

8. **American Music.** Winter quarter. Two credits. Prerequisite, Music 7.

(Not given 1925-26.)

9, 10, 11. **Elementary Harmony.** Text used. Home study, six hours as a minimum. Applied music, individual and ensemble. Prerequisite, 2 years’ study, piano or equivalent. Fall, Winter and Spring quarters. Five credits each quarter.

M. W. F. 10:00. Room 252 A Main.

15, 16, 17. **Counterpoint and Small Forms.** Prerequisite, Music 4. Fall, Winter and Spring quarters. Five credits each quarter.

(Not given 1925-26.)

*On leave of absence.
18, 19, 20. **Orchestra Class.** Provides study of standard orchestra works. Two hours a week. One credit each quarter. Fall, Winter and Spring quarters. Hours to be arranged.

21, 22, 23. **Choir.** To furnish music for chapel exercises and special occasions. Three hours per week. Fall, Winter and Spring quarters. One credit each quarter.

24, 25, 26. **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.

27, 28, 29. **Ladies' Chorus.** Membership is limited and decided by competition. Two hours a week. The Glee Club and Ladies' Chorus join in giving the college opera. Fall, Winter and Spring quarters. One-half credit each quarter. Room 251A Main.

32. **Public School Music for Supervisors.** Ability to play and sing required. Applied music in choir or glee club. Deals with theory and methods of teaching, music supervision and programs. Three hours per week. Spring quarter. See Professor Johnson before registering for this course. Prerequisites, Music 1, 2, 3, 4, 5, 6, 9, 10, 11. Three credits.

41, 42, 43. **Band.** To provide for study and practice of band instruments and to furnish music for athletic meets and outdoor gatherings. Fall, Winter and Spring quarters. One credit each quarter.
Private instruction may be had (the pupil paying the teacher's fee) in the following: Voice, Piano, Violin, Orchestral and Band Instruments. One credit a quarter in each course will be allowed if pupil is enrolled in Applied Music only.

For closely related courses see: Music for Scoutmasters (Education 22.) Public School Music for Grade Teachers (Education 29, 30).

PHYSICAL EDUCATION

W. B. Preston, M. D., Associate Professor.
E. Lowell Romney, Director of Athletics
Katherine Cooper Carlisle, Associate Professor.
Joseph R. Jenson, Associate Professor.
George Nelson, Instructor.
Lucile Owen, Assistant.

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 each 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 ten quarters. One credit hour is given for each quarter.

Freshmen are required to meet three times a week for corrective gymnastics and sophomores are required to take advanced course meeting twice a week. Juniors and seniors will be allowed a choice of activity, but they must report at least twice a week. If the juniors and seniors have not completed freshman or sophomore courses, they must do so.

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 consultation, 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, playground managers, directors of physical education for high schools, high school coaches, etc., this department offers an opportunity to major or minor in physical education.
All courses given in Men's gymnasium.

1A. **Elementary 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. F. 9:00
- Sec. 2. M. W. F. 10:00
- Sec. 3. M. W. F. 12:00

**Jenson**

1B. **Personal Hygiene.** 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. Required of all freshmen and will be given in connection with Physical Education 1. One lecture each week. Th. 12:00.

**Jenson**

2. **Advanced 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. 4. T. Th. 9:00
- Sec. 5. M. W. 11:00
- Sec. 6. M. W. 2:00
- Sec. 7. T. Th. 2:00
- Sec. 8. T. Th. 10:00

**Jenson**

3. **Physical Education.** This course is required of all juniors and seniors and includes a choice of any of the competitive activities offered by this department. The student will be held for two periods a week. Various leagues, tournaments, etc., will be arranged to make the work interesting. Students must register for one of following sections:

- Sec. 1. T. S. 12:00
- Sec. 2. M. W. 3:00
- Sec. 3. T. Th. 3:00
- Sec. 4. M. W. 8:00
- Sec. 8. T. Th. 8:00

**Jenson**
PHYSICAL EDUCATION FOR WOMEN

JUNIOR COLLEGE COURSES

All courses given in Women's Gymnasium.

13, 14, 15. FRESHMAN GYMNASTICS. This course consists of exercises arranged according to their hygiene, corrective and educational value; folk dancing and games, lectures in hygiene. Required for graduation. Three hours a week are required. Students must arrange with the instructor for the third hour. Fall, Winter, and Spring quarters. One credit each quarter.

- Sec. 1. M. W. 10:00
- Sec. 2. T. Th. 11:00
- Sec. 3. T. Th. 1:00

Carlisle

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. 11:00
- Sec. 2. T. Th. 10:00

Carlisle

19, 20, 21. INDIVIDUAL GYMNASTICS. The work of this course is given for those students who are physically unable to take Physical Education 13, 14, 15, 16, 17, 18. 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.

Carlisle

31, 32, 33. INTERPRETIVE DANCING. This course consists of dancing as based upon natural movements. It offers an opportunity for music interpretation and pantomimic dancing. Fall, Winter and Spring quarters.

One credit each quarter.

M. W. F. 2:00.

Carlisle
61, 62, 63. **Advanced Interpretive Dancing.** A continuation of 31, 32, 33. Open to students approved by instructor. Fall, Winter and Spring quarters. One credit each quarter.
M. W. F. 3:00

81, 82, 83. **Athletics.** A course designed to teach students to play basketball, baseball, volleyball and tennis. Fall, Winter and Spring quarters. One credit each quarter.
(Any three hours may be elected.)
M. 4:00. T. 5:00. W. 5:00. Th. 3:00.

91, 92, 93. **Swimming.** The three sections of the course will cover swimming for beginners, advanced swimming, diving and life saving. Fall, Winter and Spring quarters. One credit each quarter.
Sec. 1. T. Th. 1:00. F. 12:00.
Sec. 2. M. W. F. 2:00.
Sec. 3. M. W. F. 3:00.

**PROFESSIONAL COURSES**

**JUNIOR COLLEGE COURSES**

26, 27. **First Aid and Massage for Men.** This teaches how to apply immediate aid in case of sudden sickness or accident, bandaging, stopping of hemorrhage, resuscitation, application of simple antidotes in case of poisoning, caring for wounds, etc.
Theory and practice in massage.
Hours to be arranged.

71. **The Dramatic Game.** *For Women.* This course takes up the fundamental play rhythms and music; the study of 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.
T. Th. 9:00
72, 73. Theory and Practice of Plays and Games and Playground Administration. For men and women. Study of the theories offered in explanation of the play tendency with Joseph Lee’s *Play in Education* as collateral reading; methods of presenting material in school, gymnasium or playground; organization and administration of playground, school and city recreation. Winter and Spring quarters. Two credits each quarter.

T. Th. 9:00

*Carlsle and Jenson*

**SENIOR COLLEGE COURSES**

101, 102. 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. Winter and Spring quarters. Two credits.

W. F. 10:00

*Carlsle and Jenson*


M. W. F. 9:00. Room 287.

*Jenson*

108. Corrective Gymnastics. For women. This course is devoted to the application of gymnastics for the correction of such common defects as flat foot, spinal curvature, etc. Open to Juniors and Seniors. Prerequisite, Physical Education 106, 107. Spring quarter. Three credits.

M. W. F. 11:00

*Carlsle*

120. Methods of Coaching. A theoretical consideration of training and coaching of athletic teams. Fall and Winter quarters. One credit each quarter.

*Romney*
141, 152, 143. **Elementary Folk Dancing. For men and women.** Includes the study of simple folk and national dances. Study made of presentation of dance material to different age groups. Fall, Winter and Spring quarters. One credit each quarter.

T. Th. 2:00  

*Carlisle*

151, 152, 153. **Advanced Folk Dancing. For men and women.** Continuation of 141, 142, 143. Fall, Winter and Spring quarters. One credit each quarter.

T. Th. 3:00  

*Carlisle*

161, 162, 163. **Methods of Teaching Physical Education. For men.** This includes a comparison of the various systems of gymnastic teaching in vogue today. Also elementary and advanced instruction on various pieces of apparatus, tumbling, swimming, boxing and wrestling. Each student is expected to instruct under supervision. Fall and Winter quarters. Two credits each quarter. Text, Gymnastics Teaching, Skarstrom. Hours to be arranged.

*Jenson*

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 strength tests.

Spring quarter. Three credits.

M. W. F. 9:00.  

*Preston*

**ADDITIONAL COURSES REQUIRED FOR MAJORS IN PHYSICAL EDUCATION**

*Physiology 1. Anatomy and Physiology  
*Physiology 3. Personal Health  

*Carter*

*The credit for these courses may count toward a major in Physical Education.*
AGRICULTURAL COLLEGE OF UTAH

*Physiology 101. Health Education
*Physiology 102. Advanced Physiology.

*Education 140, 141, 142. Methods of Teaching Physical Education. Women.

Carter

PHYSICS

FRANK L. WEST, Professor.
WILLARD GARDNER, Professor.
N. E. EDLEFSEN, Assistant Professor.

JUNIOR COLLEGE COURSES

1, 2, 3. GENERAL PHYSICS. The elements of physics, including mechanics, heat, electricity and magnetism, sound and light. Physics 2 is open to Winter quarter students. Fall, Winter and Spring quarters. Three credits each quarter.
  Lec. T. Th. 9:00. Lab. M. T. W. or Th. 2:00 to 5:00. First floor Widtsoe Hall.

West

16. METEOROLOGY, or the 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

17, 18, 19. WIRELESS TELEGRAPHY AND TELEPHONY. Prerequisite, Physics 2. Fall, Winter and Spring quarters. Three credits each quarter.
  (Not given 1925-26.)

West

20. APPLIED MECHANICS AND ENGINES. Prerequisite, high school physics. Fall quarter. Five credits. Lec. M. W. F. 9:00. Lab. M. W. or T. Th. 2:00 to 5:00. First floor, Widtsoe Hall.

West
21. **Applied Electricity.** Prerequisite, high school physics. Winter quarter. Five credits. Lec. M. W. F. 9:00. Lab. M. W. or T. Th. 2:00 to 5:00. First floor, Widtsoe Hall

22. **Heat, Light and Sound.** Prerequisite, high school physics. Spring quarter. Five credits. Lec. M. W. F. 9:00. Lab. M. W. or T. Th. 2:00 to 5:00. First floor, Widtsoe Hall.

40. **Applied Electricity.** Prerequisite, elementary physics. Fall quarter. Three credits. (Not given 1925-26.)

**SENIOR COLLEGE COURSES**

104, 105, 106. **Physical Chemistry.** Including the atomic theory, Kinetic theory of gases, gaseous, liquid and solid states; solutions; thermo-chemistry, electro-chemistry and radioactivity and elementary thermo-dynamics. Prerequisites, general physics and chemistry. Fall, Winter and Spring quarters. Physics 107 is recommended to accompany this course. Three credits each quarter.

M. W. F. 10:00. First floor, Widtsoe Hall.

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.

**Edlefsen**

110, 111, 112. **Direct and Alternating Current Electricity and Its Application to Industry.** Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 11:00. First floor, Widtsoe Hall.

**Edlefsen**
150, 151, 152. **Applied Mechanics for Engineers.** Prerequisite, Calculus. Fall, Winter and Spring quarters. Five credits each quarter.
   Daily except Saturday. 8:00.  
   **Gardner**

160, 161, 162. **Statistical Methods.** For students of Agriculture and Business Administration. Prerequisite, Calculus. Fall, Winter and Spring quarters. Three credits each quarter.
   T. Th. S. 9:00. First floor, Widtsoe Hall.  
   **Gardner**

**GRADUATE COURSES**

209, 210, 211. **Theoretical Mechanics.** Prerequisite, Calculus. Fall, Winter and Spring quarters. Three credits each quarter.
   T. Th. S. 10:00. First floor, Widtsoe Hall.  
   **Gardner**

212, 213, 214. **Hydrodynamics.** Prerequisite, Calculus. Fall, Winter and Spring quarters. Three credits each quarter.
   T. Th. S. 10:00. First floor, Widtsoe Hall.  
   **Gardner**

215, 216, 217. **Mathematical Theory of Electricity and Magnetism.** Fall, Winter and Spring quarters. Three credits each quarter. Prerequisite, Calculus.
   T. Th. S. 10:00. First floor, Widtsoe Hall.  
   **Edlefsen**

218, 219, 220. **Thermodynamics and Physical Chemistry.** Prerequisite, Calculus. Fall, Winter and Spring quarters. Three credits each quarter.
   T. Th. S. 10:00. First floor, Widtsoe Hall.  
   **West**

221, 222, 223. **Relativity.** Prerequisite, Calculus. Fall, Winter and Spring quarters. Three credits each quarter.
   T. Th. S. 10:00. First Floor, Widtsoe Hall.  
   **West**
225. **Seminar.** One of the above graduate courses will be given each year. Fall, Winter and Spring quarters. Three credits each quarter.

