1915

General Catalogue 1915

Utah State University

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CATALOG
OF THE
AGRICULTURAL COLLEGE
OF UTAH
FOR
1915-1916

ENTERED AS SECOND CLASS MATTER, JULY 8, 1901
AT THE POST OFFICE, LOGAN, UTAH
UNDER THE ACT OF JULY 16, 1894
### Vocational Distribution of Alumni
(Class of 1914 not included)

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<th>Field</th>
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<td><strong>Total</strong></td>
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MAIN BUILDINGS

Seen from a Distance.
CATALOG
OF THE
AGRICULTURAL COLLEGE
OF UTAH

1915-1916
TWENTY-SIXTH YEAR

With List of Students for 1914-1915

LOGAN, UTAH

Published by the College
July, 1915
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College Calendar, 1915-1916

FIRST TERM

1915

September 21, Tuesday  Entrance examinations. Registration of former students, and of new students admitted on certificates.

September 22, Wednesday  Classes organized.

November 15, Monday  Agricultural Club Ball.

November 25, to 30  Thanksgiving Recess. School on Monday, 22.

December 1, Wednesday  Oratorical contest for the medal given by The Sons of the American Revolution.

December 6, Monday  Commercial Club Ball.

December 18, Saturday  Christmas recess begins.

January 4, Tuesday  Work resumed.

January 10, Monday  Alumni Ball.

January 24, to February 5  Exhibition of Arts and Crafts by Utah Artists.

January 29, Saturday  First term ends.

January 31, Monday  College Play.

SECOND TERM

1916

February 1, Tuesday  Second term begins.

February 12, Saturday  Lincoln's Birthday.

February 18, Wednesday  Oratorical Contest for the Hendricks medal.

February 22, Tuesday  Washington's Birthday.

February 21, Monday  Military Ball.

April 3, Monday  Junior Promenade.

April 6 to 11  Spring Vacation.

April 15, Saturday  Arbor Day.

April 19, Wednesday  "A" Day.

May 15, Monday  May Festival.

May 17, Wednesday  Senior Chapel.

May 24, Wednesday  Conferring of scholarship and other honors.

June 4, Sunday  Baccalaureate Sermon.

June 5, Monday  Summer School begins.

June 5, Monday  Class Day.

June 6, Tuesday  Commencement and Alumni Ball.

ANNUAL FARMERS' ROUND-UP

U. A. C., LOGAN
Monday, January 24, to Saturday, February 5, 1916
AT MONROE

Monday, January 10, to Saturday, January 22, 1916
AT CEDAR CITY

Monday, February 7, to Saturday, February 19, 1916
Board of Trustees

LORENZO N. STOHL ............................................. Salt Lake City
THOMAS SMART .................................................. Logan
JOHN Q. ADAMS .................................................. Logan
ELIZABETH C. McCUNE ........................................... Salt Lake City
J. W. N. WHITECOTTON ......................................... Salt Lake City
JOHN DERN ........................................................ Provo
JOHN C. SHARP .................................................... Salt Lake City
ANGUS T. WRIGHT ................................................. Salt Lake City
J. M. PETERSON .................................................... Ogden
HAZEL L. DUNFORD .............................................. Logan
GEORGE T. ODELL ................................................ Richfield
JOSEPH QUINNEY, JR. .......................................... Logan

DAVID MATTSON, Secretary of State, Ex-officio ............................. Salt Lake City

OFFICERS OF THE BOARD OF TRUSTEES

LORENZO N. STOHL ............................................. President
ELIZABETH C. McCUNE ........................................... Vice-President
JOHN L. COBURN ................................................... Secretary
HYRUM E. CROCKETT ............................................ Treasurer

STANDING COMMITTEES OF THE BOARD OF TRUSTEES

Executive Committee  
Lorenzo N. Stohl, Elizabeth C. McCune, Thomas Smart  
Chair: John Q. Adams

Committee on Agriculture  

Committee on Mechanic Arts  
George T. Odell, Thomas Smart, J. M. Peterson.

Committee on Agricultural Engineering  
Elizabeth C. McCune, John Dern, Hazel L. Dunford

Committee on Home Economics  
George T. Odell, Thomas Smart, J. M. Peterson.

Committee on Commerce  
Angus T. Wright, J. W. N. Whitecotton, Elizabeth C. McCune.

Committee on Experiment Station  
Joseph Quinney, Jr., John Q. Adams, J. M. Peterson.

Committee on Faculty and Courses of Study  
J. W. N. Whitecotton, Hazel L. Dunford, Elizabeth C. McCune.

Committee on Livestock  
John C. Sharp, Thomas Smart, Joseph Quinney, Jr.

Committee on Extension Work  
Hazel L. Dunford, John Q. Adams, George T. Odell.

Committee on Buildings and Grounds  
Thomas Smart, John Q. Adams, John Dern, Joseph Quinney, Jr.

Committee on Branch at Cedar City  
J. M. Peterson, Joseph Quinney, Jr., Hazel L. Dunford.

Committee on Legislation and Finance  
David Mattson, John Dern, John C. Sharp, George T. Odell.

Auditor  
J. W. N. Whitecotton.
Officers of Administration and Instruction*

The College Faculty
(Arranged in Groups in the Order of Seniority of Appointment)

JOHN ANDREAS WIDTSOE, A.M., Ph.D., LL.D.
PRESIDENT

ELMER DARWIN BALL, M.Sc., Ph.D.
DIRECTOR, EXPERIMENT STATION AND DIRECTOR, SCHOOL OF AGRICULTURE

GEORGE WASHINGTON THATCHER, B.S.
Professor of Music

GEORGE THOMAS, A.M., Ph.D.
DIRECTOR, SCHOOL OF COMMERCE; REGISTRAR
Professor of Economics

WILLIAM PETERSON, B.S.
Professor of Geology

HYRUM JOHN FREDERICK, D.V.M.
Professor of Veterinary Science

FRANK RUSSELL ARNOLD, A.M.
Professor of Modern Languages

JAMES CHRISTIAN HOGENSON, M.S.A.
STATE LEADER, JUNIOR VOCATIONAL EXTENSION

JOHN THOMAS CAINE, B.S.
AUDITOR

EDWARD GAIGE TITUS, M.S., Sc.D.
Professor of Zoology and Entomology

JOHN THOMAS CAINE III, M.S.A.
ASSISTANT DIRECTOR, EXTENSION DIVISION
Professor of Animal Husbandry

*The College Council consists of the President, the Registrar, (ex-officio), all members of the Faculty of the rank of Professor, Associate Professor, or Assistant Professor.
FRANKLIN LORENZO WEST, Ph.D.
DIRECTOR, SCHOOL OF GENERAL SCIENCE
Professor of Physics

CLAYTON TRYON TEETZEL, LL.B.
Professor of Physical Education

ELMER GEORGE PETERSON, A.M., Ph.D.
DIRECTOR, EXTENSION DIVISION

FRANKLIN STEWART HARRIS, Ph.D.
DIRECTOR, SCHOOL OF AGRICULTURAL ENGINEERING
Professor of Agronomy

BLANCHE COOPER, B.S.
Professor of Home Construction and Sanitation

JOSEPH EAMES GREAVES, M.S., Ph.D.
Professor of Bacteriology and Physiological Chemistry

CALVIN FLETCHER, B.Pd.
Professor of Applied Art

RAY BENEDICT WEST, C.E.
Professor of Agricultural Engineering

ROBERT JAMES EVANS, Ph.D.
State Leader in Farm Management, Extension Work

GEORGE RICHARD HILL, Ph.D.
Professor of Botany

JAMES HENRY LINFORD, D.Did.
DIRECTOR OF SUMMER SCHOOL
Superintendent, Correspondence-Study Department

ARTHUR HERBERT SAXER, M.S., Ph.D.
Professor of Mathematics

N. ALVIN PEDERSEN, A.M.
Professor of English

WILLIAM ERNEST CARROLL, M.S., Ph.D.
Professor of Animal Husbandry

CHARLES WALTER PORTER, A.M., Ph.D.
DIRECTOR, SCHOOL OF HOME ECONOMICS
Professor of Chemistry
AGRICULTURAL COLLEGE OF UTAH

GEORGE B. HENDRICKS, A.M.
Professor of Finance and Banking

PARLEY ERASTUS PETERSON, A.B., C.P.A.
Professor of Accounting

FRANKLIN D. DAINES, A.M.
Professor of History

EUGENE SANTSCHI, Jr., B.S., First Lieutenant, U.S.A.
Professor of Military Science and Tactics

ELEANOR WILKINSON
Professor of Home Economics

JONATHAN SOCKWELL POWELL
Professor of Fine Art

RHODA BOWEN COOK, B.S.*
Professor of Domestic Art

ELIZABETH CHURCH SMITH, B.L.
LIBRARIAN

GERTRUDE M. McCHEYNE, B.S.
Professor of Home Economics, Extension Division

Professor of Horticulture

AUGUST J. HANSEN, B.S.
Assistant Professor of Mechanic Arts

JOHN LEATHAM COBURN
SECRETARY OF THE COLLEGE AND PURCHASING AGENT

BYRON ALDER, B.S.
Assistant Professor of Poultry Husbandry

EDWARD PARLEY PULLEY, B.S.
Assistant Professor of Forging

AARON NEWEY, B.S.
Assistant Professor of Forging

*On leave
MARY ELIZABETH JOHNSON, A.B.
Assistant Professor of Physical Education for Women

LeGRANDE HUMPHERYS, B.S.
Assistant Professor of Farm Machinery

GEORGE BALLIF CAINE, A.M.
Assistant Professor of Animal Husbandry

AGNES SAUNDERS, A.B., M.Pd.
Assistant Professor of Foods and Dietetics

VINCENT HOLLAND OGBURN, Ph.B., A.M.
Assistant Professor of English

CARL LUDVIG ANDERSON, A.B.
Assistant Leader, Junior Vocational Extension

CHARLES TARRY HIRST, M.S.
Assistant Professor of Chemistry

WILLIAM SPICKER
Assistant Professor of Orchestra

LUTHER M. WINSOR, B.S.
Assistant Professor of Irrigation, Extension Division

LORIN A. MERRILL, B.S.
Assistant Professor of Farm Management, Extension Division

BEN ROBERTSON ELDREDGE, B.S.
Assistant Professor of Dairying, Extension Division

JAMES W. PAXMAN
Assistant Professor of Dry-Farming, Extension Division

..............................
Assistant Professor of Chemistry

SARA HUNTSMAN, B.S.
Instructor in English

CHARLOTTE KYLE, A.M.
Instructor in English
DAVID EARLE ROBINSON, B.S.*  
*On leave

Instructor in History

ALBERT CALVIN CARRINGTON  
PRESIDENT'S SECRETARY

Instructor, Junior Vocational Extension

JOSEPH DEVONALD HOWELL  
Instructor in Stenography and Typewriting

JOSEPH PRESTON WELCH, B.S.  
Instructor in Farm Management, Extension Division

ARCHIE DUNCAN EGBERT, D.V.M., B.S.  
Instructor in Poultry Husbandry

HOWARD JOHN MAUGHAN, B.S.  
Instructor in Agronomy

BERT LORIN RICHARDS, B.S.  
Instructor in Botany

GEORGE STEWART, B.S.  
Instructor in Agronomy

ROBERT HASLAM STEWART, B.S.  
Instructor in Farm Management, Extension Division

LESLIE ALBERT SMITH, B.S.  
Instructor in Bacteriology

ELIZABETH UNDERWOOD  
Instructor in Piano

WALTER E. BROOKE, Ph.B.  
Instructor in Economics

GUY BECKER ALEXANDER  
Instructor in Band

HAROLD RAYMOND HAGAN, B.S.  
Instructor in Entomology
ALANDO BAUERMAN BALLANTYNE, B.S.
Instructor in Farm Management, Extension Division

HEBER J. WEBB, B.S.
Instructor in Farm Management, Extension Division

CLAIRE FORD PARRISH, B.S.
Instructor, Junior Vocational Extension

MARTIN L. HARRIS, B.S.
Instructor in Farm Management, Extension Division

CHARLES JAMES SORENSON, B.S.
Instructor in Zoology

WILBER EVANS THAIN, B.S.
Instructor in Accounting

HANS A. CHRISTENSEN, B.S.
Instructor in Farm Management, Extension Division

SAMUEL E. CLARK
Instructor in Harmony

EDGAR BROSSARD, B.S.
Instructor in Farm Management, Extension Division

HETTIE WHITE, B.S.
Instructor in Home Economics, Extension Division

WILLIAM EMMETT GOODSPEED, B.S.
Instructor in Horticulture

OTHELIA PETERSON, B.S.
Instructor in Domestic Art

LAVINIA RICHARDSON, B.S.
Instructor in Domestic Art

AARON F. BRACKEN, B.S.
Foreman, Nephi Sub-Station

DANIEL HINDLEY McALLISTER, B.S.
Instructor in Mathematics
MILDRED DANIELS  
*Assistant in Dressmaking*

NEWBURN J. BUTT, B.S.  
*Fellow in Agronomy*

ALMA LAROY WILSON  
*Fellow in Botany*

BERNARD NICHOLS  
*Fellow in Botany*

HATTIE SMITH  
*Instructor in Library Work*

SANFORD LEROY BINGHAM  
*Instructor in Dairying*

DAN ARTHUR SWENSON, B.S.  
*Assistant in Woodwork*

ASAEEL HENRY FISHER  
*Assistant in Forging*

VIOLET GREENHALGH, B.S.  
*Clerk, Experiment Station*

ABBIE GROESBECK  
*Registrar’s Clerk*

IDA MITCHELL  
*Secretary, Extension Division*

CHARLES BATT  
*Superintendent of Water, Heat, Sewerage and Lighting Plants*

RASMUS OLUF LARSEN  
*Superintendent of Buildings*

EMIL HANSEN  
*Superintendent of Grounds and Greenhouses*
Experiment Station Staff

J. A. WIDTSOE, Ph. D. Ll. D.
President

E. D. BALL, Ph. D.
Director

Wm. PETERSON, B. S.
Consulting Geologist

H. J. FREDERICK, D. V. M.
Veterinarian

E. G. TITUS, Sc. D.
Entomologist

F. S. HARRIS, Ph. D.
Agronomist

F. L. WEST, Ph. D.
Meteorologist

W. E. CARROLL, Ph. D.
Animal Husbandman

J. E. GREAVES, Ph. D.
Bacteriologist and Acting Chemist

BYRON ALDER, B. S.
Poultryman

G. R. HILL, Ph. D.
Plant Pathologist

Horticulturist

C. T. HIRST, M. S.
Assistant Chemist
H. R. HAGAN, B. S.
Assistant Entomologist

J. W. JONES, B. S.
Superintendent, Nephi Farm

ARCHIE EGBERT, D. V. M., B. S.
Assistant Poultryman

H. J. MAUGHAN, B. S.
Assistant Agronomist

W. E. GOODSPREAD, B. S.
Assistant Horticulturist

LESLIE A. SMITH, B. S.
Assistant Bacteriologist

B. L. RICHARDS, B. S.
Assistant Plant Pathologist

AARON F. BRACKEN, B. S.
Foreman, Nephi Farm

N. I. BUTT, B. S.
Assistant Agronomist

VIOLET M. GREENHALGH, B. S.
Clerk
Extension Division Staff

John A. Widtsoe, A.M., Ph.D., LL.D. ........ President of the College  
E. G. Peterson, A.M, Ph.D. ........................ Director  
Ida R. Mitchell .......................... Clerk  
Flin Jonson .......................... Stenographer

FARM MANAGEMENT

SPECIALISTS

John T. Caine III, M.S.A. (In Charge) ........ Animal Husbandry  
L. M. Winsor, B.S. ................... Irrigation and Drainage  
Ben R. Eldredge, B.S.A .......................... Dairying  
J. W. Paxman .......................... Dry-Farming

COUNTY AGENTS

R. J. Evans, Ph.D. ............................ State Leader  
Lorin A. Merrill, B.S. .................. Sevier County  
J. P. Welch, B.S. ........................ Millard County  
R. H. Stewart, B.S. .................. Carbon and Emery Counties  
M. L. Harris, B.S. ........................ Uinta Basin  
H. J. Webb, B.S. ........................ Salt Lake County  
H. A. Christiansen, B.S. ............ Beaver County  
A. B. Ballantyne, B.S. ................... Utah County  
........................................ Iron County  
........................................ Washington County

HOME MANAGEMENT

Gertrude M. McCheyne, B.S. (In Charge) ......... Home Economics  
Blanche Cooper, B.S. ..................... Home Demonstrator, Northern Utah  
Hettie White, B.S. ........................ Home Demonstrator, Southern Utah

JUNIOR VOCATIONAL EXTENSION

J. C. Hogenson, M.S.A. (In Charge) .............. State Leader  
Carl L. Anderson, B.A. ..................... High School Clubs  
Claire Parrish, B.S. ................... Girls’ Clubs  
A. C. Carrington ........................ Assistant

CORRESPONDENCE EXTENSION

J. H. Linford, D.Did. (In Charge) ........................

BOARD OF CHAIRMEN

W. S. Hansen ............................... Collinston, Box Elder County  
S. O. White ............................... Beaver, Beaver County  
C. R. Marcussen ......................... Price, Carbon County  
H. H. Blood ............................... Kaysville, Davis County  
Lars P. Oveson .......................... Castledale, Emery County  
James Houston ............................ Panguitch, Garfield County  
........................................ Grand County  
L. N. Marsden ........................ Parowan, Iron County  
A. H. Belliston ............................ Nephi, Juab County  
Wm. Seegmiller ........................... Kanab, Kane County
Standing Committees
1915-1916

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

1. **Practical Courses.**—Professors Wm. Peterson, P. E. Peterson, Saunders, Wilkinson.