T. Th. S. 10:00. First floor, Widtsoe Hall.

**Staff**

**Physiology and Hygiene**

**Joseph E. Greaves, Professor.**

**E. G. Carter, Assistant Professor.**

**Junior College Courses**

1. **Anatomy and Physiology.** A study of the structure and functions of the human body.

   **Sec. 1.** Fall quarter. Five credits.
   Daily, except Saturday 9:00. Third floor, Widtsoe Hall.

   **Carter**

   **Sec. 2.** Winter quarter. Five credits. Daily, except Saturday, 9:00. Third floor, Widtsoe Hall.

   **Carter**

   **Sec. 3.** Spring quarter. Five credits. Daily, except Saturday, 8:00. Third floor, Widtsoe Hall.

   **Carter**

2. **Laboratory Work in Anatomy and Physiology.** Sec.: 1. Fall quarter. One credit. Th. 2:00 to 5:00.

   **Carter**

   **Sec. 2.** Winter quarter. One credit. Th. 2:00 to 5:00.

   **Carter**

   **Sec. 3.** Spring quarter. One credit.
   Th. 2:00 to 5:00

   **Carter**

3. **Personal Health.** A study of the principles underlying the health and well-being of the individual. Prerequisite, Physiology 1. Fall quarter. Two credits.

   T. S. 10:00. Third floor, Widtsoe Hall.
14. Health Education. The health problems confronting the teachers in rural and urban schools. Winter quarter. Three credits.
T. Th. S. 10:00. Third floor, Widtsoe Hall.

Senior College Courses

101. Health Education. The laws and principles of hygiene and public health are stressed in relation to the school and community. Prerequisites, Bacteriology 1 and Physiology 1. Spring quarter. Three credits.
T. Th. S. 10:00. Third floor, Widtsoe Hall.

102. Physiology. An advanced course in special phases of physiology. Special emphasis will be placed upon the structure and function of the nervous system. Three credits. Winter quarter.
M. W. F. 10:00.

M. W. F. 10:00. Third floor, Widtsoe Hall.

112, 113, 114. Physiology. A study of the chemical transformation going on in the animal. Fall, Winter and Spring quarters. Prerequisites, Bacteriology 111. Two credits each quarter.
T. Th. 11:00. Third floor, Widtsoe Hall.
POLITICAL SCIENCE

F. D. Daines, Professor.
Asa Bullen, Professor.

JUNIOR COLLEGE COURSES

M. W. F. 9:00. Daines

2, 3. Governments of Europe. The government and parties of England will occupy the major part of the time of the Winter quarter. Typical governments of the continent—Switzerland, France, Russia and others. Fall and Spring quarters. Three credits each quarter.
M. W. F. 9:00. Daines

4. Municipal and Country Government. The relationship of the cities and counties of the State and Nation. Special attention will be given to the municipal and county government in Utah.
(Not given 1925-26.) Daines

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 1925-26.) Daines

6, 7. Problems of Government. The problems of government seen in their origins and development. Forms, functions and attributes of government, and the role of political parties and of the electorate. Prerequisites, Political Science 1, 2, 3 or General Economics, European History. Fall and Winter quarters. Three credits each quarter.
T. Th. S. 9:00. Daines
8. **Current International Problems.** The aim of the 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. Prerequisites, Political Science 1, 2, 3 or an equivalent. Spring quarter. Three credits.

T. Th. S. 9:00.

**Daines**

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.

M. W. F. 8:00. Room 352 Main.

**Bullen**

**SENIOR COLLEGE COURSES**

101, 102, 103. **International Relations.** Psychological, economic, racial and other obstacles to international cooperation. International organizations established prior to the World war. The Treaty of Versailles; the League of Nations; and present day world politics. Prerequisite, Political Science, 1, 2, 3 or an equivalent. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 11:00.

**Daines**

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.

T. Th. S. 8:00. Room 352 Main.

**Bullen**

106, 107, 108. **Commercial Law.** The law of property, real and personal, including deeds, conveyancing and abstracts of title, mortgages, wills and estates. The law of insurance and
debtor and creditor. Prerequisite, Political Science 11, 12, 13. Fall, Winter and Spring quarters. Three credits each quarter.
(Not given in 1925-26.)

T. Th. S. 8:00. Room 352 Main.

113, 114, 115. Municipal Government and Administration. The Government and problems of cities with special reference to American experience. Organization, personnel, and practices which have developed in the performance of the various business functions of city government. Prerequisites, Political Science 1, 2, 3 or an equivalent. Fall, Winter and Spring quarters. Three credits each quarter.
(Not given in 1925-26.)

116. Theory of the State. The nature of the State, its organization and activities, and its relation to individuals and to other States. Prerequisites, Political Science 1, 2, 3 or an equivalent. Fall quarter. Three credits.
M. W. F. 8:00.

117. American Political Ideas. Fundamental theories underlying American Political institutions and governmental policies. Prerequisites, Political Science 1, 2, 3, or an equivalent. Winter quarter. Three credits.
M. W. F. 8:00.

118. Political Parties. Their function in government; their organization and methods. Prerequisite, Political Science 1, 2, 3, or equivalent. Spring quarter. Three credits.
M. W. F. 8:00.
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. Prerequisite, Political Science 1, 2, 3, or an equivalent. Fall, Winter and Spring quarters. Three credits each quarter.

(Not given in 1925-26.)

Daines

124, 125, 126. **Public Opinion.** The aim of the course is to investigate the psychological and other factors involved in the determination of opinion on public questions. The reliability of sources of information and the subjective influence that must be taken into consideration are discussed. The use of various methods of spreading propaganda is considered. Prerequisite, Political Science 1, 2, 3 or an equivalent. Fall, Winter and Spring quarters. Three credits each quarter.

T. Th. S. 10:00.

RANGE MANAGEMENT AND FORESTRY

R. J. Becraft, Assistant Professor.

Note: A Major in Range Management and Forestry may include any course in this department, and Agronomy 106, Botany 101, 126 133, Entomology 109. For a major students are expected to take courses 31, 36, 51, 111, 136, and Botany 101, 126.

RANGE MANAGEMENT

JUNIOR COLLEGE COURSES

31. **Livestock Management on Ranges.** Methods of handling sheep and cattle on range lands. Winter quarter. Three credits.

Lec. T. Th. S. 10:00. Room 305 Livestock.

Becraft

36. **Range Management.** Forage plants, poisonous plants, range improvement and protection, grazing capacity, reconnais-
sance. Prerequisite, Botany 1 or 21. Spring quarter. Four
credits.
Lec. M. W. F. 8:00. Lab. M. 2:00 to 5:00. Room 305
Livestock.

Becraft

SENIOR COLLEGE COURSES

111. RANGE FORAGE PLANTS. Identification, distribution,
and economic value of important range plants. Prerequisites,
Range Management 36 and Botany 101. Spring quarter. Four
credits.
Lec. M. W. F. 11:00. Lab. W. 2:00 to 5:00. Room 305
Livestock.

Becraft

136. ADVANCED RANGE MANAGEMENT. A detailed study
of revegetation, seasonal use, grazing working plans. Prerequi-
sites, Range Management 36. Winter quarter. Three credits.
Lec. M. W. F. 11:00. Room 305 Livestock.

Becraft

142. RESEARCH. For students specializing in Range Man-
agement. Time and credit to be arranged.

Becraft

146. SEMINAR. Literature, personnel, current problems.
Spring quarter. One credit. Room 305 Livestock.

Becraft

FORESTRY

JUNIOR COLLEGE COURSE

51. GENERAL FORESTRY. A brief survey of forestry prac-
tice, forest regions, timber species, management, protection, local
problems. Prerequisite Botany 1 or 21. Winter quarter. Four
credits.
Lec. M. W. F. 9:00. Lab. M. 2:00 to 5:00. Room 305 Live-
stock.

Becraft
SENIOR COLLEGE COURSES

161. DENDROLOGY. Classification and distribution of important forest trees of the United States. Prerequisite, Forestry 51. (Desirable antecedent, Botany 101.) Fall quarter. Four credits.
(Not given in 1925-26.)

171. FOREST AND RANGE RESOURCES. Their conservation and use. Fall quarter. Three credits.
Lec. M. W. F. 8:00. Room 305 Livestock.

Becraft

(Not given in 1925-26.)

Becraft

181. SILVICULTURE. Forest influences, distribution, regeneration, care, improvement. Prerequisites, Forestry 51 and Botany 126. Winter quarter. Three credits.
Lec. T. Th. S. 11:00. Room 305 Livestock.

Becraft

RELATED COURSES

Agronomy 106. Soils.
Botany 101. Flowering Plants.
Botany 126. Plant Ecology
Botany 133. Forest Pathology
Entomology 109. Forest and Shade Tree Insects.
RURAL PUBLIC HEALTH

J. E. Greaves, Professor.
Ray B. West, Professor.
H. J. Frederick, Professor.
Ira M. Hawley, Professor.
W. B. Preston, Associate Professor.
Ezra G. Carter, Assistant Professor.
Charlotte Dancy, Assistant Professor.

JUNIOR COLLEGE COURSES

1. First Aid. Treatment of emergencies and accidents. Two sections. Winter quarter. Two credits. Hours to be arranged.  
   Preston

2. Home Health and Nursing. Special emphasis on the prevention of disease and on the building up of the highest degree of health. Treatment of functional disturbances, injuries, wounds, etc., receives due attention. Lectures, discussions and laboratory demonstrations. Reading of reference works, and special reports are required. Winter and Spring quarters. Three credits each quarter.
   Lec. M. W. 8:00. Room 12 H. E.; Lab. F. 2:00 to 3:00. Room 11 H. E.  
   Dancy

3. Pathogenic Bacteriology. The pathogenic bacteria are considered in relation to specific diseases, especially with regard to immunity. Prerequisite, Bacteriology 1. Breakage deposit, $2.50. Winter quarter. Five credits.
   Lec. M. W. F. 9:00. Lab. W. F. 2:00 to 5:00.
   Third floor, Widtsoe Hall.  
   Greaves and Carter

   Sec. 1. Fall and Winter quarters. Three credits.
   T. Th. S. 9:00. Third floor, Widtsoe Hall.  
   Carter
SENIOR COLLEGE COURSES

106. Water Supply and Waste Disposal. Methods of (a) supplying cities, farm and rural communities with sanitary water; (b) handling waste of the city, farm and small town. Fall quarter. Three credits.
T. Th. S. 9:00.

West

107. 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.

Greaves

M. W. F. 10:00. Third floor, Widtsoe Hall.

Greaves

110. Sanitary Statistics. Vital statistics showing effect of sanitary precautions upon health in cities and rural communities. Prerequisites, Bacteriology 1 and Physiology 108. Fall quarter. Two credits.
T. Th. 8:00. Third floor, Widtsoe Hall.

Carter

111. Parasitology. The classification, morphology and life history of human parasites. The disease-producing protozoans, flukes, tapeworms and round worms receive special study. Arthropods as external parasites and carriers of pathogenic organisms receive attention. This course should be taken by all pre-medical students. Fall quarter. Four credits. Lec. T. Th. S. 10:00. Lab. Th. 2:00 to 5:00.

Hawley
112. **Physiology.** An advanced course in special phases of physiology. Special emphasis will be placed upon the structure and function of the nervous system. Three credits. Winter quarter.

M. W. F. 10:00.  
_Carter_

113. **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 innate qualities of human beings. Prerequisite, Zoology 111. Winter quarter. Three credits.

M. W. F. 11:00.  
_Pack_

114. **Dairy Bacteriology.** (Lecture). The bacteria of milk, butter and cheese. Prerequisite, Bacteriology 1. Spring quarter. Two credits.

T. Th. 8:00. Third floor, Widtsoe Hall.  
_Carter_

115. **Dairy Bacteriology.** (Laboratory). Methods used in the bacteriological examination of milk and dairy products. Should accompany Rural Public Health 114. Prerequisites, Bacteriology 1 and 2. Breakage deposit, $2.50. Spring quarter. Two credits.

T. Th. 2:00 to 5:00. Third floor, Widtsoe Hall.  
_Carter_

116, 117, 118. **Physiology.** A study of the chemical transformation going on in the animal. Fall, Winter and Spring quarters. Prerequisite, Bacteriology 111. Two credits each quarter.

T. Th. 11:00. Third floor, Widtsoe Hall.  
_Greaves_

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.

Hours to be arranged.  
_Frederick_
JUNIOR COLLEGE COURSES

55. **Applied Sociology.** Constructive studies in rural sociology. Conditions and factors related to a satisfying country civilization will be studied. Fall quarter. Three credits.  
M. W. F. 10:00. Room 280 Main.