3. **College Publications.**—Professors N. A. Pedersen, Arnold, Daines, Ogburn, Miss Huntsman, Miss Kyle.

4. **Attendance and Scholarship.**—Professors Thomas, Titus, Linford, Santschi, Mr. Brooke.

5. **Student Affairs.**—Professors Frederick, Greaves, Fletcher, Powell, Dr. Linford, Miss Smith, Miss Kyle, Mr. Stewart.

6. **Athletics.**—Professors F. L. West, Wm. Peterson, Carroll, Santschi, Mr. Coburn.

7. **Publicity.**—Professors Hill, Saunders, Alder, Mr. Anderson, Miss Huntsman, Mr. Richards, Mr. Hagan.

8. **Exhibits.**—Professors R. B. West, Fletcher, Hansen, Cook, Alder, Pulley, Mr. Brooke, Vice Chairman.

9. **Debating.**—Professors Hendricks, Thomas, Titus, Pedersen, Daines, Ogburn.

10. **Entrance Examinations.**—Professors P. E. Peterson, Teetzel, Humphreys.

11. **Student Employment.**—Professors George B. Caine, Greaves, Saxer, Powell, Humphreys, Newey, Johnson.

12. **Student Body Organization.**—Professors Thomas, Titus, Carroll.

13. **Graduate Employment.**—Mr. Carrington, Professors Ball, Thomas, Harris, F. L. West, Porter.

14. **Editor of the Catalog.**—Professor N. A. Pedersen.

15. **Lyceum Course.**—Professors Thomas, Thatcher, Arnold, Pedersen, Hansen, Mr. Coburn.

---

John Reeve
Daniel Heiner
J. E. Peterson
G. D. Robinson
R. D. Young
L. R. Anderson
L. H. Redd
Moses W. Taylor
C. Alvin Orme
Don B. Colton
E. W. Southwick
Benjamin Argyle
E. H. Snow
J. R. Murdock
John Halls
Joseph Eckersley
Hinckley, Millard County
Morgan, Morgan County
Circleville, Piute County
Laketown, Rich County
Richfield, Sevier County
Manti, Sanpete County
Grayson, San Juan County
Coalville, Summit County
Tooele, Tooele County
Spanish Fork, South Utah County
St. George, Washington County
Heber, Wasatch County
Huntsville, Weber County
Loa, Wayne County
The Branch of the Agricultural College of Utah
at Cedar City

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PRESIDENT

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Instructor in Iron Work and Mathematics

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Instructor in Physics, Chemistry and Mathematics

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Instructor in Music

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Instructor in Agronomy and Horticulture and Superintendent of Farms

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Instructor in Commerce and English

GEORGE H. LUNT, A.B.
Instructor in Mathematics, History and Economics

JOHN S. CHRISTENSEN, B.S.
Instructor in Physical Education

PRESTON THOMAS, B.S.
Instructor in Animal Husbandry

ROZINA SKIDMORE, B.S.
Instructor in Domestic Arts

ALMEDA PERRY, A.M.
Instructor in Domestic Science

JOSEPH McALLISTER
Instructor in Music

CAROLINE PARRY
Instructor in Art and Librarian
MAIN BUILDING
A VIEW OF COLLEGE RESIDENCES, BARNS, POULTRY PLANT, AND STOCK-JUDGING PAVILION
LOCATION

The Agricultural College of Utah is in Logan, the county seat of Cache county, one of the most prosperous agricultural counties in the State. The city has a population, thrifty and progressive, of about 8,000; it is free from vice, quiet, orderly, clean, and generally attractive, with neat homes, substantial public-buildings, electric lights, a sewer, and a water system. Cement walks ramify the city; an excellent street-car line extends from the station to the College, and connects Logan with the other towns of the county.

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 beauty of the location is perhaps unsurpassed by that of any other college. 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 distinctively visible thru the clear atmosphere. The valley is a fertile, slightly uneven plain, 4,500 feet above sea level, about twelve by sixty miles in dimensions, almost entirely under cultivation and completely surrounded by the Wasatch mountains. It is one of the most attractive and healthful valleys in the West.

POLICY

The Agricultural College of Utah provides, in accordance with the spirit of the law under which it was organized, a liberal, thoro, 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. While the importance of practical training is emphasized, the disciplinary value of education is kept constantly in view. The object is to inculcate habits of industry and thrift, of accuracy and reliability, and 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, therefore, 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 crop or live stock which in Utah may be made most profitable; that in mechanic arts, points out the most promising trades and teaches them so as to meet the needs of the State; that in commerce studies 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; that in home economics, house-keeping, teaches the women right living, and economic independence from the point of view of prevailing Utah conditions.

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

**HISTORY**

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

Under the Hatch Act, approved in 1887, the State receives $15,000 annually for the Experiment Station. Under the Adams Act of 1906, the State receives an additional $15,000 annually for research work by the Experiment Station. Under the Morrill Act of 1890, amended by the Nelson Act of 1907, the State receives $50,000 annually for instruction at the Agricultural College. Under the Lever Act, the State receives, in 1915-16, about $13,000 which will increase for six years, for agricultural extension work to be done by the Agricultural College.

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 $25,000 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 all the buildings described in a later section, besides providing largely for instruction, experimentation, and extension work.

By a recent legislative action, the College receives annually 28.34 per cent. of 28 per cent. of the total tax revenue of the State, after deducting the revenue from 3.5 mills of the total State valuation, set aside for the support of the elementary and the high schools. The State, moreover, provides $10,000 annually for extension purposes, $15,000 for experimental work, and an increasing fund for farm and home demonstrations.

In September, 1890, the institution was first 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; several special, practical, year and winter courses in 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 Agriculture, the School of Home Economics, the School of Mechanic Arts, the School of Commerce, and the School of General Science, and in 1911 the School of Agricultural Engineering. The high school department of the College has been gradually eliminated. In 1915-1916 no high school work will be given, except as provided for in the short practical courses discussed on page 54.

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

GOVERNMENT

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

The Board of Trustees consists of thirteen members. Twelve are appointed by the Governor with the approval of the State Senate; the thirteenth is the Secretary of State who is ex officio a member. This Board assumes the legal responsibility of the institution, cares for its general interests, and directs its course by the enactment of all necessary by-laws and regulations. Vested in it is the power to establish professorships, to employ the instructing force and other officers of the College, and to formulate the general policy of the institution.
Between sessions, the power of the trustees rests with an executive committee, whose actions are referred to the Board for approval. In addition, there are committees, largely advisory, that deal with the general interests of the College.

The Directors' Council consists of the President, the Directors of the various schools,—Agriculture, Home Economics, Agricultural Engineering, Commerce, Mechanic Arts, General Science, and Summer School—the Director of the Experiment Station, and the Director of the Extension Division. This body has immediate supervision of the 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, the registrar, the professors, the associate professors, the assistant professors, and the librarian. All important questions of discipline and policy are decided by this body.

The College Faculty includes the President, the professors, the associate professors, the assistant professors, the librarian, the instructors, and the assistants. As an administrative body it is concerned with the ordinary questions of methods and discipline and with various other matters pertaining to the general welfare of the College. Thru its standing committees it is in intimate contact with the student body and with the life and interests of the college community.

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 these things 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 chiefs, 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, thru 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 the 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.

ADMISSION AND GRADUATION

Admission. Entrance to the freshman class is based upon a certificate of graduation from an accredited high school; or the presenting of sixteen approved units of high school work, one of which may be for vocational experience acceptable to the institution; or, in case of students of special training not obtained in high school, upon examination. Mature persons may, at the discretion of the College Council, be ranked as freshmen without examination.

Certificates or credits should be mailed to the registrar by Sept. 1.

If the applicant’s high school studies lack range, he must secure, before graduation from the college, the following high school units, in addition to seven elective units:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3 units</td>
</tr>
<tr>
<td>History</td>
<td>1 unit</td>
</tr>
<tr>
<td>Mathematics</td>
<td>2 units</td>
</tr>
<tr>
<td>Science</td>
<td>3 units</td>
</tr>
</tbody>
</table>

| Total         | 9 units     |

A unit is equivalent to five hours’ work a week for one year.
Candidates for admission to advanced standing are required to pass satisfactory examination in all the work of the preceding years, or to present satisfactory evidence that the work offered for admission is equivalent to the work for which they wish to substitute it.

Admission to the Practical Courses. Persons eighteen years or over, and those under eighteen who have had two years of high school, are admitted without examination to the practical courses. See page 54.

Special Students. Persons of mature years who desire special study, are admitted as special students, provided they give evidence of ability to do the work desired. Special students may be graduated from any of the courses, whenever they complete the required work.

Registration. All students must report for registration not later than Monday night, Sept. 27, or be fined $2.50. Changes in registration, after the first three weeks, and credit for work for which the student is not registered are allowed only by special permission and upon payment of a fee.

All students are classified as freshmen, sophomores, juniors, seniors, or special students, in any of the courses leading to a degree.

Graduation. The degree of Bachelor of Science, in Agriculture, Home Economics, Agricultural Engineering, Commerce, Mechanic Arts, or General Science is conferred upon those who complete the regular four-year course in any of those schools. To obtain a degree from 1914 to 1917, a student must have presented eleven units of high-school work and accomplished 140 semester hours of college work. After 1917 he must show sixteen high-school units and 120 college hours if he wishes a degree in any course. (See Schedule of required work for graduation page 50.)

Besides this the student must have been in attendance at least
one school year preceding the conferring of the degree. He must have no grade lower than D in any subject used for graduation. Four-fifths of his term grades must be C or better. He must have discharged all College fees. He must be recommended for graduation by his school faculty and receive the favorable vote of two-thirds of the members of the College Council.

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

II. Instruction on the College campus,—the College Proper
   2. The School of Agriculture
   3. The School of Home Economics
   4. The School of Agricultural Engineering and Mechanic Arts
   5. The School of Commerce
   6. The School of General Science
   7. The Summer School

III. Instruction beyond the College campus
   8. The Extension Division

The instructional and investigational force and equipment necessary to carry out the work of the above divisions, are organ-
ized 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 thirty-two departments as named on page 65.

THE STUDENT BODY ORGANIZATION AND STUDENT CLUBS

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., $5 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, and track events. The Agricultural College is a member of the Colorado Conference, a fact which insures an interesting athletic program.

2. Musicals, including all public performances of the Band, the Orchestra, Glee Club, Choir, String Quartette, and Mandolin and Guitar Club. During recent years the following operas have been presented: Babette, Marriage by Lantern Light, The Geisha, When Johnny Comes Marching Home, The Mikado.

3. Theatricals. Once or twice each season some dramatic performance is given. In the past, As You Like It, A Midsummer Night's Dream, She Stoops to Conquer, The Climbers, The Rivals, Milestones, and several other productions, have been presented.

4. Debating and Public Speaking. Triangular debating ar-
rangements have been made whereby the Agricultural College debates the University of Utah and the Brigham Young University every year on the same question. Those who win places on these teams receive a gold locket and are admitted to membership in the Agora, an honorary debating fraternity. Inter-state debates, as well as inter-class for which gold medals are given, are also held.

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

5. *Student Publications.* The students of the College, under the direction of the faculty of English, publish a weekly school paper, *Student Life*, which contains timely editorials, news items, announcements, reports, and forecasts of College activities.

The junior class publishes the College year book, named *The Buzzer*.

6. *Lyceum Course.* Each year the Student Body presents, in connection with the B. Y. College, from four to six lecturers, readers, or musicians, of national or local repute. These entertainments are free to members.

**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 agriculture. The club is effecting similar organizations in the high schools of the State. Special lectures, often illustrated, are given at intervals throughout the season.

*The Agricultural Engineering Society* which aims to stimulate the interest of students in the more practical side of the work embraced by the engineering courses. Men of repute are invited
to discuss questions before the society. It also aims to promote
the interest of the students socially.

The Home Economics Club, which is composed of the students
in domestic science and arts. The object of the club is to keep
students in touch with movements in their field and to promote
interest in home economics. Many home economic societies in the
high schools of the State are affiliated with this organization.

The Commercial Club, working to promote the interests of the
Commercial School, 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 fra­
ternity for students in agriculture. Members are chosen for
scholarship from the upper two-fifths of the junior and the senior
classes in agriculture.

The Agora, a fraternal organization open to men from the
intercollegiate debating teams. Its purpose is to foster debating
in the College and to keep alive among the old debaters an interest
in such contests.

A number of fraternities, sororities, and other social organi­
zations are also in successful operation.

STUDENT EXPENSES

Tuition is free. Utah students pay an annual entrance fee of
$5; students registering from other states pay $25. The privileges
of the library and museums are free. In most of the laboratory
and shop courses students are charged an incidental fee of $1 a credit hour. The total amount varies in each case in accordance with the courses taken, ranging from $2 to $13 a year.

Every regular student must pay a Student Body fee of $5 for which a ticket is issued admitting him to all the activities controlled by the Student Body Organization: athletic events—football, basketball, baseball, and track—dramatic and musical entertainments, socials, lectures, etc. 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.

All male students, during three years of their course, are required to take military drill and must purchase a military uniform. To this rule there is no exception, unless physical disability or a very unusual reason exists. This uniform is obtained thru the Secretary of the College at actual cost, about $17, and has been found very serviceable and far more attractive in appearance than civilian clothes of the same price. With proper care one uniform will last two years.

All students in domestic science must provide themselves with two white aprons, two pairs of white half-sleeves, and two holders, six inches square.

All students taking physical culture must provide themselves with a gymnasium suit and gymnasium shoes. These may be procured at the College. Cost, about $4.

The fee charged for a diploma of graduation is $5.

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

Good board and rooms can be obtained in private homes for $3.50 to $4.50 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, at cost, students may get a well cooked meal daily.

The cost of necessary books and stationery ranges from $10 to $15 a year.
BUILDINGS AND EQUIPMENT

The College now has nearly thirty smaller and larger buildings, all modern, all well lighted, and well heated by a central heating plant, and all carefully planned.

The Main Building, of brick and stone, 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 Woman's Building is a four-story brick structure fifty by eighty feet, situated three minutes' distance from the Main building, on the north-west corner of the campus. Cement walks connect it with the other school buildings. It is one of the largest and best equipped structures devoted entirely to domestic science and arts in the inter-mountain region. It has automatic elevator service from the locker room and laundry in the basement to the spacious rooms on the fourth floor. A large lecture room used for class work and public lectures, a small class room and a kitchen-laboratory equipped with gas for individual work, a library, and an office are on the first floor. The second kitchen-laboratory, equipped with electricity for individual work, a small kitchen, a dining room, a chemical and a research laboratory are on the second floor. The third floor, devoted entirely to the domestic arts, contains the office, millinery room, sewing, dressmaking, and fitting rooms with complete equipment. The fourth floor contains a rest room, class room, and a large room used for museum material.

The Thomas Smart Gymnasium, one of the finest and most complete college gymnasiums in the Rocky mountain region, houses the department of physical education. It contains a main exercise hall, 114 by 70 feet, well lighted and ventilated. The equipment is so arranged as to be quickly put in place or hoisted out of the way, leaving a clear floor space for large games or dances. Ten feet above the main floor is a running-track, a hand-ball court, and a wrestling and boxing room.
The women’s gymnasium, occupying the south end of the building, has a floor space 70 by 40 feet. In the north end of the building is a swimming pool, 60 by 24 feet, supplied with filtered water, affording superb opportunity for swimming and aquatic sports. In the center are two large dressing rooms equipped with steel lockers, shower and tub baths, a steam room, and all the conveniences found in modern gymnasiums.

The Experiment Station Building, a two-story brick structure 45 feet long and 35 feet wide, contains the offices of the station staff, a reading room, 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 woodworking department, machine shop, forging rooms, foundry, carriage building rooms, mechanic arts museum, drafting rooms, blueprinting room, room for painting and staining, and class rooms.

Since this building is also the home of the Departments of Agricultural Engineering and Farm Machinery, it contains laboratories specially equipped with gasoline engines of from two to fifteen horse-power, a horizontal steam engine of six horse-power, a large collection of agricultural machinery, a hundred-thousand-pounds testing machine, a cement testing machine, transits, levels, tapes, leveling rods, range poles, and other apparatus used by students in surveying, irrigation, drainage, and road construction. The drawing rooms and shops of the Mechanic Arts department, with their complete equipment, are accessible to students in agricultural engineering.

The machine shop is equipped with a 15 H. P. motor, a 24 in. planer, crank shapers, speed lathes, 14 in. engine lathes, a 36 in. radial drill, universal milling machines, a universal tool and cutter grinder, emery wheels, power hack-saw, twenty machinist’s vises with work bench, tool cabinet, tool room, case containing a supply of small tools for general use, and a variety of other equipment.

The drafting room contains thirty-five drawing tables, boards, model co-ordinate planes, filing case, and blue-printing facilities.

The forge shop contains thirty-two down-draft forges, each
equipped with a full set of tools, a drill press, a power hammer, and an emery wheel,—all driven by electric power.

The carriage shop contains four benches, each equipped with the necessary tools for carriage work.

**A Three-story Chemistry Building** is occupied by the Departments of Chemistry, Physics, and Bacteriology.

**The Barns** are equipped with good representatives of the various breeds of cattle, horses, sheep, and hogs, most common in the western section. Approved methods of live stock management are practiced.

**The Stock Judging Pavilion,** where the classes in stock judging are held, makes it possible to do judging in all kinds of weather.

In addition to these, a college creamery is maintained, where butter and cheese of the best quality are made, and where students are taught scientific methods.

**The Poultry Building,** 230 feet by 25 feet, is divided into two parts: first, the brooder section, with a capacity for about one thousand chicks; second, the experimental section, with a capacity for over five hundred hens, divided into thirty-two pens used for conducting experiments in poultry culture. The building is heated with hot water. In the front part are an office, a feed and weigh room, a store room, and a sleeping apartment.

The modern incubator cellar is well equipped with the latest incubators of different makes, egg distributing and turning tables, pedigree hatching trays, hygrometers, thermometers, acetylene, and electric egg testers.

**The Greenhouses** are equipped for laboratory instruction in the propagation of horticultural plants, and in the practice of floriculture and vegetable gardening.

The many apple orchards in the vicinity give exceptional opportunity to study orchard problems and conduct laboratory exercises in pruning, grafting, picking and packing, etc.

**The Veterinary Hospital,** a two-story stone and frame structure, 18 by 42 feet, containing a well-equipped dispensary,
operating room, and stalls for patients, gives ample room for all
the work in veterinary medicine at present offered by the College.

EQUIPMENT

The Bacteriological Laboratory is well equipped with modern
apparatus. Each student is provided with a high-power Leitz or
Bausch and Laub microscope. Microscopes with triple nose-piece,
fitting with 1-12 and 1-16 oil-immersion objectives, Abbe condenser,
and rotary and mechanical stage, are used for identification work.
The equipment includes an autoclave, hot-air and steam sterilizers,
incubator, refrigerators, aerobic plate apparatus, anaerobic tube
apparatus, microtome, analytic balance, cages, permanent mounts,
precision glassware, chemicals, stains, and culture media. To
encourage careful work, the students are provided with individual
lockers.

The Chemical Laboratories are also well equipped for ele-
mentary and advanced chemistry. Several valuable collections of
gums, oils, coloring matters, foods, etc., are important aids to the
students in this department. The laboratories are fitted with
water, gas, hoods, and other conveniences.

The Physical Laboratory Equipment is complete, consisting
of all the necessary apparatus for class demonstration: a set of
apparatus for elementary laboratory work, sufficient for fifteen
students working on the same experiment; all pieces required for
advanced work in mechanics, heat, electricity, magnetism, light,
including high grade electrical measuring instruments of all kinds,
standard and variable resistances, induction coils, dynamos, mo-
tors and rectifiers, heliostat, interferometer, spectrometers, polaris-
scope, thermostat, finest of calorimeters, Beckman thermometers,
thermocouples, cathetometer, Atwood machine, sensitive chemical
balances, thermograph, barograph, anemometer, etc. Gas, water,
compressed air, and continuous and alternating current electrical
power are available.

The Physiological Laboratory, located on the first floor, in
the south wing of the Main building, is supplied with skeletons both articulated and disarticulated, many enlarged models of organs, a papier mache manikin, and complete slides of all the tissues. Students have access to a set of vertebrate skeletons and to an excellent collection of native animals. The necessary reagents for physiological experimentation are at hand.

The Zoological and Entomological Laboratory is equipped with water and gas, improved instruments, embryological models, skeletons from the vertebrate groups, collections of mounted birds, mammals, reptiles, and fishes; also alcoholic material in many groups. The department has economic and systematic collections of insects, which, with the private collections and libraries of the professors, are accessible to the students.

The Botanical and Plant Pathological Laboratory contains a large herbarium of flowering plants, ferns, horsetails, fungi, and algae for use in systematic botany and in the study of plant diseases. The laboratory is well equipped to do general work in all courses offered, as well as in research work. The apparatus consists of microtomes, both rotary and free hand, compound microscopes, dissecting microscopes, autoclave, Arnold sterilizer, a hot-air oven, an electrically equipped paraffin bath, balances, clinostat, culture room, together with glassware, reagents, and stains necessary to carry on successful botanical work. 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, including balances, microscopes,
drying ovens, hot-water baths, compacting machines, and apparatus for determining the mechanical analysis of soils.

The farm crops laboratory, equipped with gas, has a large supply of farm crops on hand for illustrative and laboratory work. It is supplied with magnifying glasses, a Grey seed weigher, a vertical air-blast seed separator, a seed germinator and tester, as well as enlarged and dissectible models of various grains, grasses, and root crops.

*The Commercial Rooms* occupy the entire third floor of the front of the Main building, covering a floor area of 7,225 square feet. Each room is specially designed and furnished for business. Practice is given in the methods of modern banking; wholesale, retail, and commission trade; and in the methods used in freight, insurance, and real estate offices. The room for typewriting contains a full complement of standard machines. The rooms for stenography and penmanship are conveniently furnished for efficient work.

*The College Museums* contain many specimens illustrative of geology, mineralogy, paleontology, and vertebrate and invertebrate zoology, including a large series of the insects of the intermountain region; also an extensive series of plants of the western highlands. An extensive collection of grains represents the produce of Utah and other states. Contributions of fossils, ores, animals, plants, relics, or other material of value to the museums, are highly appreciated. All gifts are labeled and preserved, and the name of the donor is recorded.

*The Art Rooms*, composed of six studios, are supplied with plain and adjustable tables for the elementary work in drawing and design; also with easels and model stands for the studio. Individual lockers for students, and cases for the materials of the department are supplied. Casts from the old masters in sculpture, reproductions of great paintings, examples of Japanese art, still-life models, drawing boards, and draperies are included in the equipment, as well as a valuable collection of ceramics, textiles,
books on design, household art, sculpture, painting, and architecture.

The rooms are further supplied with a kiln for china firing, and equipment for work in ceramics, pottery, art leather, art metal, and jewelry.

Model rooms are supplied for training in interior decoration and household furnishing.

The Library, with the offices and reading room, occupies the entire front of the second floor of the Main building. The large, well-lighted main room is cheerful and inspiring, with an unsurpassed view over the entire valley. Growing plants, pieces of sculpture, and a number of oil paintings further enhance the attractiveness of the environment. The books are shelved on the Library Bureau, standard, steel stacks, arranged in alcoves, where tables are provided for advanced students wishing to do special study.

The library now contains about 28,000 bound volumes and a large number of pamphlets. The books are classified by the Dewey decimal system, and there is a complete dictionary card catalog of the library. The shelf list, also on cards, forms a classed catalog for official use.

The library, a depository for United States public documents, receives practically all material printed by the government. The files of the U. S. Agricultural Department and the publications of the State Experiment Station are nearly complete; the bulletins are bound, and both made easy of access by the printed card catalogs. There are one hundred and twenty-five periodicals on the subscription list, besides about eighty which are received as exchanges for the publications of the College and of the Experiment Station. Thirty-five newspapers of the State are regularly received and placed on file in the reading room.

The land occupied by the College and its several departments embraces about 116 acres. Of this, thirty-five acres constitute the campus, laid out with flower-beds, broad stretches of lawn, tennis courts, wide drives and walks leading to the College buildings.
During the summer the conservatory contributes specimen plants for lawn decoration.

Immediately east of the Main building are the parade grounds and old athletic field, of about ten acres. The new Adams athletic field is one-fourth mile west of the campus. The farms comprise 71 acres; the orchards and the small fruit and vegetable gardens, 10 acres. Nearly all parts of the College grounds are used by the professors in charge of instruction in agriculture and horticulture and by the Experiment Station staff for the purpose of practical illustration in their respective departments, and for experimentation.

A number of 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 department of the College, supported by Congressional and State appropriations, supplemented by the receipts from the sales of farm products. The Station was created for the purpose of discovering new truths that may be applied in agriculture, and of making new applications of well-established laws. Essentially devoted to research, it does the most advanced work of the College.

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 the other 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 regions. Irrigation, the foundation of western agriculture, has received greatest atten-
Elaborate experimental plats have been equipped, where the value of different quantities and methods of application of water has 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 experimental dry-farms are maintained on which every effort is made to increase production. Many of the present investigations involve the 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 agricultural West are under investigation. Breeding experiments for the improvement of sugar beets, dry land grains, alfalfa, and poultry are in progress. Studies of insect pests and plant diseases affecting western crops and orchards have received consideration. The problem of producing fruit free from worms has been practically solved. The control of the alfalfa weevil is the present problem. The development of better cropping methods, care and feeding of livestock, the development of the dairy industry, and the general betterment of western agricultural conditions are among the problems the Station is attempting to solve.

State appropriations are granted under provision that the Southern experiment farm and the arid experiment farms be maintained, and that work in irrigation and drainage, and the study of the alfalfa weevil, be continued. Publications of the Station are also provided for. Bulletins containing the results of experimental work, circulars containing timely and practical information on various subjects, an annual report,—these constitute the publications of the Station. The bulletins and circulars are published at irregular intervals.

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, and 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 the advanced students in any investigation they wish to undertake.

THE EXTENSION DIVISION

Organized for the purpose of disseminating all the work of the College among the people of the State, as far as practicable, and for the further purpose of beginning new work outside the College, which may be of service to the people of the State, the 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.

ADMINISTRATIVE DEPARTMENTS

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

I. Farm Management Extension Work
   1. Farmers Institutes and Schools
   2. Farm Demonstrations

II. Home Management Extension Work
   3. Women's Social and Home Economics Associations
   4. Home Demonstrations

III. Junior Vocational Extension Work
   5. Boys' and Girls' Clubs.
   6. High School Clubs

IV. Correspondence Studies

V. Miscellaneous
   7. Trains, Fairs and Exhibits
   8. Publications
Farmers' Institutes and Schools conduct meetings among the farmers and housewives of the State. These meetings may be single, called institutes; or they may be organized courses of study in one or many subjects, called schools. In the schools, the field of instruction is broad, based largely upon existing courses of instruction in the College. At present the following courses of instruction are emphasized because of their immediate relation to the needs of the State: agronomy, agricultural economics, agricultural engineering, animal husbandry and dairying, entomology, home economics, horticulture, irrigation, poultry husbandry, and veterinary science. As the work develops, the field of instruction may be enlarged to include all the courses given in the institution which are adaptable to extension instruction.

Farm and Home Demonstration directs the county demonstrators, also called agents and advisers. These travel from farm to farm and from home to home teaching such facts, principles, and practices of modern agriculture and home science as seem needed in the development of the districts assigned. The demonstrator co-operating with the experts at the College and of the United States Department of Agriculture, is a member of the extension faculty in agriculture and home economics.

Boys' and Girls' Clubs and High School Slubs, conducted cooperatively with the United States Department of Agriculture, interest boys and girls in agriculture, home economics, and other industrial subjects, and serves the parents of the State in supplying work of great intellectual and practical value for their sons and daughters. This department is affiliated with public schools, church organizations, and other existing organizations of boys and girls. Contests are conducted in the growing of potatoes, sugar beets, mangel wurzels, cabbages, onions, peas, tomatoes, cucumbers, celery, poultry, corn and pigs, and in the making of bread, in canning, sewing, in the arts and crafts, etc. The competition is arranged first among members of the same club; then among the
champions of the clubs in the county; and finally, among the champions of all the counties. A State champion boy and a girl are thus selected each year. To promote the work, various prizes are offered.

Associations for Women work thru the women’s organizations of the State — civic, religious, or literary — and organize groups of girls and women for study of home economics. Monthly study outlines, or home economics leaflets, are issued by the Extension Division for the use of the home economics associations. Other women’s organizations in the State are helped in their educational and home work, by special lectures, supplying reading matter, suggestions for organization, and study outlines.

The Correspondence-Study Department. One of the recent developments of college and university organization is the establishing of correspondence-study departments, in order to extend their activities to the fireside.

Correspondence-study furnishes an excellent opportunity of systematic instruction for the student preparing for high school or college, the teacher, the professional or business man, club women, and for all who cannot leave home.

Admission to Correspondence Work. Students must be eighteen years of age or graduates of the public school.

Scope. Courses offered:
1. Academic studies which, under certain restrictions, lead to a degree.
2. Practical studies designed to advance men and women in a given occupation.
3. Free Courses for the Farmer: Short, practical, non-credit courses in agronomy, animal husbandry, horticulture, farm machinery, bee-keeping, etc.
4. Free 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. Preparatory or high school course.
6. Preparatory or grade studies.

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

The purpose of the Department of Trains, Fairs and Exhibits is to conduct trains in co-operation with the railroads; to encourage county and other fairs by supplying organization and exhibition outlines, lectures, premium lists, and judges of exhibits. On various other occasions the Extension Division supplies material for exhibition.

The publications of the Division are issued as occasion demands.

COLLEGE PROPER

ORGANIZATION

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; (5) The School of Mechanic Arts; (6) The School of General Science; (7) The Summer School.

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

*The School of Home Economics* offers a four-year college course with opportunity to major in food and dietetics, domestic arts, home sanitation and construction, art, and music.

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

*The School of Commerce* offers a four-year college course
with the opportunity to major in accounting, economics, political science, sociology, and history.

The School of Mechanic Arts offers a college course in mechanic arts, with the opportunity to major in woodwork, iron work, and machine work.

The School of General Science offers a four-year college course in general science.

The Summer School offers instruction during six weeks of the summer, after the regular term has closed, 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 Normal Training, see page 50.

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 begin to equal the demand.

The instruction in agriculture is drawn from any or all departments giving instruction in the technical phases of agriculture as described further on.

Experience has shown that practically all of the students who take agriculture come from the farms, and it is assumed that they
are acquainted with the various manual operations of farm work. The design of the courses 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 the 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.

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 page 52.

THE SCHOOL OF HOME ECONOMICS

The courses in Home Economics aim to train and broaden the minds of women, and to enable them to meet more intelligently the home demands of modern life. When woman has learned to apply the principles of science, economics, and art to the problems of daily living she will realize that housekeeping is an occupation which results in more efficient living. Formerly the higher education of woman led her away from the practical interests of the home. The recent instituting of domestic science courses in many leading colleges and universities shows a public demand for education toward home life rather than away from it. The State of Utah wisely introduced such courses when the College was first organized; and the favor with which the work has been received by the public shows the wisdom of the plan. The home economics courses have been strengthened each year, and better facilities for instruction and study have been provided. The School of Home Economics comprises five departments,—namely, Food and Dietetics, Domestic Art, House Construction and Sanitation, Art,
and Music. The four-year courses give the same general training as do other baccalaureate courses, together with a broader culture in literature and other subjects of special interest to women than is offered in any other. Both in the preliminary work and in the advanced years, special studies in home science are prescribed in logical order as the distinctive feature of the course.

The practical courses in home economics are offered for the benefit of young women who do not wish to take the studies of the regular college years, but desire to devote more time to the subjects of special interest to women.

For majors and minors see page 52.

**THE SCHOOL OF AGRICULTURAL ENGINEERING**

The rural problem has many phases. An adequate and self-perpetuating country life cannot be introduced 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 irrigation and drainage, farm mechanics, agricultural surveying, farm and public roads, rural architecture, rural sanitation and public health, agricultural technology, and art. These courses all lead to the degree of Bachelor of Science.

THE SCHOOL OF COMMERCE

The purpose of the School of Commerce is to give opportunity for a 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 economics, political science, sociology, accounting, and history.