80. **Applied Educational Sociology.** By utilizing series of practical problems it is aimed to prepare the public school teacher for meeting the problems of school and community. Spring quarter. Three credits.  
T. Th. S. 8:00. Room 361 Main.

SENIOR COLLEGE COURSES

101. **Rural Sociology.** A study of forces and conditions of rural life as a basis for constructive action in developing and maintaining a scientifically efficient and wholesome civilization in the country will be made. It is aimed to train leaders so that the country can be made a desirable place in which to live as well as a place in which to make a living. Three credits.  
(Not given in 1925-26.)

150. **Principles of Sociology.** The foundations of sociology will be 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 will be carefully considered. Winter quarter. Three credits.  
T. Th. S. 9:00. Room 361 Main.
160. APPLIED SOCIOLOGY. Social problems and social policy. An analysis of the causes, extent, treatment and prevention of poverty, defectiveness, vice and crime will be made. In connection with this course it is planned to visit the state industrial school, penitentiary, insane asylum, etc. Prerequisite, Sociology 150. Spring quarter. Three credits.
T. Th. S. 9:00. Room 361 Main.

180. DEVELOPMENT OF SOCIAL THEORY. An inquiry as to the foundation upon which the present social structure rests and an examination of the processes by which modern social achievements have been accomplished.
(Not given in 1925-26.)

185. RURAL COMMUNITY ORGANIZATION AND LEADERSHIP. A course dealing with the factors and agencies which assist in integration of rural communities, summarizing the conscious efforts that have been made through resident forces for the sake of social progress. Special attention is placed on leadership, community studies and community programs of work. Fall quarter. Three credits.
T. Th. S. 9:00. Room 280 Main.

190. CONSTRUCTIVE SOCIAL POLICIES. A study of the theories and legislation dealing with the important social problems such as eugenics, the women's movement, industrial compensation, industrial education, etc.
(Not given in 1925-26.)

192. SEMINAR IN RURAL SOCIAL AND ECONOMIC PROBLEMS. Fall quarter. One hour credit.
Hours to be arranged.

195. RESEARCH. The purpose of this course is to direct mature students in original investigations in social problems. Credit and hours to be arranged.
STENOGRAPHY AND TYPEWRITING

P. E. Peterson, Professor.
Thelma Fogelberg, Instructor.

STENOGRAPHY

SENIOR COLLEGE COURSE

1, 2, 3. ELEMENTARY STENOGRAPHY. Thorough drill in the fundamental rules of the Isaac Pitman system of shorthand. Fall, Winter and Spring quarters. Four credits each quarter.
Daily, except T. and S. 11:00.

4, 5. ELEMENTARY STENOGRAPHY. Thorough drill in the fundamental rules of the Gregg system of shorthand. Winter and Spring quarters. Five credits each quarter.
Daily except S. 3:00. Room 305 Main.

6, 7, 8. ADVANCED STENOGRAPHY. Thorough review of the principles and drill in the attainment of speed. Open to both Gregg and Pitman students. Fall, Winter and Spring quarters. Four credits each quarter.
Daily except T. and S. 9:00. Room 305, Main.

SENIOR COLLEGE COURSES

101. ADVANCED THEORY AND METHODS. This course aims to prepare teachers as well as to furnish the advanced practice which is essential to those intending to enter the profession of stenography. This course will not be given unless six or more students apply. Fall, Winter and Spring quarter. Three credits.
(Not given in 1925-26.)

TYPEWRITING

Students must consult with instructor in order to arrange for sections.

1, 2, 3. BEGINNING COURSE. Correct fingering and proper manipulation of the machine. Fall, Winter and Spring quarters. One credit each quarter. Room 303 Main.
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. 9:00  Sec. 7. T. Th. 9:00
Sec. 2. M. W. F. 10:00  Sec. 8. T. Th. 10:00
Sec. 3. M. W. F. 11:00  Sec. 9. T. Th. 11:00
Sec. 4. M. W. F. 2:00  Sec. 10. T. Th. 1:00
Sec. 5. M. W. F. 3:00  Sec. 11. T. Th. 2:00
Sec. 6. T. Th. 8:00  Sec. 12. T. Th. 3:00

4, 5, 6. SECOND YEAR COURSE. Daily exercises in which accuracy and speed are attained. Fall, Winter and Spring quarters. One credit each quarter. Room 303 Main.

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. 9:00  Sec. 7. T. Th. 9:00
Sec. 2. M. W. F. 10:00  Sec. 8. T. Th. 10:00
Sec. 3. M. W. F. 11:00  Sec. 9. T. Th. 11:00
Sec. 4. M. W. F. 2:00  Sec. 10. T. Th. 1:00
Sec. 5. M. W. F. 3:00  Sec. 11. T. Th. 2:00
Sec. 6. T. Th. 8:00  Sec. 12. T. Th. 3:00

7, 8, 9. ADVANCED TYPEWRITING. Advanced speed work and intensive drill in tabulation. Fall, Winter and Spring quarters. One credit each quarter. Room 303 Main.

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. 9:00  Sec. 7. T. Th. 9:00
Sec. 2. M. W. F. 10:00  Sec. 8. T. Th. 10:00
Sec. 3. M. W. F. 11:00  Sec. 9. T. Th. 11:00
Sec. 4. M. W. F. 2:00  Sec. 10. T. Th. 1:00
Sec. 5. M. W. F. 3:00  Sec. 11. T. Th. 2:00
Sec. 6. T. Th. 8:00  Sec. 12. T. Th. 3:00
Textiles and Clothing (See Page 249)

VETERINARY SCIENCE

H. J. Frederick, Professor.

JUNIOR COLLEGE COURSES

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. Room 203 Livestock.

   Lec. T. Th. S. 8:00. Clinic W. or Th. 2:00 to 5:00. Fall quarter.
   Lec. M. W. F. 10:00. Clinic W. or Th. 2:00 to 5:00. Winter quarter.

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 dissection, and illustrated by skeletons and models. Fall, Winter and Spring quarters. Three credits each quarter.

   Given if 10 students apply.

30, 31. 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. Room 203 Livestock.

Frederick

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 phy-
siology; 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.

M. W. F. 9:00. Room 203 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 W. and Th. 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 disease. Winter quarter; repeated Spring quarter. Three credits.

T. Th. S. 9:00. Room 203 Livestock.

*Frederick*

SENIOR COLLEGE COURSES

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.

Lec. T. Th. S. 8:00. Clinic 2:00 to 5:00. Winter quarter.

Lec. M. W. F. 10:00. Clinic 2:00 to 5:00. Spring quarter.

*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. Clinic W. or Th. 2:00 to 5:00. Room 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. Hours to be arranged.

Frederick

ZOOLOGY

I. M. HAWLEY, Professor.
H. J. PACK, Associate Professor.

See Department of Entomology for related work.

Students specializing in Zoology must take courses 3, 4, 101, 106, 111, 112, 124, 125 and 126. Entomology 3 and Scientific Vocabulary 1 are also required.

JUNIOR COLLEGE COURSES

1, 2, ELEMENTARY GENERAL ZOOLOGY. A study of morphology, physiology, differentiation, adaptation, heredity 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 before and who desire only a general view of the subject. It is recommended for all students except those in Agriculture and Basic Arts and Science who desire a more comprehensive course.
Section 1. Fall and Winter quarters; Section 2, Winter and Spring quarters. Three credits each quarter.
Sec. 1. Lec. T. Th. 8:00. Lab. T. or F. 2:00 to 5:00.
Sec. 2. Lec. T. Th. 1:00 Lab. Th. or F. 2:00 to 5:00.

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.

SENIOR COLLEGE COURSES

101, 102. COMPARATIVE ANATOMY. The morphology, physiology and anatomy of the animal body. Prerequisite, Zoology 1, 2 or 3, 4. Zoology 101 is prerequisite to Zoology 102 and both are prerequisite to Zoology 103. Fall and Winter quarters. Four credits each quarter.
Hours to be arranged. Two lectures and two laboratories a week. (Not given in 1925-26.)

(Not given in 1925-26.)

106. PARASITOLOGY. The classification, morphology and life history of human parasites. The disease-producing protozoans, flukes, tapeworms 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. Fall quarter. Four credits. Lec. T. Th. S. 10:00. Lab. Th. 2:00 to 5:00.
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, 2 or 3, 4. Fall quarter. Three credits.
M. W. F. 11:00.

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 innate qualities of human beings. Prerequisites, Zoology 111. Winter quarter. Three credits.
M. W. F. 11:00.

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 credits to be arranged.

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 COURSE

201. 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.

Hawley and Pack
School of Agricultural Engineering

AGRICULTURAL ENGINEERING

AGRICULTURAL SURVEYING

RAY B. WEST, Professor.
EDMUND FELDMAN, Associate Professor.

JUNIOR COLLEGE COURSES

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, retracting of section lines, and laying out drains and buildings. Spring quarter. Three credits. Room 203. Ag. Eng.
   Lec. F. 11:00. Lab. T. Th. 2:00 to 5:00.

2. SURVEYING FOR AGRICULTURAL ENGINEERS. This is a more thorough course than Surveying 1, and covers, in addition to the above, a study of the instruments used by engineers. Fall quarter. Three credits. Room 203 Ag. En.
   Lec. Th. 10:00. Lab. M. W. 2:00 to 5:00.

   Lec. Th. 10:00. Lab. M. W. 2:00 to 5:00.

4. MAPPING. Practice in the mapping of the various kinds of surveys that may be encountered by the Agricultural Engineers. Winter quarter. Three credits. Room 307 Ag. Eng. (See Mechanical Drawing 31.)
   Lab M. T. Th. 2:00 to 5:00.
SENIOR COLLEGE COURSES

101. Soil and Other Agricultural Surveys. The methods of preparing maps of a given agricultural area and surveys of the agricultural interests within the area. Fall quarter. Three credits. Prerequisite, Surveying 1. Open to Junior college students. Room 203 Ag. Eng. Hours to be arranged.

102. Canal and Road Surveying. Instructions and practice in the application of surveying methods used in the layout and construction of canals and roads. Prerequisite, Surveying 2 and 3. Spring quarter. Five credits. Room 203 Ag. Eng. May be used as a major in Highways. Lec. M. W. F. 9:00. Lab M. W. 2:00 to 5:00.

APPLIED MECHANICS AND DESIGN

RAY B. WEST, Professor.
WILLARD GARDNER, Professor.
EDMUND FELDMAN, Associate Professor.

JUNIOR COLLEGE COURSES

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, cement and concrete testing. Fall quarter. Two credits. Concrete Lab. Ag. Eng. T. Th. 2:00 to 5:00.

SENIOR COLLEGE COURSES

101, 102. Theoretical Mechanics. (See Physics 151). 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 Saturday 8:00.
AGRICULTURAL COLLEGE OF UTAH


GRADUATE COURSES

   Hours to be arranged.

Feldman

   Hours to be arranged.

Feldman

HIGHWAY ENGINEERING

RAY B. WEST, Professor.
WILLIAM PETERSON, Professor.
EDMUND FELDMAN, Associate Professor.

1. HIGHWAY CONSTRUCTION. Location, grade, drainage, resistance to traction, road materials, construction methods and costs. Fall quarter. Five credits. Room 203 Ag. Eng.
   Daily except Tuesday. 11:00.

West

2. ROAD MATERIALS. Dynamical and structural geology as it applies to construction. Special attention is given to materials affecting highway construction, dams, excavations. Winter quarter. Five credits. Room 283 Main.
   Daily except Tuesday. 11:00.

Peterson

4. 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. 9:00. Room 203 Ag. Eng.

West
5. **Highway Structures and Design.** The design of manholes, catch basins, fences and guard rail details, road and pavement cross-sections etc. Any quarter. Two credits. (See Mechanical Drawing 14.)

Hours to be arranged. Room 203 Ag. Eng.

**Feldman**

**SENIOR COLLEGE COURSES**

101. **Road Maintenance.** Road organizations, employment of labor, cost of maintenance, width of tires, size of wheels, maintaining drainage, repairing worn surfaces, comparison of different road machines, etc. Spring quarter. Three credits. Room 283 Main.

M. W. F. **Peterson**

102. **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.

Lec. M. W. F. 8:00. Room 203 Ag. Eng. **West**

103. **Contracts and Specifications.** The form and essential considerations in drawing up engineering contracts and specifications. Fall quarter. Three credits.

Lec. M. W. F. 9:00. Room 203 Ag. Eng. **West**

104, 105, 106. **Seminar.** One credit per quarter. Room 205 Ag. Eng. Fall quarter. M. 2:00 to 5:00. Winter quarter F. 2:00 to 5:00. Spring quarter T. 2:00 to 5:00. **West**

107. **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. 9:00 **West**
AGRICULTURAL COLLEGE OF UTAH

RURAL ARCHITECTURE

RAY B. WEST, Professor.
CALVIN FLETCHER, Professor.
EDMUND FELDMAN, Associate Professor.

JUNIOR COLLEGE COURSES

1. FARM STRUCTURES. The arrangement, design and construction of barns, stables, poultry houses, silos and other farm structures. Prerequisite, Mechanical drawing 1 or 2. Winter quarter. Three credits.
   Lec. M. W. F. 11:00. Room 203, Ag. Eng.
   West and Feldman

2. POULTRY HOUSE DESIGN. The plans and layout of the various types of structures used in Poultry Husbandry, complete layout of poultry ranch. Prerequisites, Rural Architecture 1, or Mechanical Drawing 1 and 2. Three credits. (See Mechanical Drawing 4). Any quarter.
   T. Th. S. 9:00 to 12:00. Room 307 Ag. Eng.
   Feldman

3. BARN AND STABLE DESIGN. Various types of barns and stables. Layouts and construction. Prerequisite, Rural Architecture 1, or Mechanical Drawing 1 and 2. Three credits. (See Mechanical Drawing 5). Any quarter.
   T. Th. S. 9:00 to 12:00. Room 307 Ag. Eng.
   Feldman

4. CONCRETE CONSTRUCTION FOR AGRICULTURAL PURPOSES. Various mixtures of cement and their uses; the use of concrete in making of barns, water troughs, posts, etc. Spring quarter. Three credits.
   Hours to be arranged.

5. PLANNING OF FARM STRUCTURES AND HOMES. The making of plans for farm buildings, including complete specifications, costs of materials and construction. Winter quarter.
   Hours to be arranged.

West
6. **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.

Daily except Saturday 10:00. Room 203 Ag. Eng.

**SENIOR COLLEGE COURSES**

101. **Rural Architecture.** Architectural composition, study of the principles of composition as applied to building, emphasis being placed on correction of common errors in the design of elevations. For related work see Art 24, and Horticulture 8. Open to junior college students. Ten studio hours. Fall quarter. Three credits. Art Studio, Main.

Hours to be arranged.

102. **Architectural Composition.** Continuation of course 101 with special attention to the relation of all the parts of the exterior and architectural effects in environment. For related work see Horticulture 9. Prerequisite, Rural Architecture 101. Open to Junior college students. Ten studio hours. Winter quarter. Three credits.

Hours to be arranged. Art studio, Main.

103. **Styles in Architecture.** Study of the great styles or periods of architecture with special attention to those phases most vital to an understanding of modern buildings. Open to junior college students. Ten studio hours. Spring quarter. Three credits. Art Studio, Main.

Hours to be arranged.
IRRIGATION AND DRAINAGE

O. W. Israelsen, Professor.
George D. Clyde, Assistant Professor.
Asa Bullen, Special Lecturer.

Students who major in Irrigation and Drainage will be required to complete all of the Junior College and Senior College courses or their equivalents and to present a thesis concerning some special problem to be assigned by the Department, as announced in Course 110, 111.

They will also be required to spend at least one summer of 12 weeks in doing some kind of practical work in irrigation or drainage, for which they may receive remuneration; such work to be approved by the head of the department.

JUNIOR COLLEGE COURSE

1. Irrigation and Drainage Practice. Water measurement, effect of soil and plant 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.

Sec. 1. Fall Quarter for Students in Engineering.
Sec. 2. Spring quarter for students in Agriculture. Five credits.
Room 304 Ag. Eng.
Lec. M. W. F. 11:00. Sec. 1. Lab. M. W. 2:00 to 5:00.
Sec. 2. Lab. M. Th. 2:00 to 5:00. (Will not be given during the fall of 1925.)
Fall Quarter.
Spring quarter.

SENIOR COLLEGE COURSES

Lec. M. W. 9:00. Lab. F. 2:00 to 5:00. Room 304 Ag. Eng.
103. **Design of Drainage Systems.** Preliminary survey, location of drains, flows in open channels and construction of drainage systems with special reference to the drainage of irrigated lands. Prerequisites, Irrigation 101 and 102, Spring quarter. Five credits.

Lec. M. W. F. 10:00. Lab. S. 8:00 to 12:00. Room 304 Ag. Eng.


Lec. M. W. F. 10:00. Lab. M. W. 2:00 to 5:00.

107, 108. **Irrigation Institutions.** (Given by the Departments of Irrigation and Drainage and Political Science, jointly.) Water right doctrines, laws governing the adjudication and acquisition of water rights and the distribution of water; organization of irrigation enterprises. Prerequisite or parallel, a general course in Economics or Sociology. Winter and Spring quarters. Three credits each quarter.


T. Th. S. 8:00. Spring quarter. Room 352 Main.

110, 111. **Undergraduate Thesis and Seminar.** Papers and discussions upon problems concerning irrigation or drainage. Required of students who major in Irrigation and Drainage. Fall and Winter quarters. One credit each quarter.

Hours to be arranged.
AGRICULTURAL COLLEGE OF UTAH

GRADUATE COURSES

As a condition for enrollment in a graduate course, the student must submit satisfactory evidence of his qualifications for the work proposed to the professor in charge of the course.

206. MANAGEMENT AND OPERATION OF IRRIGATION SYSTEMS. Delivery of water to irrigators, annual water charges, operation costs. Prerequisites, Design of Irrigation Systems. Winter quarter. Three credits.

Hours to be arranged.

Israelsen

230. HYDROLOGY. The occurrence, utilization and control of water, rainfall, stream flow and runoff, measurements and records, reservoirs, and pumping for irrigation. Open to specially prepared seniors. Winter quarter. Three credits.

Hours to be arranged.

Clyde

298. RESEARCH IN IRRIGATION AND DRAINAGE. Specially prepared undergraduate, or graduate students 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.

Israelson and Clyde

School of Mechanic Arts

FARM AND AUTO MECHANICS

A. H. Powell, Associate Professor.
S. R. Stock, Instructor.

Students wishing to graduate in the department of Auto Mechanics may major in Automobiles, Ignition or Tractors. Minor must include 12 hours of machine work and 6 hours of forging. Students specializing in Ignition must elect eighteen hours of the special group in
either or both of the departments of Auto Mechanics and Tractors. Students specializing in Auto Mechanics and Tractors must elect eighteen hours of their special group to Ignition.

AUTO MECHANICS

JUNIOR COLLEGE COURSES

Six hours forging and twelve hours machine work is required of all men specializing in Auto Mechanics.

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. Four credits. Room 205 Mech. Arts.
   Sec. 1. Fall quarter. M. W. F. 8:00 to 11:00.
   Sec. 2. Spring quarter. T. Th. S. 8:00 to 11:00.

   M. W. F. 8:00 to 11:00.

3. AUTOMOBILE CARE AND MAINTENANCE. (Special) For winter students only. This course is designed 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 car owner has to be familiar with if he is going to do his own repairing and care for his car properly. Four credits. Winter quarter. Room 205 Mech. Arts.
   T. Th. S. 8:00 to 11:00.

Auto Mechanics 4, 105 and 106 are advanced courses. They must be taken by all students who intend to specialize in gar-
age management, garage practice, teaching or repairing. The courses 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, Auto Mechanics 1 and 2 or their equivalent.

4. **Automobile Repair.** Four credits. Spring quarter.
   Room 205 Mech. Arts.
   M. W. F. 8:00 to 11:00.

SENIOR COLLEGE COURSES

105. **Automobile Repair.** Prerequisites, Auto Mechanics 4.
   M. W. F. 2:00 to 5:00.

106. **Automobile Repair.** A continuation of Auto Mechanics 105. Includes shop methods and equipment. Prerequisite, Auto Mechanics 105.
   M. W. F. 2:00 to 5:00.

107. **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, Auto Mechanics 4 and Ignition 119.
   T. Th. 2:00 to 5:00.

FARM MECHANICS

JUNIOR COLLEGE COURSES

9. **Farm Motors.** This course will cover the care, adjustment and lubrication of the automobile, the 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, babbiting and fitting of babbited bearings, soldering, the fundamental principles of power transmission by the use of belting and pulleys, care of belts and speed calculations. Fall, Winter and Spring quarters. Three credits.

Lab. W. F. 2:00 to 5:00. Room 202 Mech. Arts.

10. Farm Motors. A continuation of the above course taking into consideration advanced work on the care and operation of gas engines and other equipment. Time and credit to be arranged.

12. Farm Shop Repair Work. 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 or Spring quarter. Two credits.

T. Th. 2:00 to 5:00. Room 107 Mech Arts.

14. Farm Machinery. A complete assembling, adjusting, care and repair of the various types of farm implements and farm machinery. Spring quarter. Four credits.

Lec. T. Th. 1:00 to 2:00. Lab. W. F. 2:00 to 5:00. Room 202 Mech. Arts.

IGNITION, STARTING AND LIGHTING

Six hours forging and twelve hours machine work is required of all men specializing in Ignition, Starting and Lighting.
15. **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. Room 203 Mech. Arts.

16. **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. Room 203 Mech. Arts.

M. W. F. 8:00 to 11:00.

17. **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, Ignition 15. Four credits. Room 203, Mech. Arts.

Sec. 1. Fall quarter, M. W. F. 2:00 to 5:00.
Sec. 2. Winter quarter. M. W. F. 2:00 to 5:00.

18. **High and Low Tension Magnetos.** A complete study of all low and high tension magnetos as to design, construction and operation. Prerequisite, Ignition 15. Spring quarter. Four credits. Room 203 Mech. Arts.

T. Th. S. 8:00 to 11:00.
119. **Ignition Trouble Work.** The systematic location of trouble, service work, adjusting and minor repairs. Fall quarter. Four credits.
   M. W. F. 8:00 to 11:00.

120. **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 vibrating 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 student to handle such work in the repair shop. Prerequisite, Ignition 15 and 18. Winter quarter. Four credits. Room 203 Mech. Arts.
   T. Th. S. 8:00 to 11:00.

121. **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 commutator 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 20, 22, and 24. Spring quarter. Four credits.
   M. W. F. 8:00 to 11:00. Room 203 Mech. Arts.

122. **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 costs and installation of battery shop equipment. Four credits.
   Spring quarter. T. Th. 1:00 to 5:00.
123. **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 120. Spring quarter.

M. W. F. 2:00 to 5:00.

Stock

**OXY-ACETYLENE, ELECTRIC ARC AND RESISTANCE WELDING**

The following courses in Oxy-Acetylene Welding, Electric Arc, and Resistance Welding will prepare the student to handle the commercial work found in the ordinary welding shops.

**JUNIOR COLLEGE COURSES**

26. **Oxy-Acetylene Welding.** The oxy-acetylene welding process, equipment and gasses, 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 preheating 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 the course. Winter quarter. Room 202 Mech. Arts.

Sec. 1. T. Th. S. 8:00 to 11:00. Four credits.

Sec. 2. T. Th. 2:00 to 5:00. Three credits

Powell

27. **Oxy-Acetylene Electric Arc and Resistance Welding.** This course is in part a continuation of the preceding course. In addition, electric arc and resistance welding will be taken up. The work includes an elementary course in metallurgy, the use and application of the oxy-acetylene welding flame in the industrial field and advanced work in the welding of cast iron,
steel, aluminum, bronze and other metals. A special fee of $25.00 is required of all students taking this course. Spring quarter. Three credits.

T. Th. 2:00 to 5:00. Room 202 Mech. Arts.

**TRACTOR REPAIR AND OPERATION**

**JUNIOR COLLEGE COURSES**

28. GASOLINE TRACTION ENGINE OPERATION AND REPAIRS. (Special) For Winter quarter students only. Offered for men who wish to qualify to do their own minor repairs, adjustments, and operation. Special attention will be given to the methods of tractor overhauling and repairing on the farm. Winter quarter. Four credits.

T. Th. S. 8:00 to 11:00. Room 206 Mech. Arts.

29. GASOLINE TRACTOR OVERHAULING. The overhauling of the tractor including babbiting of bearings, fitting of new parts and the operation of the tractor. Prerequisite, Tractor Design and Operation 24. Fall quarter. Four credits.

M. W. F. 2:00 to 5:00. Room 206 Mech. Arts.

**SENIOR COLLEGE COURSES**

130. GASOLINE TRACTOR OVERHAULING. A continuation of Tractor Repair and Operation 27. Winter quarter. Four credits.

M. W. F. 2:00 to 5:00. Room 206 Mech. Arts.

131. 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. Prerequisite, Tractor Repair and Operation 27 and 128. Fall quarter. Four credits.

T. Th. S. 8:00 to 11:00. Room 206 Mech. Arts.
VULCANIZING AND TIRE REPAIR
JUNIOR COLLEGE COURSES

32. Vulcanizing and Tire Repair. A thorough course in the repairing of casing and tubes, including the building up of tire sections. This course is for men who wish to qualify to take charge of a tire repair shop. Winter quarter. Three credits.
   T. Th. 2:00 to 5:00. Room 204 Mech. Arts.