In addition to these college courses, practical year and winter 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, and many desirable positions as industrial managers are open to those who are qualified.
THE SCHOOL OF MECHANIC ARTS

This school offers three-year trade courses in contracting and building, forging and carriage work, and automobile repairing; and a two-year trade course in painting and interior decoration. These afford opportunity for persons endowed with mechanical ability and taste, to develop their powers, and to enjoy working where nature intended. The life of the trained mechanic is as free as any, and his efforts bring good wages. The shops are especially equipped and otherwise prepared for instructing those who choose this as a source of livelihood.

The information offered in the mechanic arts courses 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 him 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 follow engineering will find no better preapration 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 thoro 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.
All the departments of the School of Mechanic Arts are excellently equipped with the necessary tools for their respective work.

A four-year college course leading to the degree of Bachelor of Science is offered. Students may major in wood work, iron work, machine work, and art. Short Practical Year and Winter 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 GENERAL SCIENCE

To carry out the work of the several technical schools of the College, an efficient instructing force and a 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 General Science, and, paralleling the other degree courses of the College, lead to the degree of Bachelor of Science.

Upon completion of four years' work in general science, students receive the degree of Bachelor of Science in General Science.

For subjects in which students may major or minor, see page 53.

SUMMER SCHOOL

The College maintains, as an integral part of its work, a summer session, beginning early in June, and continuing for six weeks. Every 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, special courses
are provided in addition to 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. No admission requirements are prescribed, but students in all departments are directed by instructors to those courses in which they may pursue work to the best advantage. Arrangements have been made with the State Board of Education to accept summer school credits in individual subjects in lieu of examination. An entrance fee of $5 is charged for each course. Board and rooms can be secured throughout the city at the usual prices. The special summer school circular will be sent on request.

NORMAL TRAINING. For the purpose of providing specially trained teachers of domestic science and arts, agriculture, and mechanic arts, arrangements have been made whereby the graduates of the Normal School of the State University may enter the degree courses of the Agricultural College and there obtain technical work in home economics, agriculture, and mechanic arts. All the work done in the State Normal School is credited the candidates for the professional degree.

Graduates from the degree courses in home economics, agriculture, and mechanic arts of the Agricultural College are given the normal certificate upon the completion of one year of professional work at the State Normal School.

SCHEDULE OF REQUIRED WORK FOR GRADUATION

A regular student must present 16 units of high-school work for entrance, and complete 120 semester hours of college work before receiving his diploma. (A student who has presented for entrance 11 units of high-school work, under the old requirements, must complete 140 semester hours
before receiving his diploma.) Of the required 120 hours, 16, forming the major, must be in one department. The minor of 12 hours, chosen from one or more departments, must be taken in the same school as the major. This is the so-called technical work. Besides this, 64 hours of general work must be chosen from different groups. Finally, 28 hours of elective work are required. This is shown in tabular form as follows:

SUMMARY OF REQUIREMENTS FOR GRADUATION

(In Semester Credit Hours)

Technical Division
Major Subject ............................................. 16 hours
Minor Subject (must be in same school as the major subject) ............................................. 12 “

General Division
Biological Science Group ................................. 12 “
Elective ...................................................... 28 “
Exact Science Group ....................................... 24 “
Language Group ............................................ 16 “
Social Science Group ....................................... 12 “

Total ......................................................... 120 hours

The departments of instruction from which major and minor subjects may be elected are grouped as follows:

REQUIRED WORK

Technical Division
Major, 16 hours in one department
Minor, 12 hours in some other department or departments of the same school
SCHOOL OF AGRICULTURE

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

Chemistry
Dairying
Entomology
Horticulture
Veterinary Science

SCHOOL OF AGRICULTURAL ENGINEERING

Art
Agricultural Surveying
Agricultural Technology
Farm Mechanics

Irrigation and Drainage
Roads
Rural Architecture
Rural Sanitation

SCHOOL OF COMMERCE

Accounting and Business Practice
Art (minor only)
Economics
History

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

SCHOOL OF HOME ECONOMICS

Art
Domestic Art
Food and Dietetics

Home Sanitation and Construction
Music

SCHOOL OF MECHANIC ARTS

Art
Iron Work

Machine Work
Wood Work
SCHOOL OF GENERAL SCIENCE

Art
Bacteriology
Botany
Chemistry
Drill*
English
Entomology
Foreign Languages
Geology

History
Library Work*
Mathematics
Music
Physics
Physical Education*
Physiology
Zoology

The departments of instruction from which the general subjects may be elected are grouped as follows:

REQUIRED WORK

General Division

BIOLOGICAL SCIENCE GROUP (12 hours)

Bacteriology
Botany
Entomology

Physiology
Veterinary Science
Zoology

EXACT SCIENCE GROUP (24 hours)

Accounting
Chemistry
Geology and Mineralogy

Mathematics
Physics

LANGUAGE GROUP (16 hours)

English
French
German

Latin
Spanish

*May count towards a minor.
SOCIAL SCIENCE GROUP (12 hours)

Economics
History

Political Science
Sociology

ELECTIVES (28 hours)

PRACTICAL COURSES

Winter and year courses of a practical nature, in agriculture, home economics, mechanic arts, and commerce have been established. To enter them, a person must be over eighteen years of age, or must have completed two years of high-school work. There are neither entrance requirements, nor entrance examinations. Such students are allowed to take any course for which their training is adequate. No student is permitted to choose work in commerce, however, without taking at the same time a course in English. Special groups of studies suitable for such students are given below:

FULL YEAR COURSES

AGRICULTURE

<table>
<thead>
<tr>
<th>First Term</th>
<th>Second Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agronomy 1</td>
<td>Animal Husbandry 1</td>
</tr>
<tr>
<td>Horticulture 1</td>
<td>Irrigation 1</td>
</tr>
<tr>
<td>Veterinary Science 1</td>
<td>Entomology 1</td>
</tr>
<tr>
<td>Poultry 1</td>
<td>Dairying 1</td>
</tr>
<tr>
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<td>Shop</td>
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HOME ECONOMICS

<table>
<thead>
<tr>
<th></th>
<th>1st Term</th>
<th>2nd Term</th>
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</thead>
<tbody>
<tr>
<td>Domestic Art a and b</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Domestic Science</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Physiology 1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>English a</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Art</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Gymnasium Work</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Accounting 1</td>
<td>5</td>
<td>5</td>
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</tbody>
</table>
**AGRICULTURAL COLLEGE OF UTAH**

**MECHANIC ARTS**

<table>
<thead>
<tr>
<th>Course</th>
<th>1st Term</th>
<th>2nd Term</th>
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<tbody>
<tr>
<td>Carpentry a and b</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Forging a and b</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Machine Work a and b</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>

**COMMERCE**

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>1st Term</th>
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<tbody>
<tr>
<td>English a</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Business Correspondence and Commercial Arithmetic</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Accounting a</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Stenography a</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Typewriting</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Physical Education</td>
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<td>1</td>
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**SECOND YEAR**

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<tbody>
<tr>
<td>English b</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Accounting b</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Stenography b</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Penmanship a</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Typewriting b</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Drill</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
<td>2</td>
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<td>20</td>
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**THIRD YEAR**

<table>
<thead>
<tr>
<th>Course</th>
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<th>2nd Term</th>
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<tbody>
<tr>
<td>Accounting c</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>English c</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Political Science 2</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Drill</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Electives</td>
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<td>8</td>
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<td></td>
<td>20</td>
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</tr>
</tbody>
</table>
The electives should be chosen under the direction of department heads.

THREE-YEAR COURSES

CARPENTRY

<table>
<thead>
<tr>
<th>First Term</th>
<th>Second Term</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Year</strong></td>
<td><strong>Second Term</strong></td>
</tr>
<tr>
<td>Carpentry a</td>
<td>Carpentry b</td>
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<td>Tech. of M. A. 6</td>
<td>Tech. of M. A. 6</td>
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<tr>
<td>(Shop Problems)</td>
<td>(Shop Problems)</td>
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<tr>
<td>Mech. Drawing a</td>
<td>Mech. Drawing b</td>
</tr>
<tr>
<td>Art 2</td>
<td>Art 2</td>
</tr>
<tr>
<td>Tech. of M. A. 1</td>
<td>Tech. of M. A. 4</td>
</tr>
<tr>
<td>(Survey of Trades)</td>
<td>(Contracting)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SECOND YEAR</strong></td>
<td><strong>THIRD YEAR</strong></td>
</tr>
<tr>
<td>Carpentry 1</td>
<td>Carpentry 4</td>
</tr>
<tr>
<td>Mech. Drawing 1</td>
<td>Tech. of M. A. 5</td>
</tr>
<tr>
<td>Art 26</td>
<td>(Contracting)</td>
</tr>
<tr>
<td>Tech. of M. A. 7</td>
<td></td>
</tr>
<tr>
<td>(Materials)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>THIRD YEAR</strong></td>
<td></td>
</tr>
<tr>
<td>Carpentry 3</td>
<td>Carpentry 4</td>
</tr>
<tr>
<td>Tech. of M. Arts 5</td>
<td>Tech. of M. A. 5</td>
</tr>
<tr>
<td>(Contracting)</td>
<td>(Contracting)</td>
</tr>
<tr>
<td>Art 27</td>
<td>Mech. Drawing 7</td>
</tr>
</tbody>
</table>
### Agricultural College of Utah

#### FORGING

**First Year**

<table>
<thead>
<tr>
<th>Term</th>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Term</strong></td>
<td>Forging a</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Tech. of M. A. 6 (Shop Problems)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Mech. Drawing a</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Art 2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Tech. of M. A. 1 (Survey of Trades)</td>
<td>2</td>
</tr>
</tbody>
</table>

**Second Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forging b</td>
<td>5</td>
</tr>
<tr>
<td>Tech. of M. A. 6 (Shop Problems)</td>
<td>2</td>
</tr>
<tr>
<td>Mech. Drawing b</td>
<td>2</td>
</tr>
<tr>
<td>Art 2</td>
<td>2</td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forging 1</td>
<td>5</td>
</tr>
<tr>
<td>Mech. Drawing 1</td>
<td>2</td>
</tr>
<tr>
<td>Art 26</td>
<td>2</td>
</tr>
<tr>
<td>Tech. of M. A. (Materials)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Third Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forging 3</td>
<td>5</td>
</tr>
<tr>
<td>Tech. of M. A. 3 (Automobiles)</td>
<td>2</td>
</tr>
<tr>
<td>Mech. Drawing 4</td>
<td>2</td>
</tr>
</tbody>
</table>

**MACHINE WORK**

**First Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine Work 1</td>
<td>5</td>
</tr>
<tr>
<td>Art 2</td>
<td>2</td>
</tr>
<tr>
<td>Mech. Drawing a</td>
<td>2</td>
</tr>
<tr>
<td>Tech. of M. A. 6 (Shop Problems)</td>
<td>2</td>
</tr>
<tr>
<td>Tech. of M. A. 3 (Automobiles)</td>
<td>2</td>
</tr>
<tr>
<td>Tech. of M. A. 1 (Survey of Trades)</td>
<td>2</td>
</tr>
</tbody>
</table>

**Second Term**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine Work 2</td>
<td>5</td>
</tr>
<tr>
<td>Art 2</td>
<td>2</td>
</tr>
<tr>
<td>Mech. Drawing b</td>
<td>2</td>
</tr>
<tr>
<td>Tech. of M. A. 6 (Shop Problems)</td>
<td>2</td>
</tr>
<tr>
<td>Tech. of M. A. 3 (Automobiles)</td>
<td>2</td>
</tr>
</tbody>
</table>
SECOND YEAR

Machine Work 3 ............ 5
Mech. Drawing 1 ........... 2
Tech. of M. Arts 4 (Wood Finishing) ............ 3

Machine Work 5 ............ 5
Mech. Drawing 2 ........... 2
Tech. of M. A. 2 (Mechan-ism) ............ 2

THIRD YEAR

Machine Work 6 ............ 5
Mech. Drawing 6 ........... 2

Machine Work 7 ............ 5
Machine Work 10 ........... 3

INTERIOR DECORATION

FIRST YEAR

First Term

| Art 1 | 2 |
| Dom. Art 1 | 2 |
| Art 5A | 3 |
| Art 25 | 5 |
| Art 27H | 2 |
| Elective | 3 |

Second Term

| Art 21 | 2 |
| Dom. Art 2 | 2 |
| Art 5A | 3 |
| Art 25 | 5 |
| Art 27H | 2 |
| Elective | 3 |

SECOND YEAR

| Art 25 | 5 |
| Art 5A | 3 |
| Art 22 | 5 |
| Art 26 | 2 |
| Elective | 3 |

THIRD YEAR

| Art 25 | 5 |
| Art 5B | 3 |
| Art 23 | 2 |
| Art 3 or elective | 2 |
| Art 27C | 2 |
| Elective | 3 |
**TWO-YEAR COURSES**

**SHOW CARD AND SIGN WRITING**

**FIRST YEAR**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Second Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 27G</td>
<td>Art 27G</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Art 27K</td>
<td>Art 27K</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Art 5A</td>
<td>Art 5A or B</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>English 6</td>
<td>English 6</td>
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<tr>
<td>3</td>
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<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

**SECOND YEAR**

| Art 27G    | Art 27G     |
| 5          | 5           |
| Art 27K    | Art 27K     |
| 3          | 3           |
| Art 5A or B| Art 5E      |
| 4          | 5           |
| English 7  | English 7   |
| 2          | 2           |
| Elective   | Elective    |
| 3          | 3           |

**ART METALRY**

**FIRST YEAR**

<table>
<thead>
<tr>
<th>First Term</th>
<th>Second Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 27C</td>
<td>Art 27C</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Art 27K</td>
<td>Art 27K</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Art 1</td>
<td>Art 5</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Wood Work</td>
<td>Wood Work</td>
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<tr>
<td>5</td>
<td>5</td>
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<tr>
<td>Elective</td>
<td>Elective</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

**SECOND YEAR**

| Art 27C    | Art 27C     |
| 5          | 5           |
| Art 27D    | Art 27D     |
| 3          | 3           |
| Art 27K    | Art 27K     |
| 2          | 2           |
| Art 27 elective | Art 27 elective |
| 4          | 4           |
| Elective   | Elective    |
| 3          | 3           |
### CHINA PAINTING

#### FIRST YEAR

<table>
<thead>
<tr>
<th>First Term</th>
<th>Second Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 27B</td>
<td>5</td>
</tr>
<tr>
<td>Art 1</td>
<td>2</td>
</tr>
<tr>
<td>Art 27K</td>
<td>2</td>
</tr>
<tr>
<td>Art 5A</td>
<td>3</td>
</tr>
<tr>
<td>Art 27</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

#### SECOND YEAR

| Art 27B    | 5           | Art 27B    | 5           |
| Art 27K    | 3           | Art 27K    | 3           |
| Art 27 elective | 2         | Art 27 elective | 2          |
| Art 5A or B | 3           | Art 5A or B | 3           |
| Elective   | 4           | Elective   | 5           |

### FABRIC DECORATION

#### FIRST YEAR

<table>
<thead>
<tr>
<th>First Term</th>
<th>Second Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 27H</td>
<td>5</td>
</tr>
<tr>
<td>Art 1</td>
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</tr>
<tr>
<td>Art 5A</td>
<td>3</td>
</tr>
<tr>
<td>Dom. Art 1</td>
<td>2</td>
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<tr>
<td>Art 27F or elective</td>
<td>2</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

#### SECOND YEAR

| Art 27H    | 5           | Art 27H    | 5           |
| Art 24     | 2           | Art 24     | 2           |
| Art 27E (Basketry) | 2         | Art 27E (Basketry) | 2          |
| Art 5A or B | 3           | Art 5A or B | 3           |
| Dom. Art   | 3           | Dom. Art   | 3           |
| Elective   | 2           | Elective   | 2           |
EXPERIMENT STATION

WOMAN'S BUILDING.
THE THOMAS SMART GYMNASIUM

MECHANIC ARTS BUILDING
WINTER COURSES

These courses are designed for students who are on the farm late in the fall and early in the spring. The instruction given covers one half of a school year. Credits earned in the winter courses may be applied towards graduation should the student enter a regular course.

The instruction begins Tuesday, November 16, and closes Saturday, March 25.