33. Vulcanizing and Tire Repair. A continuation of Tire Repair 32. It also includes retreading, shop problems and equipment. Prerequisites, Tire Repair 32. Spring quarter. Three credits.
   T. Th. 2:00 to 5:00. Room 204 Mech. Arts.

MECHANIC ARTS
FORGING AND GENERAL BLACKSMITHING
Roy 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.

JUNIOR COLLEGE COURSES

1, 2, 3. Forge Practice. Forging, welding, tempering, tool making and other operations essential to forge shop work. Open to Vocational students. Fall, Winter and Spring quarters.
   Sec. 1 and 2 daily 8:00 to 11:00. Seven credits.
   Sec. 3 and 4 daily, except Saturday, 2:00 to 5:00. Six credits.
   May not be used to fill requirements for major.

4, 5, 6. Forge Shop Operations. Advanced and general repair work, including plow work, spring work, axle and tire setting, and horseshoeing. Prerequisites, Forge Practice 1, 2, 3. Fall, Winter and Spring quarters.
   Sec. 1, daily 8:00 to 11:00. Six credits.
   Sec. 2, daily, except Saturday, 2:00 to 5:00. Five credits.

Egbert
7, 8, 9. Select Work from Forge Practice 1, 2, 3 for automobile and tractor students who cannot spend each day in the shops. Fall, Winter and Spring quarters. Sec. 1, 2, 3, four credits each quarter. Sec. 4, three credits each quarter.
Sec. 1. M. W. F. 8:00 to 11:00.
Sec. 2. T. Th. S. 8:00 to 11:00.
Sec. 3. M. W. F. 2:00 to 5:00.
Sec. 4. T. Th. 2:00 to 5:00.

Egbert

10. Advanced Short Course. For students who have had some work, but cannot fit the regular schedule. Work selected from regular courses. Time and credit to be arranged with instructor.

Egbert

11, 12, 13. Farm Shop Work. This course is especially arranged for students in agriculture. The application of forging operations to repairs on the farm. The repairing of the following farm implements will be included in the course: plow, harrow, wagon, hayrake, mowing machine, binder, header, etc. Making and tempering punches, 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.

Egbert

14, 15, 16. Automobile Repairs. Repairing and building bodies, wheels and springs. Prerequisites, Forge Practice 1, 2, 3. Fall, Winter and Spring quarters.
Sec. 1. Daily, 8:00 to 11:00. Six credits.
Sec. 2. Daily, except Saturday, 2:00 to 5:00. Five credits.

Egbert

Senior College Courses

100, 101. 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 4, 5, 6. Fall and Winter quarters. Five credits each quarter.
Daily 2:00 to 5:00.
Credit will be given for unfinished courses according to work done. Not less than two credits will be given.

Egbert

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.

All courses given in Machine Shops, Mechanic Arts Building

JUNIOR COLLEGE COURSES

1, 2, 3. MACHINE SHOP PRACTICE. Lathe, planer, shaper, drill press operations, the use of hand tools, laying out and making automobile and machine parts and other operations essential to machine shop practice. The shop work is supplemented each quarter by a course in shop technology and shop mathematics. Open to vocational students. These courses may not be used to fill requirements for major.
Daily 2:00 to 5:00. Fall, Winter and Spring quarters.
Six credits.
Daily 8:00 to 11:00. Winter quarter. Seven credits.
4. SHORT COURSE. Work selected from Machine Shop Practice 1. Open to vocational students. Four credits.
Fall, Winter and Spring quarters.
M. W. F. 8:00 to 11:00.
M. W. F. 2:00 to 5:00.

5. ADVANCED SHORT COURSE. Work selected from Machine Shop Practice 2 including Shop Technology and Shop Mathematics. Prerequisite, Short Course. Open to vocational students. Four credits. Fall, Winter and Spring quarters.
M. W. F. 8:00 to 11:00.
M. W. F. 2:00 to 5:00.
   Daily 8:00 to 11:00. Six credits.
   Daily 2:00 to 5:00. Five credits.

Senior College Courses

101, 102, 103. Tool Making. These courses include practice in making arbors, gauges, taps, reamers, milling cutters, etc., and in designing and building special tools. Prerequisite, General Machine Work. Fall, Winter and Spring quarters.
   Daily 8:00 to 11:00. Six credits.
   Daily 2:00 to 5:00. Five credits.
   Note: For unfinished courses, credit will be given according to work done. Not less than two credits will be given.

Mechanical Drawing

Edmund Feldman, Associate Professor.

Drawing rooms are open from 8:00 to 5:00 p.m. daily. Supervised instruction given from 9:00 to 12:00 and 2:00 to 5:00 on Tuesdays, Thursdays and Saturdays. Three hours per week are required for one credit, but credit will be granted upon the basis of the amount of work completed. All classes carried out simultaneously in Room 307 Agricultural Engineering Building. The following courses are offered each quarter:

1. Agricultural Drawing. The use and care of instruments and orthographic projection. Two credits.
4. **Poultry House Design.** Complete working drawings of various types of poultry houses. Two credits. Prerequisites, Drawing 1 and 2.

5. **Barn Layout and Design.** Working drawings of various types of barns. Two credits. Prerequisites Drawing 1 and 2.

6. **Landscape Drawing.** For students of Horticulture. Two credits.

11. **Engineering Drawing.** The use and care of instruments, applied geometry and orthographic projection. Three credits.


14. **Highway Structures.** Structural problems such as bridges, dams, retaining walls, etc., in orthographic projection. Two credits.

21. **Drawing for Builders and Mechanics.** The use and care of instruments and orthographic projections. Two credits.

22. **Drawing for Mechanics.** Drawing of shop exercises in orthographic projection and free hand sketching of machine parts. Two credits. Prerequisite, Drawing 21.

23. **Drawing for Builders.** Building details such as walls, windows, doors, etc. Two credits. Prerequisite, Drawing 21.

24. **Machine Drafting.** Drawing of fastenings such as bolts, screws, etc. Two credits. Prerequisites, Drawing 21 and 22 or 10 and 11.

25. **Machine Drafting.** Detail drawings of machine parts. Three credits.

26. **Machine Drafting.** Assembly and detail drawings of machine and machine parts. Three credits.

31. **Map and Topographical Drawing.** Surveys, symbols, topographical maps, etc. Three credits.

41. **Lettering and Designing of Commercial and Other Forms.** For students of accounting. Three hours work for 1 credit.
111. **Descriptive Geometry.** Of practical value to the mechanic and engineer in making and reading working drawings and in solving graphical problems. The point, line, plane and simple solids are studied. Any quarter. Five credits. Hours to be arranged.

112. **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.

114. **Irrigation Drafting.** Drafting of irrigation structures including pumping plants, etc., in orthographic projection. Three credits. Any quarter.

121. **Architectural Drawing.** The complete working drawings for a small farm house including plans, elevations, specifications, and necessary details. Five credits. Any quarter.

131. **Advanced Topographical Drawing.** Complete topographical maps, contours, lettering, coloring, etc. Three hours for 1 credit. Any quarter.

**WOODWORK AND HOUSEBUILDING**

A. J. Hansen, **Associate Professor.**  
D. A. Swenson, **Instructor.**

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 a.m. to 12:00 m. 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.
JUNIOR COLLEGE COURSES

1. Elementary Woodwork. Scarfing, morticing, dovetailing and jointing. Proper handling of tools is emphasized.
2. Elementary Woodwork. Panels, sashes, doors, etc., and rafter cutting; also thorough practice in tool sharpening.
3. Elementary Woodwork. Feedhoppers, trestles, gates, grindstone frames, beehives, etc., and simple furniture.

These courses may not be used to fill requirements for major.

Hansen


Swensen

7, 8, 9. 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, fuming, etc.

Swensen

10. Farm Woodwork. A special course for students who expect to specialize in farming. Embraces such problems in woodwork as are commonly met on the farm. Three hours daily and three days a week throughout the year. Three credits each quarter.

Hansen

11. Wood Carving. Simple problems in straight and curved lines, simple conventional ornaments and natural foliage. Time and credit to be arranged with the instructor.

Swensen

SENIOR COLLEGE COURSES

101, 102, 103. Advanced Woodwork. Special furniture, floor lamps, table lamps, nut bowls, etc. Mahogany and other
fancy woods used. Veneering, inlaying and hand polishing. Pre-requisite, Woodwork 9.

105. **Pattern Making.** Making of practical patterns for use in the college foundry. Time and credit to be arranged with the instructor.

106. **Advanced Short Course.** For students who do not fit into the regular schedule. Prerequisite, work equivalent to that listed under Junior College Courses. Credit according to work done.

107. **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 instructor.

108. **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.
SCHOOL OF HOME ECONOMICS

CARRIE CASTLE DOZIER, Professor.
*JOHANNA MOEN, Professor.
ALICE KEWLEY, Professor.
CALVIN FLETCHER, Professor.
CHARLOTTE DANCY, Assistant Professor.
CHRISTINE B. CLAYTON, Assistant Professor.
FLORENCE WALKER, Assistant Professor.
HELEN KNOTT, Instructor.

FOODS AND DIETETICS

All students who elect Foods and Dietetics as their major are required to complete Foods 20, 105, and 140 and are urged to include Household Administration 150. Students wishing to qualify as teachers of Foods and Dietetics must complete Education 120, 121 and 122.

JUNIOR COLLEGE COURSES

5. Food Selection. A practical study of the relation of food 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 food at public eating places. The relation of food to family life and hospitality by a study of food combinations for special occasions; the duties of host and hostess; food fads and superstitions. Open to men and women. Not open to Food and Nutrition majors. Winter quarter. Two credits. M. W. 9:00.

DOZIER

20, 21, 22. Food Economics. Production, distribution and composition of foods. Preparation of foods with reference to their chemical and physical properties. Prerequisites, Chemistry

*On leave of absence.
1, 2. Fall, Winter and Spring quarters. Three credits each quarter.  
Lec. and Lab. T. Th. 2:00 to 5:00. Room 17, H. E.  

Clayton

SENIOR COLLEGE COURSES

Lec. and Lab. M. W. F. 10:00 to 1:00. Room 26 H. E.  

Clayton

140, 141, 142. Dietetics. Quantitative basis of human nutrition illustrated by a study of the energy value of foods as determined by direct and indirect calorimetry and nitrogen and mineral balances. Biological analysis of foods illustrated by problems in animal feeding. Calculation and preparation of diets to supply various needs. Prerequisites, Chemistry 21, 22 and Bacteriology 111, Foods 105. Fall, Winter and Spring quarters. Four credits each quarter.  
Lec. T. Th. 9:00. Room 26 H. E.; Lab. M. W. 2:00 to 5:00. Room 25, H. E.  

Dozier

190, 191, 192. Special Study for Advanced Undergraduates and Graduates. 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. Room 26 H. E.  

Dozier

GRADUATE COURSES


Dozier
HOUSEHOLD ADMINISTRATION

Students who elect Household Administration as their major are required to complete the following courses: Household Administration 25, 122, 123, 125, 160. Students wishing to qualify as teachers of Household Administration must complete Education 120, 121, and 122.

JUNIOR COLLEGE COURSES

10. PERSONAL ACCOUNTS. Keeping accurate record of expenditures during college year; a critical and comparative study of students' spending habits as shown by the actual accounts kept; consideration of the principles underlying wise buying. Open to all college women. Fall quarter. Two credits.
   Th. S. 11:00. Room 12, H. E.
   Spring quarter. One credit. Time to be arranged. Open only to those who have completed Fall quarter. 

   (Any college student who has received three hours credit for the above course may earn one hour credit by keeping records of one year's expenditures during college life, using for the record the form employed for class use and doing the work under supervision of the instructor in charge of Household Administration 10.)

20. HISTORY OF DOMESTIC ARCHITECTURE. History of the house from primitive times to the present. Spring quarter. Three credits. Hours to be arranged.
   (Not given in 1925-26.)

   M. W. F. 10:00. Art Room, Main.

25, 26. HOME HEALTH AND NURSING. Special emphasis on the prevention of disease and on the building up of the highest degree of health. Treatment of functional disturbances, injuries, wounds, etc., receives due attention. Lectures, discussions and laboratory demonstrations. Reading of reference works and
writing of special reports are required. Winter and Spring quarters. Three credits each quarter.
Lec. M. W. 8:00. Room 12, H. E.; Lab. F. 2:00 to 5:00. Room 11 H. E.

Dancy

SENIOR COLLEGE COURSES

Lec. M. W. F. 9:00. Room 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 during 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 each quarter.
Lec. T. Th. 12:00. Fall quarter only. Room 26 H. E.

Kewley

For closely related courses see:
ACCOUNTING 107. (Household Accounts)

Peterson

ART 122. (Home Planning and Construction.)

Fletcher

Required for a major in Household Administration.
ART 123. (Interior Decoration.)

Fletcher
Required for a major in Household Administration.

**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. Students wishing to qualify as teachers of Textiles and Clothing must complete Education 120, 121, 122.

**JUNIOR COLLEGE COURSES**

1. **Clothing for the Family.** A short unit course planned to meet the needs of special students. This course includes planning the family wardrobe; construction of garments for different ages, selection of materials and garments from the standpoints of health, beauty and economy. Three credits. Winter quarter. M. W. F. 2:00 to 5:00. H. E. Room 36. (Not given in 1925-26.)

5. **Dress Appreciation.** This course aims to furnish any student, whether or not her major interest is in the field of Textiles and Clothing, with a practical knowledge of Textiles and an appreciation of good design in dress. Clothing budgets, clothing and textiles economics, care of clothing and clothing hygiene are also considered. Two credits. Fall quarter. W. F. 11:00 H. E. Room 36.

10, 11. **Elementary Clothing and Handwork.** This course includes the fundamental principles of budgeting, drafting, design and pattern making; selection and construction of under-clothing, dresses, and household furnishings. Lectures and laboratory work. Prerequisites or parallel, Art 1, 2, 3. Three credits each quarter.

Sec. 1. Fall and Winter quarters. Lec. T. 11:00. Lab. T. Th. 2:00 to 5:00. Room 33 H. E.

Sec. 2. Fall and Winter quarters. Lec. M. 11:00. Lab. T. Th. 2:00 to 5:00. Room 36 H. E.
Sec. 3. Winter and Spring quarters. Lec. F. 11:00. Lab. T. Th. 10:00 to 1:00. Room 36 H. E.

Walker

Note: Section 3 is especially designed for those who have had no Textiles in High School.

Sec. 4. Winter and Spring quarters. Lec. F. 11:00. Lab. M. W. 2:00 to 5:00.

Walker

20, 21. ECONOMICS OF TEXTILES. A study of standard materials used for clothing and house furnishings. These materials are considered from the stand-point of design, structure, fiber content and such physical tests as will determine quality and relative value. The fibers, their production, properties and past and present method of manufacture are studied as a basis for intelligent purchase and use of materials. Prerequisites, Textiles 10. Prerequisites or parallel, Economics 1, 2, 3. Fall and Winter quarters. Three credits each quarter.

M. W. F. 9:00. Room 33 H. E.

Knott

30. MILLINERY. Designing and drafting patterns for hats; construction of frames from buckram, rice net and wire; various methods of covering foundations. Prerequisites or parallel, Art 1, 2, 3. Textiles 10, 11, 12 or their equivalents. Three credits. Room 36 H. E.

Sec. 1. Fall quarter M. W. F. 2:00 to 5:00.
Sec. 2. Spring quarter. M. W. F 2:00 to 5:00.

Walker

40, 41, 42. HANDWORK AND WEAVING. Lectures and laboratory work, including practical instruction in the selection, preparation, care and repair of table linen, bed linen, etc.; various specialized embroideries; simple weaving. Prerequisites or parallel, Art 1, 2, 3, and Textiles 10, 11, or their equivalents. Fall, Winter and Spring quarters. One credit each quarter.

Thursday 10:00 to 12:00. Room 33 H. E.

Knott
SENIOR COLLEGE COURSES

105. HISTORY OF COSTUME. A study of Egyptian, Grecian, Roman, early and modern French costumes. Fall quarter. Three credits.
   T. Th. S. 10:00. Room 330 Main.  
   
   115. COSTUME DESIGN. Design in costume, rhythm of line, harmony of color. Sketching gowns and hats; study of styles suitable to various types. Winter quarter. Three credits.
   T. Th. S. 10:00. Room 330 Main.  
   
   125. APPLIED COSTUME DESIGN. Practical training in the use and adaptation to different individuals and purposes of the designs made in Textiles 115, as well as designs taken from current fashion magazines.
   Designing is done by modeling on the dress form to give practice in actual constructive design. Spring quarter. Three credits.
   M. W. F. 10:00 to 12:00. Room 33, H. E.  
   
   160, 161, 162. CLOTHING, ADVANCED. Advanced dress design, construction of dresses, infants' and childrens' clothing, including budgets; problems in standardization of clothing. Lectures and laboratory work. Prerequisites, Textiles 10, 20, 105, 115, 125. Fall, Winter and Spring quarters. Two credits each quarter.
   T. Th. 2:00 to 5:00. Room 33 H. E.  
   
   For closely related course see:

   CHEMISTRY 109. (Chemistry of Textiles.) Students who elect Textiles and Clothing as their major are urged to take this course.
Thirty-second Annual Commencement
List of Graduates 1924-25

Graduate Division
Graduates with the Degree of
MASTER OF ARTS

Agriculture

BUTTS, CLYDE AUGUSTINE
Thesis: Relationship of Light to the Flowering and Fruiting of Strawberry Plants

CROFT, ALFRED RUSSELL
Thesis: Alkali and Water Relations of Atriplex Carnosa

FRISCHNECHT, CARL
Thesis: Intensive Study of the Genetics of Sevier and Dicklow Cross

HARRIS, KARL

WILSON, ALMA
Thesis: A Study of Onion Varieties

KNOWLTON, GEORGE FRANKLIN
Thesis: A Contribution to our Knowledge of the Aphididae of Utah

Basic Arts and Science

BIRCH, JAMES BYRON
Thesis: A Correlation of Stability and Intelligence Tests

FIFE, JAMES MILTON
Thesis: The Effect of Sulphur on the Micro-flora of the Soil

LINFORD, LEON BLOOD
Thesis: The Relation of Light to Soil Moisture Phenomena and to Water Transmission in Plants

WOODSIDE, MARGARET JEANNETTE
Thesis: The Early Political History of Cache County

BATES, GEORGE SPRAGUE
Thesis: The Possibilities of City Manager Government for Utah Communities
Undergraduate Division
Graduates with the Degree of
BACHELOR OF SCIENCE

Agriculture

Anderson, Melvis Eliason  Jeppson, Robert Baird
Anderson, Woodruff Hyrum  Jensen, Leslie O.
Arakawa, Yasuo  Kennard, John Gleason
Austin, Lloyd James  Kirk, Harvey
Bair, Amos William  Longhurst, George Leonard
Baker, Cecil  McKnight, Benjamin Stanley
Barker, Horace Lyman  Merrill, Casper Whittle
Bolingbroke, Delbert Thomas  Moosman, David Daniel
Bowen, Grant Richard  Morrill, Eugene Labin
Brummett, Wesley Bernard  Murdock, Clarence
Burgoyne, Ivan Edwin  Noble, Willard
Butts, Clyde Augustine  Quayle, James William
Campbell, Leo  Rich, Lyman Holmes
Cluff, Millard K.  Richardson, Stanley Solon
Davis, Parley Orrell  Robinson, Lamond William
Deschamps, Louis  Smith, S. Cooper
Doolas, George Zaphyrios  Stephens, John
Erickson, Alfred LeRoy  Stookey, Lincoln Alonzo
Evans, Morrill  Sumson, Spafford
Fenton, John Stanley  Teshirogi, Harry Teiji
Gardner, Bertrand Royal  Thurber, Daniel Pratt
Gospill, Howard Watson  Wall, John Edward
Green, Raymond Williams  Woodward, Rollo William
Gregory, Fred Ernest  Wright, Hyrum Pratt

Agricultural Engineering

Bullen, Herschel Keith  Norby, Joris Christen
Coray, Clarence Allred  O’Brien, Timothy
Froerer, David Lester  Ricks, Paul Cardon
House, Willis George  West, Grant Darald

Mechanic Arts

Bergstrom, Jared Emanuel  Russell, Howard Rowland
Pearson, Essie Nathan  Thompson, Ezra Cottam
Basic Arts and Science

Benson, Sergene
Budge, Oliver Wendell
Bullen, Helen
Chalmers, Chester Arthur
Clark, Ernest
Clark, Lucius
Clements, Charles Joseph
Cole, Ralph Chase
Cole, Russell Wallace
Cooley, LaVell Irvin
Cranney, Florence
Eliason, Drue Lenore
Farnsworth, Burton Kent
Finlayson, Frank Emerson
Grewal, Jaswant Singh
Hall, Claude Leroy
Halverson, Roy
Harris, Charles Waldron
Heaton, Terrence Carroll
Hirst, Lester Larsen
Graduating with honors in chemistry.

Homer, Charles Murray
Hulme, Rita

Home Economics

Baker, Edna Catherine Hatch
Childs, Florence Jane
Comish, Reata
Gardner, Marian
Goodsell, Violet
Heaton, Mona Patterson
May, Lucilla
Nelson, Rebecca Ann

Commerce and Business Administration

Adams, Joseph Charles
Bachman, Halvy Elias
Bankhead, Heber Nels
Bateman, Harold Claude
Bernston, Milton Richard
Clark, Leroy Beebe
Cowley, Samuel Parkinson
Erickson, Elgin Wilford
Farnsworth, Charles Henry
Ford, John William
Fuhriman, Walter Ulrich

Griffin, Louis Henry
Griffiths, Robert E.
Hendricks, Charles Durrell
Merrill, Milton Reese
Neilson, Preston Matt
Rich, Moses Logan
Vernon, Weston Jr.
Welch, Wilford Woodruff
White, Hobart Greenwood
Wilcox, Francis Robert
Woolley, Samuel Ray

Homer, Charles Murray
Hulme, Rita

Graduating with honors in chemistry.
Officers Reserve Corps of the Army of the United States

Second Lieutenant, Coast Artillery Corps

Bateman, Harold C.
Birch, Rex
Budge, O. Wendell
Cole, R. Wallace
Deschamps, Louis
Griffin, Louis H.
McKinnon, Freeman F.
Wilson, LeRoy V.

Certificates of Eligibility for Commissions as 2nd Lieutenant
Coast Artillery, Officers Reserve Corps, U. S. Army

Rich, Moses L.
Vernon, Weston Jr.

Honors, 1924-1925

SCHOLARSHIP: The following students have been selected as deserving special distinction for high achievement in scholarship. They have, accordingly, received either Scholarship A's or Honorable Mention.

SCHOLARSHIP A's

Milton R. Merrill
Orion Pulley
Nora P. Heaton
Lorenzo Richards
David Fuhriman
Randolph Riter

HONORABLE MENTION

Emma Green
Terrence Heaton
Vernon Stevensen
Ralph C. Cole

DEBATING AND ORATORY

Inter-Collegiate Debating

Francis R. Wilcox
Weston Vernon, Jr.
Preston M. Nielsen
Milton R. Merrill
Norman L. Christensen
Leland Skanehy
E. K. Farnsworth

The Howell Medal Awarded to:

Preston M. Nielsen
The Hendricks Medal Won by:
Milton R. Merrill

The Sons of the American Revolution Medal Won by:
Norman L. Christensen

SCHOLARSHIPS

The following students were awarded the Johansen Scholarships for 1925-26:
R. K. Bischoff
E. P. Jeppson
Letha Christensen

STUDENT OFFICERS

Student Body Officers:
Willard B. Knowles ...................................... President
Allie Peterson ............................................ Vice-President
Frances Thomas ........................................... Secretary
Malcolm Merrill .......................................... Managing Editor, "Student Life"
Bert O. Harward .......................................... Associate Editor, "Student Life"
Wendell Allred ........................................... Associate Editor, "Student Life"
Ariel Merrill ................................................ Business Manager, "Student Life"
Stanley Christensen ............................ Assistant Business Manager, "Student Life"
Stanley Richardson ............................ Editor-in-Chief, "The Buzzer"
Louis Griffin ............................................ Business Manager, "The Buzzer"

SPECIAL AWARDS

The Citizenship Award, a medal given for distinguished College Citizenship, was awarded to Willard B. Knowles.
The Lois Hayball Medal given to the best student in home economics, was awarded to Florence Childs.
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 Weston Vernon, Jr.
The William Peterson Science Medal, given to the author of the best paper on some selected scientific subject, was won by Charlotte Warner.
The Vernon Medal, given to the writer of the best short story written around a western setting, was won by Brandon Woolley.
List of Students 1924-1925

In the following list “a” stands for agriculture; “aema” for agricultural engineering and mechanic arts; “bas” 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; “F” for Freshman; “V” for Vocational; “Fed” for Federal; “Un” for unclassified.