The following subjects will be offered from which winter students may elect from 18 to 20 hours:

<table>
<thead>
<tr>
<th>AGRICULTURE</th>
<th>SECOND YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR</strong></td>
<td><strong>SECOND YEAR</strong></td>
</tr>
<tr>
<td>Crops and Soils........... 5</td>
<td>Stock Judging ........... 5</td>
</tr>
<tr>
<td>Fruit Growing .......... 5</td>
<td>Insect Pests ........... 5</td>
</tr>
<tr>
<td>Poultry Keeping ........ 5</td>
<td>Veterinary Science ........ 5</td>
</tr>
<tr>
<td>Shop Work ........ 5</td>
<td>Farm Accounting ........ 5</td>
</tr>
<tr>
<td>(Not more than four may be taken.)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MECHANICAL ARTS AND AGRICULTURAL ENGINEERING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Farm Buildings and Machinery ................. 5</td>
</tr>
<tr>
<td>Carpentry ........................................ 5</td>
</tr>
<tr>
<td>Forging .......................................... 5</td>
</tr>
<tr>
<td>Machine Work ..................................... 5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COMMERCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>English x ........................................ 5</td>
</tr>
<tr>
<td>Business Correspondence and Spelling; Commercial Arithmetic .... 5</td>
</tr>
<tr>
<td>Penmanship ........................................ 1</td>
</tr>
<tr>
<td>Accounting a ..................................... 3</td>
</tr>
<tr>
<td>Political Science ................................ 3</td>
</tr>
</tbody>
</table>
Classes in mathematics and other general subjects are also organized for winter students.

SPECIAL STUDENTS

Students of mature age who do not wish a college diploma are allowed to select studies in any school, provided they have done enough preliminary work to carry the courses successfully.

RELATION BETWEEN U. OF U. AND U. A. C.

The University of Utah and the Agricultural College of Utah are the two institutions maintained by the State for the higher education of its citizens. They have been assigned separate and sharply defined parts of the field of human knowledge. The laws defining these divisions are printed below.

In spite of the existing laws, much misunderstanding exists as to the work that may be done by either of these institutions. To set doubts at rest, the agreement printed below, which is merely an interpretation of the law, has been ratified by the Board of Regents of the University of Utah and by the Board of Trustees of the Utah Agricultural College.

To the Agricultural College, alone, has been assigned the collegiate work in all branches of agriculture, irrigation, agricultural engineering, home economics, including domestic science and art, commerce, and mechanic arts. To do properly the work thus assigned, first class departments must be maintained in practically all of the arts and sciences. All the work of the Agricultural College is, however, done with a view to its application in the fields belonging to the College. Moreover, the College is the conservator, as far as an educational institution may be such, of the industrial development of the State, excluding pure engineering and normal work, which are specifically assigned to the University of Utah.
STATE LAWS RELATING TO THE WORK OF THE TWO INSTITUTIONS

2292. Courses of Study in the University. The University, until otherwise provided for by law, shall be the highest branch of the system of public education. As far as practicable its courses and methods shall be arranged to supplement the instruction of the subordinate branches of such system, with a view to afford a thorough education to students of both sexes in the arts, the sciences, literature, and the civil professions, including engineering; but the University must not include in its courses, agriculture, except elementary agriculture as is or may be prescribed in the normal course, horticulture, animal industry, veterinary science, domestic science and art, except as is or may be prescribed in the normal course, and instruction in irrigation as applied to the measurement, distribution, and application of water for agricultural purposes. Approved March 9, 1911.

2087. Courses of Study in the Agricultural College. The courses of instruction in the Agricultural College, until otherwise provided for by law, shall comprise agriculture, horticulture, forestry, animal industry, veterinary science, domestic science and art, elementary commerce, elementary surveying, instruction in irrigation as applied to the measurement, distribution, and application of water for agricultural purposes, for which a degree of engineering in agriculture may be given, military science and tactics, history, language, and the various branches of mathematics, physical and natural science, and mechanic arts, with special reference to the liberal and practical education of the industrial classes. But the Agricultural College shall not give courses in liberal arts, pedagogy, the profession of law or medicine, or engineering, except agricultural engineering. Approved March 9, 1911.

UNIVERSITY OF UTAH-AGRICULTURAL COLLEGE AGREEMENT
Proposition 1

The School of Education of the University of Utah shall give all the courses necessary to prepare teachers and supervisors
in the elementary schools in all subjects taught in these schools; but the University shall not offer the technical work in agriculture and domestic science and domestic art, needed to prepare special teachers of these subjects in secondary schools. The University shall not offer advanced courses in agriculture, domestic science, and domestic arts; it may offer elementary courses in these subjects—high school courses—and educational courses, i.e., the methods of teaching these subjects.

It is understood that in these subjects courses suitable for third and fourth year high school students are also suitable for freshmen and sophomores in the college who have not had these courses. Such courses may be taught in the School of Education of the University, and students of college grade may receive college credit upon completion of these courses.

The Agricultural College shall not offer courses in education, but shall advise all students preparing to teach to come to the State School of Education to receive instruction and training in professional educational subjects. The School of Education shall advise all students wishing to become special teachers of agriculture, domestic science, or domestic arts in high schools to go to the State Agricultural College for their technical work of college grade in these subjects.
Departments of Instruction.*

1. Accounting and Business Practice
2. Agricultural Engineering
3. Agronomy
4. Animal Husbandry
5. Art
6. Bacteriology and Physiology
7. Botany
8. Chemistry
9. Correspondence Studies
10. Domestic Art
11. Economics and Sociology
12. English
13. Farm Management Extension
14. Finance and Banking
15. Food and Dietetics
16. Geology and Roads
17. History
18. Home Construction and Sanitation
19. Home Management Extension
20. Horticulture
21. Junior Vocational Extension
22. Library Work
23. Mathematics
24. Mechanic Arts
   a. Forging and Carriage Building
   b. Machine and Automobile Work
   c. Woodwork and House-building
25. Methods in Experimentation and Extension
26. Modern Languages and Latin
27. Music
28. Physical Education
   a. For Men
   b. For Women
29. Physics and Farm Machinery
30. Political Science
31. Veterinary Science
32. Zoology and Entomology

*All papers of importance must pass thru the department of English before acceptance in any course.
RECITATION TABLE

The recitation periods, commonly known as hours, are fifty minutes in duration and begin at 8:30 a.m. The following table shows the entire schedule:

- 1 hour, 8:30—9:20
- 2 hour, 9:20—10:10
- 3 hour, 10:10—11:00
- 4 hour, 11:00—11:50
- 5 hour, 11:50—12:40
- 6 hour, 12:40—1:30
- 7 hour, 1:30—2:20
- 8 hour, 2:20—3:10
- 9 hour, 3:10—4:00

From 11 a.m. to 2 p.m. the cafeteria, or college restaurant, is open.

The fourth period (from 11 to 11:50 a.m.) is devoted on Wednesdays to chapel exercises, on Fridays to Student Body meetings. Military drill is held on Thursday, 1:00 to 4:00 p.m.

Courses numbered a, b, c, constitute the work of the practical courses and are of high school grade; courses numbered 1, 2, 3, are of college grade.

ACCOUNTING AND BUSINESS PRACTICE

Professor P. E. Peterson
Mr. Thain

a. Elementary Bookkeeping. Thoro drill in the preparation of trading and profit and loss statements and statements of resources and liabilities. Two hours daily throughout the year. Six credits.

11:50 to 1:30
b. BOOKKEEPING AND BUSINESS PRACTICE. A continuation of course a. In the second term the student, on his own initiative, carries on transactions with classmates and the firms represented in the school offices. Since much of this is done by correspondence the work approaches actual business conditions. Three hours daily throughout the year. Ten credits.
11:00 to 1:30 Tu. Th. Sat. and 11:50 to 1:30 Wed. Fri.

c. BOOKKEEPING AND OFFICE PRACTICE. First semester, office methods and the use of the various office appliances; second semester, office practice in the school offices. Three hours daily throughout the year. Ten credits.
11:00 to 1:30 Tu. Th. Sat. and 11:50 to 1:30 Wed. Fri.

d. FARM BOOKKEEPING. For Winter Course students in agriculture. To be taken during two successive winters.

d-1. First winter: a study of double entry bookkeeping. Actual drill in the use of business papers, entries in simple books, and in the preparation of statements.

d-2. Second winter: the student carries thru a farm set, using special books suited to the farm. Three hours daily. Five credits for each course.
11:00 to 1:30 Tu. Th. Sat. and 11:50 to 1:30 Wed. Fri.

e. COMMERCIAL CORRESPONDENCE AND ARITHMETIC. Four sections for Winter Course students.

e-1. Business Spelling. First quarter: the spelling of the common and technical words used in business; acquiring a business vocabulary.


e-4. Business Correspondence. Fourth quarter: business letter writing, correct form, proper English, punctuation, etc. Full course daily throughout the year. Ten credits.
10:10

1-a. BOOKKEEPING TECHNICS. Preparatory to 1-b which it
parallels as a laboratory course. May be taken separately. Two practice periods a week throughout the year: Four credits.
Wed. Fri. 11:50 to 1:30

1-b. PRINCIPLES OF ACCOUNTING. The fundamental principles that the accountant must use, that the manager must know in order to profit from his accounting staff, and that every investor must understand to interpret correctly financial reports. Prerequisite, 1-a or its equivalent. Three hours throughout the year. Six credits.
Tu. Th. Sat. 10:10

2. SYSTEMS OF ACCOUNTS. Leading accounting systems; such as building and loan, insurance, banking, trust companies, creameries, department stores, electric lighting companies, railways, municipal, and executors. Three hours throughout the year. Six credits.
Tu. Th. Sat. 11:00

3. PRACTICAL ACCOUNTING. The working out of published reports and balance sheets, and the solving of practical accounting problems. The case method applied to accounting. Three hours throughout the year. Six credits.
Not given in 1915-16.

4. COST ACCOUNTING. Cost accounting, factory organization, and systematizing. Two lectures and one laboratory period, second term. Three credits.
Not given in 1915-16.

5. CORPORATION AND PARTNERSHIP ACCOUNTS. Training in the handling of problems in partnership and corporation accounting. Three hours, first term. Three credits.
Not given in 1915-16.

6. AUDITING. Auditing and investigations. In addition to theoretical study students audit the accounts of the school offices. Three hours throughout the year. Six credits.
Tu. Th. Sat. 9:20
7. **Household Accounts.** The practical application of accounting principles of the home problems, for students in Home Economics. Two lectures and one three-hour accounting-practice period. Second term. Three credits.
   Wed. Fri. 10:10; lab. Wed. and Fri. 11:50 to 1:30

8. **Farm Accounts.** Cost accounts applied to the needs of the farm. Two lectures and two laboratory periods. First term. Three credits.
   Wed. Fri. 10:10; lab. Wed. and Fri. 11:50 to 1:30
   *See page 132 for stenography and typewriting.*

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**AGRICULTURAL ENGINEERING**

**Professor Harris, Director**

**IRRIGATION AND DRAINAGE**

**Professor R. B. West**

**Mr. Winsor**

1. **Elementary Irrigation and Drainage.** For the student who can give but a limited time to the subject. Lectures on field irrigation and farm drainage. Excursions to irrigation systems and practical drainage operations. Three hours, first term. Three credits.
   Tu. Th. Sat. 9:20

2. **Irrigation Practice.** Agricultural irrigation: methods of handling the water on the land, and the relations between moisture and crops; plant periods especially influenced by moisture,—effect on the yield and composition. Prerequisites, Botany 1 and Agronomy 9. Two lectures and one laboratory period, second term. Three credits. *(See Agronomy 10.)*
   Lec. Th. Sat. 8:30; lab. Fri. 1:30 to 4:00

3. **Farm Drainage.** The laying out and constructing of
drainage systems in arid regions; the drainage of alkali lands. Three hours, first term. Three credits. Prerequisites, Irrigation 1, Plane Surveying.

Wed. and Fri. 11; Tu. lab. 1:30-4

4. **Irrigation Systems.** Irrigation systems as units; the planning and conducting of gravity and pumping projects, forming companies, constructing canal systems, etc. Trips to important irrigation projects of the State. Prerequisites, Irrigation 1, Plane Surveying, Hydraulics, and Rural Architecture 3 and 4. Three hours, second term. Three credits.

5. **Irrigation Management.** Methods of managing irrigation canals: keeping the canal in repair, and properly distributing the water. Especially valuable to water masters. Two hours, first term. Two credits.

6. **Irrigation Institutions and Economics.** The relation of irrigation to various industries and to the country in general; the law regarding the use of water. Two hours, second term. Two credits.

7. **Hydraulics.** The flow of water in natural and artificial open channels, pipes, and flumes; the elementary laws of liquids in motion and at rest; and the elementary principles of water power development. Three hours, second term. Three credits.

Tu. Th. Sat. 8:30

8. **Rainfall and River Flow of the World.** A survey of regions where the rainfall is so light as to require irrigation; the available supply of irrigation water, and the possible methods of increasing that supply by reservoirs, etc. Two hours, one term. Two credits.

9. **Irrigation Designs.** Engineering of water delivery to the land. Design of headgates, flumes in wood and iron, drops, dams, and spillways, etc. Prerequisites, Irrigation and Drainage
7. Rural Architecture 3 and 4. Three hours throughout the year. Six credits.
First term, lec. Tu. Th. Sat. 10:10; second term, lec. Fri. 12:40; lab. Tu. Sat. 1:30
See Farm Mechanics, page 97, for related work.

AGRICULTURAL SURVEYING
Professor R. B. West

1. Farm Surveying. For students of agriculture. Practice in the handling of surveying instruments, in the running of land and ditch lines, in the grading and leveling of land, the making of profiles and the laying out of tile drains. One recitation, two laboratory periods, throughout the year. Six credits.
Lec. Wed. 12:40; lab. Wed. Fri. 1:30 to 4:00

2. Canal and Road Surveying. Instruction and practice in the application of the surveying methods used in the laying out and construction of canals and roads. Three hours, one term. Three credits. Prerequisite, Surveying 1.

3. Soil and Other Agricultural Surveys. The methods of preparing maps of a given agricultural area, and surveys of the various agricultural interests within the area. Three hours, one term. Three credits.

4. Mapping. Practice in the mapping of the various kinds of surveys that may be encountered by the agricultural engineer. Two laboratory periods a week. Two credits. Second term.
Lec. Fri. 12:40; lab. Tu. Sat. 1:30 to 4:00.

RURAL ARCHITECTURE
Professor R. B. West

1. Farm Structures. The arrangement, design, and construction of barns, stables, poultry houses, silos, etc. Three hours, first term. Three credits.
Tu. Th. Sat. 8:30
2. Farm Homes. Arranging and planning houses suited to and within the reach of the ordinary farmer. Three hours, second term. Three credits.

3. Materials of Construction. The chemistry of iron, steel,—the alloys, etc., and their special use in machine parts; strength, composition, and proper use of the woods, plaster, glass, glue, paints, cement, brick, etc., in building. Three hours, first term. Three credits.

   Tu. Th. Sat. 11:50

   See Technology of Mechanic Arts 7.


   Tu. Th. Sat. 11:50

5. Concrete Construction for Agricultural Purposes. Various mixtures of cement and their uses; the use of concrete in the making of barns, water troughs, posts, etc. Two hours, second term. Two credits.

   Lec. Wed. 10:10; lab. Tu. Th. 1:30 to 4

6. Reinforced Concrete. The design of beams, columns, and floor slabs in reinforced concrete, and the application of the principles of design to retaining walls, cisterns, etc. Three credits.

7. Drafting. Drawing plans for buildings, including detailed drawings of parts, cross sections, etc. The technique of drafting. Three hours, one term. Three credits.

8. Planning of Farm Structures and Homes. The making of plans for farm buildings, including complete specifications, cost of materials, and erection. Time and credit to be arranged with instructor.
9. House Building and Contracting. Various methods of construction: the frame, two brick, three brick, stucco, shingle, cement block, and stuccoed hollow tile; cost and economy of each; interior finishing. Three hours throughout the year.

Tu. Th. Sat. 12:40
See Technology of Mechanic Arts 5.

RURAL SANITATION

Professor Titus
Professor Greaves
Mr. Hagan

1. Civic Health. (Zoology 10.) The sanitary necessities of a community: improvement of the city waste disposal; the spread of contagious diseases. Each student scores a town on sanitation and cleanliness; compiles data from his notes; and submits a complete report. Three lectures, second term. Three credits.

Tu. Th. Sat. 9:20

2. Parasitology. (Zoology 9.) Structure and life history of animal parasites. Special attention given to insects and related animals that carry organisms injurious to man and the domestic animals. Three lectures, first term. Three credits.

Tu. Th. Sat. 9:20

3. Sanitation. (Bacteriology a.) Principles of sanitation; nature of disease, its spread and means of prevention and disinfection; sanitary arranging and construction of farm buildings. Three lectures, first term. Three credits

4. Sanitary Analyses. (Bacteriology 6.) Methods of making chemical and bacterial analyses of water, milk, etc., for sanitary purposes. Prerequisites, chemistry 1 and bacteriology 1. One lecture and two laboratory periods, one term. Three credits.

5. Dairy Bacteriology. (Bacteriology 5.) The dairy
bacteriology of milk, butter and cheese; infectious diseases in relation to the dairy; contamination by air, water and utensils; desirable and undesirable fermentations. Prerequisite, Bacteriology 1 or Sanitation 3. Lectures and laboratory periods, first term. Three credits.

6. **Rural Water Supply and Waste Disposal.** Methods of (a) supplying farm and rural communities with sanitary water; (b) handling waste of the farm and small towns. Three lectures, one term. Three credits.

7. **Disease Prevention.** Lectures by competent physicians and others upon rural conditions. Two lectures, first term. Two credits.

8. **Sanitary Statistics.** Vital statistics showing the effects of sanitary precautions upon health in cities and rural communities. Methods of gathering statistics. Two lectures, one term. Two credits.

**AGRICULTURAL TECHNOLOGY**

**Professor Porter**

1. **Manufacture of Agricultural Products.** The processes of manufacturing beet sugar, starch, soap, vinegar, alcohol, molasses, commercial fertilizers, paper, turpentine, cement, and glass. Special attention given to Utah factories and to industries that could profitably be developed here. Visits to several factories. Prerequisites, Chemistry 1 and 3. Three hours, second term. Three credits.

   Wed. Fri. 12:40

2. **Manufacture of Beet Sugar.** The practical ways of obtaining sugar from the beets; factory methods from the standpoint of the student going into sugar factory work; the chemical means of determining the acidity, alkalinity, and purity of the
juice in various states, and the estimates of sugar by the polariscope. Prerequisites, Agricultural Technology 1 and Chemistry 2. Two lectures and one laboratory period, first term. Three credits.

Wed. Fri. 11:50

3. MILLING AND CANNING INDUSTRIES. Two lectures and one laboratory period, second term. Prerequisites, Agricultural Technology 1 and Bacteriology 1. Three credits.

AGRONOMY

PROFESSOR HARRIS
MR. STEWART
MR. MAUGHAN
MR. BUTT

a. ELEMENTARY AGRONOMY. Practical information on crops and soils for short practical-course students. Lectures, recitations, and laboratory work. Four hours, first term. Four credits.

Lec. Tu. Th. Sat. 9:20; lab. Wed. 1:30 to 4:00

1. CEREAL CROPS. The history, cultivation, production, and marketing of cereal crops; a basis for judging plant products. First term. Three Credits.

Lec. Wed. Fri. 10:10; lab. Tu. 1:30 to 4:00

2. FORAGE, ROOT, AND MISCELLANEOUS CROPS. Alfalfa, clovers, grasses, sugar-beets, potatoes, and other crops. Plants and their products are studied in detail; field trips. Second term. Three credits.

Lec. Wed. Fri. 10:10; lab. Tu. 1:30 to 4:00

3. SEEDS AND WEEDS. Seeds and their impurities; quality and preservation of seeds; their storage, shrinkage, vitality, etc.;
the common weeds of Utah; methods of identifying and eradicating them; field work. One laboratory and two class periods each week, first term. Three credits. Prerequisites, Botany 1 and Agronomy 1.

*Alternates with Agronomy 4.*

Lec. Tu. Th. 11:00; lab. Fri. 1:30 to 4:00

4. **Judging Market Types of Crops.** The various methods of scoring grains and other crops; judging crops and identifying varieties; types demanded by the market. Two classes and one laboratory period each week, first term. Three credits. Prerequisites, Agronomy 1 and 2.

*Alternates with Agronomy 3. Not given in 1915-16.*

5. **Soils.** Review of the entire field of soil study, designed as a foundation course for all students of agriculture. Prerequisite, Chemistry 1. Three hours, first term. Three credits.

Lec. Wed. Fri. 9:20; lab. Wed. 1:30 to 4:00

6. **Management of Arid Soils.** The composition, nature, and management of soils of arid regions; special attention to water relations, alkali, rotations, manures, tillage, and other problems of soil management met in handling arid soils. Prerequisite, Agronomy 5. Three hours, second term. Three credits.

Lec. Wed. Fri. 9:20; lab. Wed. 1:30 to 4:00

7. **Comparative Soils.** Soils of the world: their origin, composition, and agricultural value; soil provinces of the United States, especially those of the arid regions; the soils of Utah, the crops adapted to them, and their treatment. Prerequisite, Agronomy 5 and 6. Two hours, second term. Two credits.

*Not given in 1915-16.*

8. **Advanced Laboratory in Soils.** Chemical and mechanical analysis or special laboratory work. Two hours or more, either term. Credits according to work.

9. **Dry-Farming.** The methods best adapted to the grow-
ing of profitable crops on arid lands; the treatment of the soil; the soils and crops best adapted to arid-farming; and the regions offering favorable conditions for its successful practice. Three hours, first term. Three credits.

Tu. Th. Sat. 8:30

10. Irrigation Practice. See Irrigation and Drainage 2.
Lec. Th. Sat. 8:30; lab. Fri. 1:30 to 4:00.

11. Farm Management. The selection and laying out of a farm, the kind of farming for a given locality, the proper balance between the various activities of the farm, the rotation of crops, etc. The facts learned in the various technical courses applied to a rational system of farming. Prerequisites, economics and as many courses as possible in agronomy, animal husbandry, and horticulture. Three hours, second term. Three credits.
Lec. Tu. Th. 11:00; lab. Wed. 1:30 to 4:00

12. Seminar. Current agronomic literature; agricultural problems; assigned topics. Required of seniors in agronomy; open also to juniors. One hour throughout the year. Two credits.
Sat. 11:00

13. Research. Seniors specializing in agronomy may elect research work in any branch of the subject. Time and credit to be arranged with instructor.

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ANIMAL HUSBANDRY

Professor J. T. Caine III
Professor Carroll
Assistant Professor Alder
Assistant Professor G. B. Caine
Mr. Egbert

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. Two class and two laboratory periods, second term. Four credits.
Prerequisite for all other courses in animal husbandry except 3 and 4.

This course may be taken by students in short practical courses.

Lec. Wed. Fri. 10:10; lab. Wed. Fri. 11:50 to 1:30

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. Three lectures thruout the year. Six credits.

Tu. Th. Sat. 9:20

3. ANIMAL NUTRITION. The anatomy and physiology of the digestive system; the purpose of nutrition; the theory and practice of feeding, with especial reference to Utah conditions. Prerequisite, Organic Chemistry or Veterinary Physiology. Three lectures thruout the year. Six credits.

Tu. Th. Sat. 8:30

4. 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; and pedigrees of noted individuals of the important breeds. Prerequisite, Zoology 3. Three lectures, second term. Three credits.

Tu. Th. Sat. 10:10

5. 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. Two laboratory periods, first term. Two credits.

Wed. Fri. 1:30 to 4:00

6. BEEF CATTLE MANAGEMENT. The practical methods of beef production, including a consideration of range practice, feed-
ing for market, fitting for show, and general care and management. Two class periods, first term. Two credits.

Wed. Fri. 8:30

Not given in 1915-16.

7. **Horse Management.** Market types, handling of breeding and growing horses, fitting for show and sale, and practical methods of handling and training horses. Two class periods, second term. Two credits.

Wed. Fri. 9:20

8. **Swine Management.** The management of the breeding herd, fattening for market, and fitting for show. Two class periods, first term. Two credits.

Wed. Fri. 9:20

9. **Sheep Management.** General care on range and farm, fattening for market, fitting for show, and work in grading and sorting wool. Two class periods, second term. Two credits.

Wed. Fri. 9:20

Not given in 1915-16.

25. **Seminar.** Round-table discussions of current literature and special phases of animal husbandry and dairying by advanced students and instructors of the department.

Sat. 11.

See Dairying, page 80, for related work.

**POULTRY HUSBANDRY**

**Assistant Professor Alder**

**Mr. Egbert**

1. **General Poultry.** Breeds, judging, breeding, incubation, brooding, housing, feeding and marketing. Two recitations and one laboratory period, first term. Three credits.

Lec. Wed. Fri. 8:30; lab. Tu. 1:30 to 4:00

2. **Incubation and Brooding.** Practical and experimental work: the factors which influence the hatching quality of eggs,
before and during incubation. Prerequisite, Poultry 1. Two recitations, second term. Two credits.

Wed. Fri. 8:30

3. Poultry Management. The housing, care, feeding and management of different breeds, under Western conditions. Prerequisites, Poultry 1, and Chemistry 1. One recitation, and laboratory work by special appointment. Credit according to work done.

4. Breeds and Breeding. The origin and development of the more important breeds and varieties of poultry; practice in judging; a review of the literature on breeding for utility and exhibition. Prerequisites, Poultry 1, Zoology 2 and 3. Two recitations and one laboratory period. One term. Three credits.


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DAIRYING

Professor Carroll
Assistant Professor G. B. Caine
Mr. Bingham

1. Elements of Dairying. The secretion and composition of milk; testing for fat, acid, and adulterants; dairy sanitation; pasteurization; separation; making of butter and cheese. Prerequisite, Chemistry 1. Two lectures and one laboratory period, second term. Three credits.

Lec. Wed. Fri. 8:30

3. Dairy Farm Management. A brief review of breeds of dairy cows; starting a herd. Each student submits an original plan of a dairy farm, estimating values of property, expense of
operation, and profits to be derived. Prerequisite, Animal Husbandry 2. Two lectures throughout the year. Two credits.

Tu. Th. 11:00

4. **Buttermaking.** Designed to meet the needs of creamery men. Prerequisite, Dairying 1. One lecture and two laboratory periods throughout the year. Six credits.

5. **Cheesemaking.** For cheese factory operators; the manufacture of the different kinds of cheese. Prerequisite, Dairying 1. One lecture, and one laboratory period of six hours throughout the year. Six credits.

7. **Research Work.** Important dairy subjects; a digest of recent dairy work of the experiment stations. For advanced students. One hour throughout the year. Two credits.

*See Animal Husbandry, page 77, for related work.*

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**ART**

**Calvin Fletcher, Professor of Applied Art**

**J. S. Powell, Professor of Fine Art**

**FINE ART**

1. **Free Hand Drawing.** Nature study visualization, arrangement, and composition. Three two-hour periods a week, first term. Two credits. Prerequisite to Applied Arts 21.

   Wed. Fri. 8:30 to 11:00

2. **Free Hand Drawing.** For students in mechanic arts. Three two-hour laboratory periods throughout the year. Four credits.

   Tu. Th. Sat. 8:30 to 10:10

3. **History of Art.** Lantern-slide lectures on the evolution and development of painting, sculpture, and architecture. Three lectures, first term. Three credits.

   Tu. Th. Sat. 10:10 to 11:00
   Tu. Th. Sat. 10:10 to 11:00

5. Studio. Before registering students must consult with instructor in charge.
   Daily, 1:30 to 4:00

Sec. 1., one credit; sec. 2, two credits; sec. 3, three credits; (three hours in studio for one credit). Students may elect more than one section.

5A. Drawing from antique, animal life, still life, and ornament.

5B. Painting in oil, water color, or pastel from still life, landscape, animals, and the draped figure.

5C. Sculpture. Modeling in wax and clay, and casting in plaster; from ornament, antique, and life.

5D. Book, magazine, and newspaper illustration, including cartooning and caricature.

5E. Illustration for advertising. Designing posters and pictorial advertisements for newspapers, magazines, etc. Criticism of such work. Art 27G must accompany or precede this course for at least one term.

5F. Illustration for scientific purposes, conjointly with the departments of agronomy, botany, entomology, etc.

5G. Pictorial composition and critical judgment of pictures. Adapted to the layman, the photographer, and the painter.
   Daily, 1:30 to 4:00

APPLIED ART

21. Continuation of Art 1, with special attention to pattern design and design for art needlework. Two laboratory periods, second term. Two credits.
   Wed. Fri. 8:30 to 11:00
22. Household furnishing, and design as related to household objects. Lectures and demonstrations with applications in stenciling, block-printing, simple needle craft, and painting; the whole question of beauty as related to the smaller home. Three lectures and two laboratory periods throughout the year. Ten credits.
   Lec. Tu. Th. Sat. 11:50; lab. Wed. Fri. 11:50 to 2:20

23. History and development of the house, its furniture and furnishings. Two lectures throughout the year. Four credits.
   Wed. Fri. 12:40

24. Costume history and design. Modeling of historic costume in cheap textiles, and design of present day fashions. Two laboratory periods throughout the year. Four credits.
   Wed. Fri. 8:30 to 11:00

25. Interior design and decoration. For tradesmen. Wall tinting and decoration, house painting, wood finishing, paper hanging, furnishing and draping. Hours and credit to be arranged.

26. Furniture and ornamental metal design. Students may emphasize either according to special interests. Six hours per week throughout the year. Four credits.
   Tu. Th. Sat. 8:30 to 10:10

27. Studio. Hours and credits must be arranged with the instructor in charge.

   Sec. 1, one credit; sec. 2, two credits; sec. 3, three credits; (three hours in studio for one credit). Students may elect more than one section.

   27A. Pottery, including throwing, building, turning, casting, glazing, and decoration.

   27B. China decoration and design, including tinting,grounding, gold work, lustre, enameling, firing, etc.

   27C. Copper, brass, and silver smithing. The underlying principles of metal treatment, including raised forms, soldering, repousse, engraving, and enameling.
27D. Jewelry. Making of simple jewelry involving the principles of stone setting, hard soldering, enameling, engraving, repousse, etc.

27E. Basketry, weaving, and bead work.

27F. Leather work, including tooling and modeling, etching, piercing, applique, inlay, dyeing, etc.

27G. Show card and sign writing.

27H. Advanced fabric decoration, combining block printing, stenciling, and needle craft.

27I. Wood ornamentation, including carving, inlay, jesso work, and staining.

27J. Architectural Composition. The study of architectural styles and composition of exterior and interior details and landscape gardening.

27K. Advanced design for craft or commercial purposes.

Daily, 8:30 to 10:10 and 1:30 to 4:50

Note—One or more examples of each student's work may be retained by the department, but materials furnished by the student are paid for. For special trade courses in Art see page 58.

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BACTERIOLOGY

Professor Greaves

Mr. Smith

a. SANITATION. Principles of sanitation; nature of disease, nature of its spread and means of prevention and disinfection, actors of typical forms, quantitative and qualitative methods of Three lectures, first term. Three credits.

Tu. Th. Sat. 8:30
1. **GENERAL BACTERIOLOGY.** The preparation of media, sterilization, staining, classification, general biology, cultural characters of typical forms, quantitative and qualitative methods of examination; function, distribution, cultivation and isolation of important forms. The relationship of bacteria to the various phases of agriculture. Two lectures and two laboratory periods. Four credits.

   First term. Wed. Fri. 11:50; lab. Wed. Fri. 1:30 to 4:00
   Second term. Wed. Fri. 8:30; lab. Wed. Fri. 1:30 to 4:00

2. **HOUSEHOLD BACTERIOLOGY.** Bacteria in milk, water, and other foods; milk and water contamination; effects of cooling and pasteurization upon milk; yeasts, molds, and fermentation; canning and preserving; action of disinfectants. Two lectures and two laboratory periods, first term. Four credits.

   Lec. Wed. Fri. 8:30; lab. Tu. Sat. 1:30 to 4:00

3. **PATHOGENIC BACTERIOLOGY.** Fundamentals: morphology, biology, function, etc.; the principles of applied bacteriology. Disease-producing organisms. Two lectures and one laboratory period, second term. Three credits.

   Lec. Wed. Fri. 11:50; lab. Sat. 1:30 to 4:00

4. **SOIL BACTERIOLOGY.** To fit the student for investigation. Relation of depth, moisture, character of soil temperature, chemical reaction, and aeration to bacterial life; ammonification, nitrification, denitrification, etc. Chemical methods of interpreting bacterial fermentations. Prerequisite, Bacteriology 1. Laboratory work, lectures and reports. Six hours, second term. Three credits.

   *Not given in 1915-16.*

5. **DAIRY BACTERIOLOGY.** The bacteria of milk, butter, and cheese; infectious diseases in their relation to the dairy, contamination by air, water, and utensils; desirable and undesirable fermentations. Prerequisite, Bacteriology 1. Laboratory work, lectures and reports, first term. Three credits.

   Wed. Fri. 1:30 to 4:00
6. **Sanitary Analysis.** Methods of making chemical and bacterial analyses of water, milk, etc., for sanitary purposes. Prerequisites, Chemistry ..., and Bacteriology ... One lecture and two laboratory periods, one term. Three credits.

7. **Research.** The laboratory and library facilities 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. *See Physiology and Physiological Chemistry, page 129, for related work.*

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**BOTANY**

**Professor Hill**  
**Mr. Richards**  
**Mr. Wilson**

1. **General Botany.** The nature and function of plant structure; types of plants. Two lectures and two laboratory periods throughout the year. Eight credits.  
*Prerequisite for all other courses in botany.*

- **Sec. 1.** Lec. Wed. Fri., 8:30; lab. Wed. Fri., 1:30 to 4:00  
- **Sec. 2.** Lec. Wed. Fri., 10:10; lab. Tu. Sat., 1:30 to 4:00  
- **Sec. 3.** Lab. Wed. Fri., 11:50 to 1:30  
- **Sec. 4.** Lab. Th. Sat., 11:00 to 1:30

2. **Flowering Plants.** Our common plants and their relationships; special emphasis upon economic plants. One lecture and two laboratory periods, second term. Three credits.  