<table>
<thead>
<tr>
<th>Name</th>
<th>Major</th>
<th>City</th>
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<tbody>
<tr>
<td>Abell, T. H.</td>
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Barrett, Eva M. bas-G-ss 
Barrett, Gladys bas-ss 
Barrett, Lawrence a-F 
Barron, George L. a-G-ss 
Barrows, Effie S. Ho-So-ss 
Barrus, Percy bas-F 
Barrus, Emery T. bas-ss 
Barrus, Luella bas-ss 
Barrus, Marion bas-So 
Barrus, Rodney bas-So 
Barrus, Zina C. bas-ss 
Barson, Peter E. a-V 
Bartlett, Herbert bas-F 
Barton, Myrtle A. bas-ss 
Barton, Sherman bas-J-ss 
Bateman, Alfred H. a-G-ss 
Bateman, Harold C. a-S 
Bates, George S. bas-ss 
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Beagley, Harry a-G-ss 
Beal, David bas-s 
Beal, Ray, C-So 
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Bean, Harold aema-V 
Bean, Edwin a-F 
Beaumont, Ellen bas-So 
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Beckstead, Ferrell a-F 
Beecraft, Raymond a-G-ss 
Beecher, Paul E. bas-J 
Beecher, Nestor W. bas-J-ss 
Bell, George H. aema-V 
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Bell, William H. c-G-ss 
Beland, Amos bas-ss 
Bennett, Aura bas-So 
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Bennion, Erma bas-G-ss 
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Bennion, Mildred bas-ss 
Bennion, Noel c-F 
Benson, Connie ho-V 
Benson, John bas-J-ss 
Benson, Lucy E. ho-v-ss 
Benson, Sergene bas-S-ss 
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Bergesen, Elmo J. aema-V 
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Bertan, Milton R. e-S 
Berritt, Golden aema-So 
Bessey, Pearl ho-F 
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Bieckmore, Leroy e-J 
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Bindrup, Mada bas-ss 
Bingham, Elda bas-ss 
Bingham, Hazel ho-ss 
Bingham, James W. bas-G-ss 
Birch, J. Byron bas-G-ss 
Birch, Rex E. bas-Un 
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Blue, Grace B. c-F-ss 
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Boyden, Ruby bas-ss 
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Frederick, Harold H.         | Logan                   | Utah       |
Frederickson, Earl A.        | Avon                    | Ohio       |
Frischknecht, Carl a-G-G    | Manti                   | Idaho      |
Froerer, David L. aema-S-Fed | Logan                   | Utah       |
Frost, James Anthony        | Ephraim                 | Wisconsin  |
Frost, Leah                 | Kanab                   | Ohio       |
Froyd, Elma                 | Cedar City              | Utah       |
Fuhriman, David H.          | Providence              | Nevada     |
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Fuller, C. Bessie           | Ogden                   | Maine      |
Fuller, Doris E.            | Eden, Utah              | Utah       |
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Fuller, Willard A-J         | Murray                  | Montana    |
Fullmer, Margaret M.        | Darlington, Idaho       | Idaho      |
Funk, Carmen                | Richmond                | California |
Funk, Gayla                 | Richmond                | California |
Furlong, Arlo               | Huntington              | California |
Gadd, Jean e-F             | Nevada                  | Nevada     |
Galbraith, Erma            | Ogden                   | Utah       |
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Gardner, A. S. aema-J       | Logan                   | Utah       |
Gardner, Bertrand a-S       | West Jordan             | Washington |
Gardner, Christabel bas-ss | Liberty                 | Missouri   |
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Swainston, Elm e a+S-G  Garfield
Swapp, Addie L. bas-Ss  Kanab
Swendsen, Hertense ho-F  Rexburg, Idaho
Swenson, Dan A. aema-G ss  Logan
Swinyard, William D. bas-So  Logan
Syme, Louise bas-So  Rock Springs, Wyoming
Taggart, Cleone bas-F  Logan
Tangren, Mrs. W. E. ho-F  Beaver
Tanner, A. E. a-G ss  Payson
Tanner, Effie M. bas-ss  Blackfoot
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Tanner, Vivian bas-F  Logan
Taylor, Ap olos B. bas-Un  Willard
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Taylor, S. Glen bas-So  Parowan
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Taylor, Thelma bas-ss  Ogden
Telford, C. W. bas-ss  Idaho Falls, Idaho
Tenney, Jack R. bas-ss  Flagstaff, Arizona
Terry, Victor L. bas-ss  Hinckley
Teshirag, Hamako ho-V  Salt Lake City
Thaynor, T. bas-ss  Logan
Thay, Aldyth bas-ss  Logan
Thay, J. Henry c-J  Logan
Thay, Margaret ho-F  Smithfield
Thay, Theodore E. bas-F  Logan
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Thornton, Lavar a-F  Aberdeen, Idaho
Thorpe, Eunice bas-ss  Providence
Thorsen, Edna ho-F  Bear River City
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Thurber, D. Pratt a-Ss  Logan
Thurmond, Lee E. a-F  West Point
Thurmond, Audrey bas-F  Eureka
Tingey, D. C. a-G ss  Brigham City
Tingey, Thelma bas-ss  Brigham City
Tingey, Y. H. bas-ss  Brigham City
Tirkey, Willis aema-F  Brigham City
Tippets, Alyce bas-ss  Logan
Tippets, J. R. bas-G ss  Morgan
Tintenore, Rescoe bas-J  Logan
Tod, Nona bas-F  Ogden
Tonn, A. Corum bas-ss  Afton, Wyoming
Toland, Estella bas-ss  Afton, Wyoming
Tolman, Austin N. bas-ss  Honeyville
Tolman, Martha bas-ss  Honeyville
Towsley, Guy V. bas-ss  McGill, Nevada
Towsley, Elizabeth M. bas-ss  McGill, Nevada
Trotman, Harold A. c bas-ss  Logan
Trussell, Brandon bas-G ss  Boyd, Texas
Tuft, Leonard c-So  Monroe
Turman, Carolyn bas-ss  Logan
Tuttle, Alene bas-ss  Spanish Fork
Tuttle, Ray L. a-C-ss  Brigham
Tyson, Gladys bas-F ss  Brigham
Valentine, Erma bas-So  Brigham
Valentine, Hyrum L. a-F  Brigham
Valentine, Ruth bas-So  Brigham
Van Ee, F. Louise bas-ss  Salt Lake City
Van Orden, Helia bas-ss  Logan
Van Orden, Leland bas-ss  Lewiston
Van Patten, M. M. bas-G ss  Buhl, Idaho
Van Wagner, Leo aema-V  Midway
Vernon, Aldyth bas-G ss  Logan
Vernon, Clinton D. bas-ss  Logan
Vess, Weston ho-G ss  Logan
Victor, R. M. bas-So  Brigham
Visick, Hubert E. bas-F  Logan
Wadsworth, Harold a-J  Logan
Wagstaff, Arthur a-J  Murray
Wagstaff, Evangeline bas-ss  Newton, N. C.
Wagstaff, Virginia bas-ss  Mt. Pleasant
Wahlen, J. T. bas-V  Hyrum
Waine, Iris bas-ss  Bunkerville, Nevada
Waldey, Dorothy bas-F  Logan
Waldrum, Thomas bas-ss  Logan
Walker, Charles bas-ss  Logan
Walker, F. Earl bas-ss  Salt Lake City
Walker, Leland c-F  Pleasant Grove
Walker,LeGrand a-F  Pleasant Grove
Walker, Mabel bas-J  Eden
Walker, R uger H. a-G ss  Pleasant Grove
Walker, Van D. bas-ss  Mendon
Walker, Verns ho-So  Layton
Walker, Wallace bas-So  Eden
Wall, John E. a-S  Logan
Wallace, Bruce bas-F  Preston, Idaho
Wallace, Henry a-V  Driggs, Idaho
Wallace, Margaret bas-ss  Logan
Wallace, Nora ho-F  Driggs, Idaho
Wallace, William Howard  Driggs, Idaho
Wallwork, Alta bas-ss  Trenton
Walther, G. J.  Halieeh, Nevada
Wanggaard, David bas-ss  Driggs, Idaho
Wanlass, W. L. c-G ss  Logan
War, Amos bas-ss  Hyrum
War, E. H. bas-ss  McGill, Nevada
War, Eunice bas-So  Malad, Idaho
War, Mary bas-ss  Malad, Idaho
Warner, Charlotte bas-So  Grace, Idaho
Warner, Vera Frances ho-G ss  Lincoln, Neb.
Winsor, Beatrice S. ................................ Logan
Winsor, Luther M. ................................ Logan
Winters, N. Blaine ................................ Garland
Wittwer, Josephine ................................ Santa Clara
Wittwer, LaVerne ................................ Logan
Wittwer, Myrtle .................................... Bunkerville, Nevada
Wittwer, S. Melvin ................................ Santa Clara
Wittwer, Vera ...................................... Bunkerville, Nevada
Wixom, Calvin a-F ................................ Logan
Wixom, Earl P. ..................................... Burley, Idaho
Wolfe, Joan E. ..................................... Logan
Wood, Cassie H. .................................... Logan
Wood, Cathryn ...................................... Logan
Wood, Delores ho-G-ss ............................ Logan
Wood, Edvin baa-s ................................ Logan
Wood, Elmer R. ..................................... Trenton
Wood, Letha ....................................... Preston
Woodard, Claire V. ................................ Cedar City
Woodward, Ruby ..................................... Cedar City
Woodhouse, Berenice ................................ Logan
Woodhouse, Gertrude ho-F ........................ Logan
Woodhouse, Kate bas-F ............................ Burley, Idaho
Woodhouse, Luella ................................ Logan
Woodhouse, Thora .................................. Oakley, Idaho
Woodruff, Angus Q. a-J .............................. Smithfield
Woodside, Howard .................................. Logan
Woodside, Jean ho-G-ss .............................. Logan
Woodside, Josephine C. ............................. Logan
Woodside, Margaret bas-G-ss ...................... Logan
Woodward, Gladys ................................ Franklin
Woodward, Marlow a-F ............................... Franklin, Idaho
Woodward, Rollo a-S ................................ Franklin, Idaho
Wolley, Bradley ..................................... Los Angeles, Calif.
Woolley, Leah........................................ Logan
Woolley, Pruda ...................................... Salt Lake City
Woolley, Ray e-S .................................... Grantsville
Wootton, David A. bas-G-ss ......................... Logan
Woolsey, Mary ...................................... Malad, Idaho
Wolley, Dorothy ..................................... Logan
Wolley, Erma ........................................ Logan
Wolley, John Clyde ................................ Logan
Wolley, Eugene ...................................... Hyrum
Wolley, Geneva Rich bas-G-ss ...................... Logan
Wright, Anona bas-F ................................. Franklin, Idaho
Wright, Golden bas-So ................................ Hinckley
Wright, Hyrum Pratt ................................ Hinckley
Wright, Joseph bas-F ................................ Hyrum
Wright, Ianthus a-So ................................ Hinckley
Wright, Othelia Peterson bas-G-ss ............... Bingham
Wyatt, R. L. a-G-ss ................................ Logan
Wyatt, Caroline A. ho-G-ss ........................ Wellsville
Wyatt, Edna bas-So ................................ Wellsville
Wyatt, Sidney L. a-ss ............................... Wellsville
Yeaman, Faye a-F .................................. Provo
Yeates, Elva ........................................ Logan
Yeates, Kenneth bas-F ............................... Logan
Yeates, Myrtle bas-So ............................... Logan
Younker, Chester a-F ................................ Logan
Younker, Christine B. bas-F ....................... Logan
Young, Gerda c-So ................................ Logan
Young, F. M. bas-G-ss ............................... Logan
Young, John A. ...................................... Cedar City
Young, Louis Y. ..................................... Swanton, China
Young, Stella ho-G-ss ................................. Brigham
Yorgean, Eva ....................................... Los Angeles, California
Zollinger, Florence ................................ Providence
Zollinger, Ruth ho-F ................................ Providence
### SUMMARY OF ATTENDANCE, 1924-25.