- **Lec. Tu.** 11:00; lab. Th. Sat., 11:00 to 1:30

3. **Anatomy, History and Histological Technique.** One lecture and two laboratory periods, first term. Three credits.  

- **Lec. Tu.** 11:00; lab. Th. Sat., 11:00 to 1:30

4. **Plant Physiology.** Two lectures and two laboratory
periods throughout the year. Eight credits. (Chemistry 2 should accompany this course.)

Lec. Wed. Fri. 9:20
Sec. 1. Lab. Tu. Sat. 1:30 to 4:00
Sec. 2. Lab. Wed. Fri. 11:50 to 1:30

5. **Plant Pathology.** The history, nature, cause and control of plant diseases. One lecture and two laboratory periods throughout the year. Six credits.

Lec. Wed. 1:30; lab. Wed. Fri. 1:30 to 4:00

6. **Economic Botany.**

Not given in 1915-16.

7. **Ecology.** The relation of temperature, moisture, light, soil, and the other environmental factors to vegetation. Two lectures. Two credits.

Not given in 1915-16.

8. **Crop Ecology.** The relation of environment to crop production. Two credits.

Not given in 1915-16.

9. **Forestry.** Two lectures throughout the year. Four credits.

Wed. Fri. 8:30

10. **Seminar.** For advanced students. A review of current literature. One hour a week. Two credits.

Tu. 1:30

11. **Research.** For juniors and seniors in botany. Credit according to time.

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**CHEMISTRY**

Professor Porter
Assistant Professor
Assistant Professor Hirst
Mr.

1. **General Chemistry.** Fundamental theories. Special emphasis upon the applications of chemistry to agriculture and
home economics. Three recitations and two laboratory periods throughout the year. Ten credits.

Sec. 1. Lec. Tu. Th. Sat. 11:00; lab. Tu. Sat. 1:30 to 4:00
Sec. 2. Lec. Tu. Th. Sat. 11:50; lab. Wed. Fri. 1:30 to 4:00

2. Organic Chemistry. The more important compounds of the fatty and aromatic series of hydrocarbons and their derivatives. The chemistry of fats, the carbohydrates, the proteins, the amino acids, and the dyes. Three recitations and two laboratory periods throughout the year. Ten credits. Prerequisite, Chemistry 1.

Sec. 1. Lec. Tu. Th. Sat. 8:30; lab. Wed. Fri. 1:30 to 4:00
Sec. 2. Lec. Tu. Th. Sat. 9:20; lab. Tu. Sat. 1:30 to 4:00

3. Advanced Organic Chemistry. The compounds of carbon from the point of view of Synthetic organic chemistry; for students who intend to study medicine or to make chemistry a profession. Two recitations and two laboratory periods throughout the year. Eight credits. Prerequisite, Chemistry 2.

4. Advanced Qualitative Analysis. A laboratory course. Two laboratory periods and one recitation throughout the year. Six credits. Prerequisites, Chemistry 1.

Rec. Wed. 11:50; lab. Wed. Fri. 1:30 to 4:00

6. Quantitative Analysis. Analysis of various products: milk, butter, etc. Three laboratory periods throughout the year. Six credits.

Tu. Wed. Sat. 1:30 to 4:00

7. History of Chemistry. Two lectures a week throughout the year. Four credits.

Wed. Fri. 10:10

8. Industrial Chemistry. Lectures and assigned reading on the manufacture of sulphuric acids, soda, commercial fertilizers, lime and cement, glass and porcelain, etc. Prerequisites, Chemistry 1 and 2. Three hours throughout the year. Six credits.

9. Research. The laboratories of the College and Experiment Station are open to qualified students for independent study.
The research carried on by the Chemistry department of the Experiment Station is of great aid in the solution of scientific problems. Time and credit to be arranged with the instructor.

10. **Special Courses in Quantitative Analysis.**
   a. Water Analysis  
   b. Food Analysis  
   c. Soil Analysis  
   d. Urine Analysis  
   e. Gas Analysis  

11. **Seminar.** Members of the chemical faculty and seniors in Chemistry meet weekly to discuss assigned problems.

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**DOMESTIC ART**

**Assistant Professor Cook**  
**Miss Richardson**

c. **Dressmaking.** The making and use of patterns and the choosing and economical cutting of materials. Each student makes a shirt and a waist of woolen or silk, and a fitted lining. Prerequisites, first-year high school sewing and Art 2. Eight hours, first term. Three credits.  
Tu. Wed. Th. Sat. 9:20 to 11:00

d. **Dressmaking.** A continuation of course c. Each student fits and finishes a one-piece gown. Eight hours, second term. Three credits.  
Tu. Wed. Th. Sat. 9:20 to 11:00

e. **Practical Sewing.** The fundamental principles of hand and machine sewing; the care and use of different makes of machines; the drafting of patterns; and the use of bought patterns.
Each student makes an apron, a suit of underwear, and a wash dress. Eight hours throughout the year. Six credits.

1. **Art Needle Work.** The application of color and design to textiles; the fundamental stitches of needlework; the marking of household linen; French embroidery; the designing and making of a sofa pillow cover or table runner. Prerequisites, Art 2 and 4. Six hours, first term. Two credits.
   Tu. Th. Sat. 11:50 to 1:30

2. **Art Needle Work.** A continuation of course 1. Six hours, second term. Two credits.
   Tu. Th. Sat. 11:50 to 1:30

3. **Advanced Dressmaking.** Materials; their economic, artistic, and hygienic values; history of costume; modeling in paper and crinoline from copies and original designs; the making of two costumes. Prerequisites, Domestic Art c and d, and Art 4. Lectures and laboratory work. Six hours throughout the year. Six credits.
   Sec. 1. Lec. Wed. 9:20 to 11:00; lab. Wed. Fri. 11:50 to 1:30
   Sec. 2. Lec. Fri. 9:20 to 11:00; lab. Wed. Fri. 2:20 to 4:00

4. **Millinery, Elementary.** Designing and drafting patterns for hats; construction of frames of buckram, rice net, or wire; the covering and furnishing with velvet, silk, nets, straws, etc. Selection of materials as to suitability and durability. Renovating. Four hours throughout the year. Four credits.
   Sec. 1. Wed. Fri. 12:40 to 2:20; Sec. 2. Tu. Th. 1:30 to 3:10

5. **Designing and Modeling.** Line and design as adapted to various figures; copying of designs in crinoline or cambric; modeling and working out of original designs in correlation with Art 13. Prerequisites, Domestic Art 3, Art 2 and 4. Lectures and laboratory work. Four hours throughout the year. Four credits.
   Tu. Th 2:20 to 4:00 (Lab. fee $2)

6. **Advanced Millinery.** Demonstrative discussions and
practical work. Four hours throughout the year. Four credits.  
Laboratory fee of $1.)  
Wed. Fri. 2:20 to 4:00  
Lines and color combinations most suited to the individual.  
The draping and trimming of hats. The care, placing, and sewing on of ostrich feathers. Prerequisites, Art 2 and 4, and Domestic Art 4.

7. TEXTILES. The beginning of the textile industry; textile fibres under the microscope; adulteration; the effect of laundry reagents on textiles. Prerequisites, Chemistry 2, and Economics 2. Two laboratory periods, first term. Three credits.  
Tu. Th. Sat. 11:50 to 1:30

8. TEXTILES. (Advanced course.) A continuation of course 7. The economic problems involved in the purchase of textiles, and a complete quantitative chemical analysis of wool, cotton, silk, and linen fabrics. Second term. Prerequisite, Domestic Art 7.  
Tu. Th. Sat. 11:50 to 1:30

9. SURVEY. A critical review of domestic art as given in other institutions. Three hours, second term. Three credits.  
Tu. Th. Sat. 10:10

10. FULL TIME COURSE IN DRESSMAKING. Thoro and practical training for seamstresses or dressmakers. Classes are organized in September, November, February, and April, and continued for nine consecutive weeks. Daily sessions from 9 a.m. to 12 a.m., and from 1 to 5 p.m. All applicants should be at least sixteen years of age and know plain hand and machine sewing. Fee, $10.

The instruction consists of the selecting of materials; the making of one house dress or shirt-waist suit; and the drafting and designing of skirts, waists, children’s clothing, modeling in paper and crinoline, etc.; design and simple hand decoration; draperies; textures for the reception and evening dress; and the complete making of at least four one-piece gowns.
ECONOMICS

PROFESSOR THOMAS
PROFESSOR HENDRICKS
MR. BROOKE

1. ELEMENTS OF ECONOMICS. The laws of man's economic activity, as the basis of a scientific understanding of industrial conditions. Topics: economic want, value, rent, wages, profits, interest. Three hours throughout the year. Six credits.
   Tu. Th. Sat. 9:20

2. GENERAL ECONOMICS. Practically the same subjects as Economics 1, treated more thoroughly. Three hours throughout the year. Six credits.
   Sec. 1. Tu. Th. Sat. 10:10; Sec. 2. Tu. Th. Sat. 11:00

3. HISTORY OF COMMERCE. Its development in Egypt, Greece, Rome, Florence, Medieval Europe; the commercial nations of modern times. Three hours throughout the year. Six credits.

4. MARKETING OF PRODUCTS. The methods now practiced in the organization of the selling branch of industrial and merchandising business. Subjects: publicity, agency, advertising, forms and correspondence, credits, and discounts. Three hours, second term. Three credits.
   Tu. Th. Sat. 9:20

5. INDUSTRIAL RESOURCES. The resources of the United States, with special emphasis on Western agricultural, pastoral, mineral, and soil and water resources. First term. Two credits.
   Wed. Fri. 9:20

9. ADVERTISING. The channels of trade and the circulation of newspapers; the literature and typography of advertising; the advertisements of newspapers and magazines. Two recitations a week. Practical work in the Art department, second term. Six credits.
   Wed. Fri. 9:20
12. **Agricultural Economics.** The economic principles of farm management, estate management, and agrarian legislation, especially adapted to Western conditions. Three hours, first term. Three credits. Prerequisite, Economics 1 or 2.
   Tu. Th. Sat. 11:50

15. **A Research Course in Economics.** Time and credit to be arranged with the instructor.

16. **College Economic Readings.** Discussion of current economic literature. One credit, each term. Open to juniors and seniors.

   *See Sociology, page 132, for related work.*

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**ENGLISH**

**Professor Pedersen**  
**Assistant Professor Ogburn**  
**Miss Huntsman**  
**Miss Kyle**

*Papers written by students for other departments constitute a large part of the theme work required in courses in English.*

a. First year high school English: oral and written composition; classics. Five hours throughout the year. Ten credits.  
   Daily, 8:30

b. **Composition and Classics.** Second year high school English. Five hours throughout the year. Ten credits.  
   Daily, 9:20

c. Third year high school English. Study of classics; oral
and written composition. Three hours throughout the year. Six credits.
    Tu. Th. Sat. 10:10

6. HISTORY OF ENGLISH LITERATURE. The literature of Great Britain from the Anglo-Saxon period to the present day, with emphasis upon the post-Elizabethan period. Three hours throughout the year. Six credits.
    Sec. 1. Tu. Th. Sat. 9:20
    Sec. 2. Tu. Th. Sat. 11:50

7. RHETORIC.
    Sec. 1. Business English. (8:30 Wed. Fri.)
    Sec. 2. Descriptions, narratives, stories. (9:20 Wed. Fri.)
    Sec. 3. Outlining, note-taking, writing of reports and papers. (10:10 Wed. Fri.)
    Prerequisite, English 6. Two hours throughout the year. Four credits.

8. ADVANCED COMPOSITION. Designed to develop the writer in the field of his choice; grammatical and rhetorical details. Prerequisite, English 7. Two hours throughout the year. Four credits.
    Wed. Fri. 8:30
    *Not given in 1915-16.*

N. B. Prerequisite for all the following courses, except 22 and 24, English 6 and 7. Prerequisite, in addition, for 9, 10, 11, 13, 15, 19, and 25, one year of French or German.

9. MODERN LITERATURE. Recent plays, essays, and novels dealing with present problems. Six credits.
    Wed. Fri. 9:20

    Tu. Th. Sat. 10:10
11. The Modern Drama. The stage of today,—recent and living dramatists. Two hours thruout the year. Four credits.
   Wed. Fri. 12:40
   Not given in 1915-16.

   Not given in 1915-16.

13. The English Novel. Its origin, development, and most important types. Two hours thruout the year. Four credits.
   Tu. Th. Sat. 12:40
   Not given in 1915-16.

15. A brief study of some world masterpieces. Two hours thruout the year. Four credits.
   Wed. Fri. 11:50

   Tu. Th. Sat. 9:20

20. Debating. Two hours thruout the year. Four credits.
   Wed. Fri. 12:40

   Tu. Th. Sat. 12:40

23. Advanced Elocution. The interpretative study of masterpieces. Two hours thruout the year. Four credits.
   Wed. Fri. 12:40

24. Public Speaking. Training in the various forms of public address. Three hours thruout the year. Six credits.
   Tu. Th. Sat. 11:50

25. Journalism. Magazine and newspaper writing; college journalism. Two hours thruout the year. Four credits.
   Prerequisite, English 7.
   Wed. Fri. 11:50

See modern languages for related work.
ENTOMOLOGY

Professor Titus
Mr. Hagan

1. **Economic Entomology.** A general knowledge of insects and their relation to man and his products as well as the best means of controlling injurious insects. Three hours, second term. Three credits.
   Tu. Th. Sat. 12:40

2. **Systematic Entomology.** Structure and classification of insects. Laboratory work: dissecting, and classifying insects that have been collected, mounted, and identified by the students. Two lectures and one laboratory period throughout the year. Six credits.
   Lec. Wed. Fri. 10:10; lab. Tu. 1:30

3. **Economic Entomology.** Full treatment of insects of the intermountain region, and of methods of control used in this and other regions with their results. Two lectures and one laboratory period. Three or six credits.
   Lec. Wed. Fri. 12:40; lab. Wed. 1:30

4. **Entomological Literature.** Each student investigates the literature on some particular insect. The general history of entomology is covered. Prerequisite, Entomology 2 or 3. Three lectures throughout the year. Six credits.
   *Alternates with Entomology 5.*

5. **Advanced Entomology.** Research for students intending to teach or to go into government or experiment-station work. A thesis on the classification and general economic consideration of some special group is required. Prerequisite, Entomology 2 or 3. Three to six credits.
   Wed. Fri. 9:20
   *Alternates with Entomology 4.*
   *See Zoology, page 135, for related work.*
FARM MECHANICS

Professor F. L. West
Assistant Professor Humpherys

a. Farm Motors. Steam and gasoline engines, and electric motors. *Winter course.*


1. Farm Machinery. Farm, pumping, concrete, fruit grading, and general labor saving machinery. Two recitations and one laboratory period, first term. Three credits.

   Lec. Wed. Fri. 11:50; lab. Wed. or Fri. 1:30 to 4:00

2. Farm Motors. The design, operation, adjustment and care of types of gasoline and steam engines. Two lectures and one laboratory period, second term. Three credits.

   Lec. Wed. Fri. 11:50; lab. Wed. or Fri. 1:30 to 4:00


4. Farm Appliances. The fundamental principles of babbiting, soldering, pipe fitting, tube-setting for steam boilers, packing valves, rope splicing, and belt lacing. One recitation and one laboratory period, first term. Two credits.

   Lec. Wed. 8:30; lab. Sat. 1:30 to 4:00

See Agricultural Engineering, page 69, and Physics, page 128, for related work.
FINANCE AND BANKING

Professor Hendricks
Professor Thomas
Mr. Brooke

1. Money. A general survey of the laws and forms of money and credit; the money question; the money market; experience and legislation of recent times. Three hours, first term. Three credits.

*Not given in 1915-16.*


*Not given in 1915-1916.*


Tu. Th. Sat. 12:40

4. Taxation. The methods of federal and state taxation, including the customs and internal revenue duties; income, business, inheritance, general property and corporation taxes. Three hours, second term. Three credits.

Tu. Th. Sat. 12:40

5. Corporation Finance. Corporate incomes, expenditures, debts, and administration; the laws governing the growth of corporations, and the relation to the State. Three hours, first term. Three credits.

Tu. Th. Sat. 8:30

6. Financial and Economic History of the United States. The principal events of our political life and their economic causation; the history of the tariff, money and banking,
agriculture, manufacturing, etc. Three hours throughout the year. Six credits.
Tu. Th. Sat. 10:10

7. **Railway Transportation and Practice.** The development of the railway system, railway finance, railway statistics; the theory of rates, methods of public control in Europe, Australia, and America. Three hours, second term. Three credits.
Tu. Th. Sat. 8:30

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**FOODS AND DIETETICS**

**Assistant Professor Saunders**

**Professor Wilkinson**

a. **Elementary Cooking.** Two laboratory periods throughout the year. Four credits.