<table>
<thead>
<tr>
<th></th>
<th>Agriculture</th>
<th>A.E.M.A.</th>
<th>Basic Arts and Science</th>
<th>Commerce</th>
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</tr>
</thead>
<tbody>
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<td>Juniors</td>
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<td>Sophomores</td>
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</table>

Summer Quarter (1924) .................................................. 1163

Total Resident Enrollment ................................................. 2149
SUMMARY OF SUMMER QUARTER REGISTRATION

<table>
<thead>
<tr>
<th></th>
<th>Men</th>
<th>Women</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Graduates</td>
<td>198</td>
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</tr>
<tr>
<td>Undergraduates</td>
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</tr>
<tr>
<td>Correspondence Department—Men</td>
<td>235</td>
<td></td>
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<td>Women</td>
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<tr>
<td>Extension Classes—Men</td>
<td>116</td>
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</tr>
<tr>
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<td>191</td>
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<td>Women</td>
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<td>Net Total Registration</td>
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ENCAMPMENT AND SHORT COURSES

*Farmers' Encampment, Logan—Men | 823 |
| Woman | 960 | 1783 |
| Club Leader Training School—Boys | 42 |
| Girls | 47 | 89 |
| Scout Masters' School—Men | 81 |
| Net Total Registration at Encampment and Short Courses | 1953 |

*In Addition there were 1165 Children.
# Index

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting and Business Practice</td>
<td>91</td>
</tr>
<tr>
<td>Accounting, Suggested Course in</td>
<td>82</td>
</tr>
<tr>
<td>Admission</td>
<td>35</td>
</tr>
<tr>
<td>Administration, Extension Division</td>
<td>67</td>
</tr>
<tr>
<td>Advanced Degrees, Requirements for</td>
<td>47</td>
</tr>
<tr>
<td>Advanced Standing</td>
<td>36</td>
</tr>
<tr>
<td>Advertising, Courses in</td>
<td>165</td>
</tr>
<tr>
<td>Architecture, Rural</td>
<td>225</td>
</tr>
<tr>
<td>Agricultural Economics, Suggested Course in</td>
<td>80</td>
</tr>
<tr>
<td>Agricultural Economics</td>
<td>97</td>
</tr>
<tr>
<td>Agricultural Engineering, Suggested Courses in</td>
<td>81</td>
</tr>
<tr>
<td>Agricultural Engineering</td>
<td>220</td>
</tr>
<tr>
<td>Agricultural Engineering Experiment Station</td>
<td>66</td>
</tr>
<tr>
<td>Agricultural Surveying</td>
<td>220</td>
</tr>
<tr>
<td>Agronomy</td>
<td>100</td>
</tr>
<tr>
<td>Animal Husbandry</td>
<td>106</td>
</tr>
<tr>
<td>Applied Mechanics and Design</td>
<td>221</td>
</tr>
<tr>
<td>Art</td>
<td>111</td>
</tr>
<tr>
<td>Auto Mechanics</td>
<td>230</td>
</tr>
<tr>
<td>Bachelor's Degree, Requirements for</td>
<td>39</td>
</tr>
<tr>
<td>Bacteriology</td>
<td>118</td>
</tr>
<tr>
<td>Banking, Suggested Course in</td>
<td>82</td>
</tr>
<tr>
<td>Board of Trustees</td>
<td>6, 33</td>
</tr>
<tr>
<td>Botany</td>
<td>120</td>
</tr>
<tr>
<td>Boys' and Girls' Clubs, Extension</td>
<td>67</td>
</tr>
<tr>
<td>Buildings</td>
<td>59</td>
</tr>
<tr>
<td>Business Administration</td>
<td>125</td>
</tr>
<tr>
<td>Business Administration, Suggested Course in</td>
<td>82</td>
</tr>
<tr>
<td>Calendar, College</td>
<td>5</td>
</tr>
<tr>
<td>Chemistry</td>
<td>129</td>
</tr>
<tr>
<td>Class Standing</td>
<td>36</td>
</tr>
<tr>
<td>Clubs</td>
<td>51</td>
</tr>
<tr>
<td>College Council</td>
<td>34</td>
</tr>
<tr>
<td>College Proper</td>
<td>69</td>
</tr>
<tr>
<td>College Faculty</td>
<td>7, 34</td>
</tr>
<tr>
<td>Commencement, 1924-25, Thirty-second Annual</td>
<td>232</td>
</tr>
<tr>
<td>Commerce and Business Administration, Suggested Courses in</td>
<td>81</td>
</tr>
<tr>
<td>Commercial Teaching, Suggested Courses in</td>
<td>83</td>
</tr>
<tr>
<td>Committees:</td>
<td></td>
</tr>
<tr>
<td>Of the Board</td>
<td>6</td>
</tr>
<tr>
<td>Of the Faculty</td>
<td>23, 34</td>
</tr>
<tr>
<td>Community Service Bureau</td>
<td>67, 69</td>
</tr>
<tr>
<td>Correspondence-Study Department</td>
<td>67, 68</td>
</tr>
<tr>
<td>County Agents</td>
<td>67</td>
</tr>
<tr>
<td>Courses in Instruction</td>
<td>91</td>
</tr>
<tr>
<td>Topic</td>
<td>Page</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Dairy Husbandry</td>
<td>132</td>
</tr>
<tr>
<td>Dairy Manufacturing, Suggested Course in</td>
<td>84</td>
</tr>
<tr>
<td>Deans' and Directors' Council</td>
<td>34</td>
</tr>
<tr>
<td>Debating</td>
<td>50,152</td>
</tr>
<tr>
<td>Departments of Instruction</td>
<td>90</td>
</tr>
<tr>
<td>Economics</td>
<td>136</td>
</tr>
<tr>
<td>Education and Psychology</td>
<td>76,140</td>
</tr>
<tr>
<td>Education, Suggested Courses in, for Elementary Teachers</td>
<td>85</td>
</tr>
<tr>
<td>Electric Arc Welding</td>
<td>235</td>
</tr>
<tr>
<td>English</td>
<td>149</td>
</tr>
<tr>
<td>Entomology</td>
<td>154</td>
</tr>
<tr>
<td>Entrance Fees</td>
<td>54</td>
</tr>
<tr>
<td>Equipment</td>
<td>61</td>
</tr>
<tr>
<td>Expenses of Students</td>
<td>54</td>
</tr>
<tr>
<td>Experiment Station</td>
<td>64</td>
</tr>
<tr>
<td>Experiment Station Staff</td>
<td>24,35</td>
</tr>
<tr>
<td>Experimentation, Graduate Courses in</td>
<td>172</td>
</tr>
<tr>
<td>Extension Division</td>
<td>67</td>
</tr>
<tr>
<td>Extension Division Staff</td>
<td>26</td>
</tr>
<tr>
<td>Extension Departments</td>
<td>70</td>
</tr>
<tr>
<td>Extension Methods, Graduate Courses in</td>
<td>173</td>
</tr>
<tr>
<td>Faculty, College</td>
<td>7,34</td>
</tr>
<tr>
<td>Farm Management</td>
<td>97</td>
</tr>
<tr>
<td>Farm Mechanics</td>
<td>231</td>
</tr>
<tr>
<td>Fathers' and Mothers' Day</td>
<td>35</td>
</tr>
<tr>
<td>Fees, Entrance</td>
<td>54</td>
</tr>
<tr>
<td>Foods and Dietetics</td>
<td>245</td>
</tr>
<tr>
<td>Forestry</td>
<td>205</td>
</tr>
<tr>
<td>Forging and General Blacksmithing</td>
<td>236</td>
</tr>
<tr>
<td>French</td>
<td>186</td>
</tr>
<tr>
<td>Geology</td>
<td>157</td>
</tr>
<tr>
<td>German</td>
<td>186</td>
</tr>
<tr>
<td>Government of the College</td>
<td>33</td>
</tr>
<tr>
<td>Graduates, 1924</td>
<td>252</td>
</tr>
<tr>
<td>Graduation</td>
<td>39</td>
</tr>
<tr>
<td>Graduation at Close of Summer Quarter</td>
<td>41</td>
</tr>
<tr>
<td>Graduation with honors</td>
<td>41</td>
</tr>
<tr>
<td>Highway Engineering</td>
<td>223</td>
</tr>
<tr>
<td>History</td>
<td>160</td>
</tr>
<tr>
<td>History of the College</td>
<td>30</td>
</tr>
<tr>
<td>Holidays, See College Calendar</td>
<td>5</td>
</tr>
<tr>
<td>Home Economics, Suggested Course in</td>
<td>85</td>
</tr>
<tr>
<td>Home Demonstration, Extension</td>
<td>67</td>
</tr>
<tr>
<td>Honors, 1924-25</td>
<td>255</td>
</tr>
<tr>
<td>Horticulture</td>
<td>162</td>
</tr>
<tr>
<td>Horticulture, Suggested Course in</td>
<td>86</td>
</tr>
<tr>
<td>House-Building</td>
<td>242</td>
</tr>
<tr>
<td>Household Administration</td>
<td>247</td>
</tr>
<tr>
<td>Topic</td>
<td>Page</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Hygiene</td>
<td>200</td>
</tr>
<tr>
<td>Ignition, Starting and Lighting</td>
<td>232</td>
</tr>
<tr>
<td>Irrigation and Drainage</td>
<td>227</td>
</tr>
<tr>
<td>Junior Rank, Requirements for</td>
<td>38</td>
</tr>
<tr>
<td>Junior College</td>
<td>37</td>
</tr>
<tr>
<td>Junior Class Standing</td>
<td>36</td>
</tr>
<tr>
<td>Laboratories, See Equipment</td>
<td></td>
</tr>
<tr>
<td>Latin</td>
<td>187</td>
</tr>
<tr>
<td>Library Economy</td>
<td>165</td>
</tr>
<tr>
<td>List of Students, 1923-24</td>
<td>257</td>
</tr>
<tr>
<td>Location of the College</td>
<td>29</td>
</tr>
<tr>
<td>Machine Work</td>
<td>239</td>
</tr>
<tr>
<td>Marketing</td>
<td>165</td>
</tr>
<tr>
<td>Marketing, Suggested Course in</td>
<td>83</td>
</tr>
<tr>
<td>Master's Degree, Requirements for</td>
<td>47</td>
</tr>
<tr>
<td>Mathematics</td>
<td>170</td>
</tr>
<tr>
<td>Mechanical Drawing</td>
<td>240</td>
</tr>
<tr>
<td>Mechanic Arts</td>
<td>229, 237</td>
</tr>
<tr>
<td>Methods in Experimentation and Extension</td>
<td>172, 173</td>
</tr>
<tr>
<td>Military Science and Tactics</td>
<td>174</td>
</tr>
<tr>
<td>Modern Languages and Latin</td>
<td>186</td>
</tr>
<tr>
<td>Music</td>
<td>189</td>
</tr>
<tr>
<td>Organization of the College</td>
<td>48</td>
</tr>
<tr>
<td>Organization of the College Proper</td>
<td>69</td>
</tr>
<tr>
<td>Office Management</td>
<td>96</td>
</tr>
<tr>
<td>Officers of the Board</td>
<td>6</td>
</tr>
<tr>
<td>Officers of Administration and Instruction</td>
<td>7</td>
</tr>
<tr>
<td>Oxy-Acetylene Welding</td>
<td>235</td>
</tr>
<tr>
<td>Physical Education</td>
<td>191</td>
</tr>
<tr>
<td>For Men</td>
<td>192</td>
</tr>
<tr>
<td>For Women</td>
<td>193</td>
</tr>
<tr>
<td>Physical Education, Professional Courses in</td>
<td>194</td>
</tr>
<tr>
<td>Physical Education, Suggested Courses in for Women</td>
<td>87</td>
</tr>
<tr>
<td>Physics</td>
<td>197</td>
</tr>
<tr>
<td>Physiology and Hygiene</td>
<td>200</td>
</tr>
<tr>
<td>Physiological Chemistry</td>
<td>118</td>
</tr>
<tr>
<td>Policy of the College</td>
<td>30</td>
</tr>
<tr>
<td>Political Science</td>
<td>202</td>
</tr>
<tr>
<td>Poultry Husbandry</td>
<td>109</td>
</tr>
<tr>
<td>Psychology</td>
<td>140</td>
</tr>
<tr>
<td>Public Health</td>
<td>208</td>
</tr>
<tr>
<td>Public Speaking</td>
<td>149</td>
</tr>
<tr>
<td>Quarter Hours</td>
<td>37</td>
</tr>
<tr>
<td>Range Management and Forestry</td>
<td>205</td>
</tr>
<tr>
<td>Recitation Table</td>
<td>90</td>
</tr>
<tr>
<td>Registration</td>
<td>37</td>
</tr>
<tr>
<td>Required Work for Graduation</td>
<td>39</td>
</tr>
<tr>
<td>Resistance Welding</td>
<td>235</td>
</tr>
</tbody>
</table>
YEAR-ROUND SERVICE

By offering four quarters of twelve weeks each, the Utah Agricultural College renders year-round service to Utah and the West. Students may enter at the beginning of any quarter and find new courses starting. It is best to begin with the Fall Quarter and continue until the close of school in the Spring. The Summer Quarter is now an integral part of the school year. It offers exceptional opportunities to those who desire to accumulate extra credits and thus hasten graduation.

The opening dates for the 1925-26 year are as follows:

Fall Quarter opens September 28.
Winter Quarter opens January 4.
Spring Quarter opens March 22.
Summer Quarter opens June 14.
An illustrated, descriptive circular dealing with the work of the various schools—Agriculture, Agricultural Engineering, Home Economics, Commerce, Mechanic Arts, Basic Arts and Science, and Summer School—and with Student Activities is published. This is sent free upon request. Address the President’s Office.