Wed. Fri. 1:30 to 4:00

1. **Preparation of Foods and Food Study.** Cookery and food stuffs: general principles of food preparation, methods of cooking, effect of heat upon foods, food selection, composition, food values and cost, and the preparation and serving of simple meals. Prerequisite or parallel, Chemistry 1. Two lectures and one laboratory period throughout the year. Six credits.

Lec. Wed. Fri. 12:40; lab. Tu. or Sat. 1:30 to 4:00

2. **Food Economics.** The function and nutritive values of foods, cost of food in relation to family budget, practical results of the "pure food" laws. The preparation of meals combining foods according to dietetic, aesthetic, and economic standards. Two lectures and one laboratory period throughout the year. Six credits. Prerequisite, Foods 1. Parallel with Chemistry 2.

Lec. Tu. Th. 10:10; lab. Tu. or Th. 1:30 to 4:00

3. **Dietetics and Nutrition.** The principles of human nutrition applied to various diets: metabolism of food stuffs,
dietaries and their construction, the relation of diet to health, and
the economy of foods. Prerequisites, Foods 2, and Chemistry 2; parallel
physiology and physiological chemistry. Two lectures and one labora-
tory period throughout the year. Six credits.

Lec. Tu. Th. 11:00; lab. Th. 1:30 to 4:00

5. PATHOLOGICAL NUTRITION. The fundamental principles of human
nutrition applied to dietaries for the sick and convalescent. The plan-
ing of special menus to meet requirements of hospital patients. Prerequisite, Foods 3. Three hours, first term. Three credits.

Tu. Th. Sat. 9:20 to 11:00

6. DIET FOR CHILDREN. The food requirements from birth to adoles-
cence. Prerequisite, Foods 3. Three hours, second term. Three credits.

Tu. Th. Sat. 9:20 to 11:00

7. CARE AND FEEDING OF CHILDREN. Prerequisite, Foods 1 or elenentary
cooking. Two hours. One lecture and one laboratory, first term. Two credits.

Wed. Fri. 9:20 to 11:00

9. SEMINAR. For advanced students and graduates. Critical
study of current literature on chemistry and economy of foods and
nutrition. Two credits.

Sat. 12:40

GEOLOGY

PROFESSOR WILLIAM PETERSON

2. 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 develop-
3. **ECONOMIC GEOLOGY.** The first term: the non-metals with special emphasis on mineral fertilizers; the second term: metals, their origin and economic uses. Either term may be taken without the other. Prerequisite, Geology 2. Three hours throughout the year. Six credits.
   Tu. Th. Sat. 10:10

4. **MINERALOGY.** Individual laboratory work in blow-pipe analysis and determinative mineralogy. Prerequisite, Chemistry 1. One recitation and two laboratory periods. Six credits.
   Lec. Wed. 9:20; lab. Wed. Fri. 1:30 to 4:00

5. **GEOLOGY OF GROUND WATER.** A study of structure to determine the cause of springs, artesian wells, etc. Structural characteristics that will yield water, either thru tunneling or boring. Prerequisites, Geology 2, Physics 1. Two hours, second term. Two credits.
   Wed. Fri. 10:10

6. **ADVANCED PHYSIOGRAPHY.** For students who wish a more complete knowledge of physiographic features and processes than can be given in Geology 1. Prerequisite, Geology 2. Two hours, first term. Four credits.
   Wed. Fri. 11:50

7. **PETROLOGY.** The origin and formation of the different kinds of igneous rocks and methods for the determination of the minerals which compose them. Prerequisites, Geology 2 and 4, Chemistry 1. Lectures, reading, and laboratory work. Time and credit to be arranged.

8. Field methods necessary in mapping the detail geology of an assigned area.
9. **Local Geography.** The relief of Utah and bordering states. Relation of the country rock and physical features to productive land areas. One piece of relief modeling is required from each student. Prerequisite, Geology 2. Two hours, one term. Two credits.

Wed. Fri. 10:10

*See Roads, page 131, for related work.*

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**HISTORY**

**Professor Daines**

3a. **English History.** The constitutional and social development of England during the Stuart Period. Three hours, first term. Three credits.

Tu. Th. Sat. 8:30

3b. **English History.** Modern England beginning with the year 1815. Three hours, second term. Three credits.

Tu. Th. Sat. 8:30

4a. **Modern European History.** The French Revolution and the Napoleonic Era. Three hours, first term. Three credits.

Tu. Th. Sat. 9:20

4b. **Modern European History.** Europe during the last fifty years. Three hours, second term. Three credits.

Tu. Th. Sat. 9:20

5. **History of the American West.** The expansion westward of the American Nation. Utah and the surrounding states are given special attention. Three hours throughout the year. Six credits.

Tu. Th. Sat. 1:30

6. **Ancient History.** Nations that have contributed to western civilization. Three hours throughout the year. Six credits.
7. **History of Civilization.** Factors in ancient, medieval, and modern times of permanent value in our own day. Two hours throughout the year. Four credits.
   Wed. Fri. 8:30

8. **History of Agriculture.** A survey of the development of agricultural methods and organization, and of the origin of farm crops and tools. Two hours throughout the year. Four credits.
   Wed. Fri. 9:20

9. **History of Science.** The growth of the scientific spirit and the development of scientific methods and content. Two hours throughout the year. Four credits.
   Wed. Fri. 10:10

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**HOME CONSTRUCTION AND SANITATION**

**Professor Cooper**  
**Professor Wilkinson**

1. **Sanitation.** Health problems of the home and community; cause, carriers, and prevention of disease; sanitary science and acts in relation to air, water, food supply, and to sewage and garbage disposal. Prerequisites or parallels, Bacteriology 1 and 2. Two hours, first term. Two credits.
   Wed. Fri. 10:10

2. **Home Care of the Sick.** Emergencies, and simple procedure in home care of the sick when professional nursing is not required. Prerequisites, Bacteriology 1, and Physiology 1. Two laboratory periods, second term. Three credits.
   Wed. Fri. 1:30 to 4:00

3. **House Construction.** The locating of the house; principles of floor planning; and construction of materials. Pre-
requisites, H. C. S. 1 and Art 1. Two hours, second term. Two credits.
    Wed. Fri. 10:10

4. **Household Administration.** The relation of the home to society: standards of living, income, and expenditure; savings, service, and management. Prerequisite, Economics 2. Three hours throughout the year. Six credits.
    Tu. Th. Sat. 9:20

5. **Home Laundering.** Equipment for the home laundry; laundering processes; methods of cleaning silks, woolens, linen, and cotton; special precautions in handling colored materials, laces, and fine materials; the removal of stains. Two laboratory periods, first term. Two credits.
    Wed. Fri. 1:30 to 4:00

6. **Survey.** The supervision and management of home economics departments in educational institutions. Two lectures throughout the year. Four credits.
    Wed. Fri. 9:20

7. **Sanitary Analysis.** A chemical and bacteriological examination of water and milk. Prerequisites, Chemistry 1 and 2, and Bacteriology 1. One lecture and two laboratory periods, second term. Three credits.

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**HORTICULTURE**

**Professor ————**

**Mr. Goodspeed**

1. **Pomology.** Commercial fruit growing,—selecting of orchard site, planting, cultivating, irrigating, harvesting, and marketing the crop. Three lectures, first term. Three credits.
    Tu. Th. Sat. 8:30

2. **Bush Fruits.** The propagation, culture, harvesting and
marketing of small fruits; such as, strawberries, currants, raspberries, grapes. Prerequisite, Horticulture 3a. Three lectures, second term. Three credits.

Tu. Th. Sat. 8:30

3a. Practical Pomology. Propagation, picking and packing fruit; elementary work in greenhouse management. Two lectures and one laboratory period, first term. Three credits.

Lec. Wed. Fri. 10:10; lab. Tu. 1:30 to 4:00


Lec. Wed. 10:10; lab. Tu. 1:30 to 4:00

4. Vegetable Gardening. The cultivation and economic importance of the various vegetable crops: soils, fertilizers, planting, transplanting, and storage of such crops for home and commercial uses. Two lectures and one laboratory period, second term. Three credits.

Lec. Wed. Fri. 9:20; lab. Wed. 1:30 to 4:00

7. Systematic Pomology. Detailed study of the various fruits, enabling the student to judge fruit exhibits. Prerequisites, Horticulture 1, Botany 2. One lecture and one laboratory period, first term. Two credits.

Lec. Wed. 9:20; lab. Wed. 1:30 to 4:00

8. Landscape Gardening. Ornamental plants; methods of grouping and planting; laying out of public and private grounds. Prerequisite, Horticulture 3. Two lectures, one laboratory period, second term. Three credits.

Lec. Wed. Fri. 11:50; lab. Fri. 1:30 to 4:00

9. Horticultural Literature. Books, bulletins, reports, magazine articles, etc. Prerequisites, Horticulture 1, Botany 5, and Entomology a. Three recitation periods thruout the year. Six credits.

Tu. Th. Sat. 10:10
Tu. Th. Sat. 8:30

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**LIBRARY ECONOMY**

**Miss Elizabeth Smith**

1. **GENERAL REFERENCE.** Classification and arrangement of books; the card catalog; reference books. Text, "List of Reference Books in the Utah Agricultural College Library." Two hours, first term. Two credits.
Wed. Fri. 10:10

2. **BIBLIOGRAPHY.** Agricultural, scientific, and technical literature of learned societies, special periodicals, and government publications. Lectures by professors; each student compiles a bibliography. Two hours, second term. Two credits.
Wed. Fri. 10:10

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**MATHEMATICS**

**Professor Saxer**

**Assistant Professor Humpherys**

**Mr. McAllister**

a. **VOCATIONAL ALGEBRA.** Primarily for Practical course students. Not accepted as a substitute for high school algebra. Three hours throughout the year. Six credits.
Tu. Th. Sat. 11:00
b. Plane Geometry. Three hours throughout the year. Six credits.
   Tu. Th. Sat. 10:10

3. Agricultural Mathematics. A brief course in plane trigonometry which includes the necessary drill in algebra, logarithms, and trigonometric tables. Three hours, first term. Three credits. Prerequisite, entrance mathematics.
   Tu. Th. Sat. 12:40

   Tu. Th. Sat. 9:20

5. College Algebra. Three hours throughout the year. Six credits.
   Tu. Th. Sat. 9:20

   Tu. Th. Sat. 12:40

   Daily, 8:30

8. Differential Equations. Two hours throughout the year. Four credits. Prerequisite, Mathematics 7.
   Wed. Fri. 12:40

10. General Astronomy. Two hours throughout the year. Four credits. Prerequisite, Physics 1.
    Wed. Fri. 10:10

    Not given in 1915-16.
TECHNOLOGY OF MECHANIC ARTS

1. A SURVEY OF THE TRADES. The history and development; methods of learning a trade; apprenticeship and trade-school; problems of industrial development and factory life. First term. Two credits.
   Wed. Fri. 11:50

2. MECHANISM. The simpler cases of transmission of motion by belts, gears, levers, and links; the means of getting the rectilinear motion of the piston to rotary motion of drive wheels of the automobile. Second term. Two credits.
   Wed. Fri. 12:40

3. AUTOMOBILES. Their construction, operation, maintenance and repair; types; engine details; carburetors; accessories; methods of locating troubles; practical road work. Two hours throughout the year. Four credits.
   Wed. Fri. 10:10

   Tu. Th. Sat. 11:00

5. HOUSE BUILDING AND CONTRACTING. Methods of con-

*For related work see Art department.
struction: the frame, two-brick, three-brick, stucco, shingle, cement block, and stuccoed hollow tile; comparative cost and economy of each; interior finishing. Three hours, throughout the year. Six credits.
Tu. Th. Sat. 11:50
See Rural Architecture 9.

6. Shop Problems. The application of mathematics to the trades; practical methods of estimating quantities of material, calculating costs, and finding speeds of machines; the use of geometry in the trades. Two hours throughout the year. Four credits.
Wed. Fri. 12:40

7. Materials of Construction. The chemistry of iron, steel, alloys, etc., and their special use in machine parts; strength, composition, and proper use of woods, plaster, glass, glue, paints, cement, brick, etc., in building. Three hours, first term.
Tu. Th. Sat. 11:00
See Rural Architecture 3.

Forging and General Blacksmithing
Assistant Professor Newey

Shops open daily, 8:30 to 11:00 and 1:30 to 4:00, except Thursday.


b. Special Forge Shop Operations. The use and care of blacksmith tools. Single-tree clips, hammers, etc., are made so as to illustrate forging with anvil tools, filing, finishing, casehardening, tempering, and drilling. Prerequisite, course a. Three periods daily, second term. Five credits.

1. Advanced Forging. The forging and welding of tool
steel; a few large forging and welding exercises necessitating the use of the power hammer. Articles made: a set of anvil tools, a sledge hammer, and a few special carriage forgings. Prerequisite, Course b. Three periods daily, first term. Five credits.

2. Woodwork. Preparation for general repairing and carriage woodwork. The articles made involve problems in woodwork, common to a western repair shop. Three periods daily, second term. Five credits.


5-6. Carriage Work. Joints and constructions used in carriage and automobile bodies; the building of an approved vehicle or farm implement. Prerequisites, Course 4, and Mechanical Drawing 4. Three periods daily, two terms. Five credits, each term.

c. Short Course. Selected work from Course a, for students who cannot spend every day in the shop; especially suitable for agricultural and engineering students or for any one wishing to use blacksmith tools. Welding iron and tempering steel. Six periods a week, each term. Two credits.

d. Advanced Short Course. For students who have had some work, but cannot fit our regular schedule. Advanced work selected from the regular courses. Time and credits to be arranged with the instructor.

Any of the above work may be taken in the Practical and Winter courses.
AGRICULTURAL COLLEGE OF UTAH

Foundry. Operated for demonstration and the making of castings. If a sufficient number of students apply the foundry will run for instructional purposes also.

MACHINE AND AUTOMOBILE WORK

Assistant Professor Pulley

1. Bench and Vise. Materials, tools, and methods; problems; the making of keyways, hinges, stencil-plates, calipers, etc. Tu. Wed. Fri. Sat. 1:30 to 4:00

2. Bench, Planer and Shaper. Soldering, babbitting bearings, valve grinding, hand turning, planing and shaping; elementary work on the engine lathe; problems. Prerequisite, course 1, second term. Four credits. Tu. Wed. Fri. Sat. 1:30 to 4:00

3. Lathe and Milling Machine. Making of machine and automobile parts: shafts, pulleys, valves, piston rods, etc. Computations for setting and gearing of machines, and of time required for work. Prerequisite, course 2, first term. Four credits. Tu. Wed. Fri. Sat. 1:30 to 4:00

4. Lathe and Advanced Milling. Shaft couplings, engine crank shafts, gear cutting, gang milling, etc. Prerequisite, course 3, second term. Four credits. Tu. Wed. Fri. Sat. 1:30 to 4:00

5. Automobile Repair. Methods of repairing and making adjustments; making repair parts; road work. Prerequisite, course 3, second term. Four credits. Tu. Wed. Fri. Sat. 1:30 to 4:00

6. Automobile. The making of parts: camshafts, connecting rods, pistons and rings, change speed gear, assemblies, etc. Prerequisite, course 4, first term. Four credits. Tu. Wed. Fri. Sat. 1:30 to 4:00
7. Tool Making. Taps, dies, mandrels, twist drills, milling cutters, etc. Prerequisites, course 4, and a knowledge of hardening and tempering steel, second term. Four credits.
   Tu. Wed. Fri. Sat. 1:30 to 4:00

8. Machine Construction. A model-size steam engine may be made in 1915-16. Prerequisites, course 4, and a working knowledge of tool steel, first term. Four credits.
   Tu. Wed. Fri. Sat. 1:30 to 4:00


   Tu. Th. Sat. 10:10

11. Machine Design. (Continued.) Prerequisite, course 10. Time and credits to be arranged.

SHORT COURSE

c. Short Course. Exercises selected from courses 1 and 2. For students of farm machinery, and others with limited time for machine work. Two laboratory periods each term. Two credits.
   Wed. Fri. 1:30 to 4:00

d. Advanced Short Course. Work selected from courses 3, 4, etc. Time, credits, etc., to be arranged with instructor.
   Any of the above work may be taken in the Winter courses.

MECHANICAL DRAWING
Assistant Professor Pulley

a. Elementary Mechanical Drawing. Drawing plane geometrical figures and making the common geometrical constructions used in drafting operations; practice with drawing instruments for accuracy. One recitation and one laboratory period, first term. Two credits.
   Rec. and lab. Wed. Fri. 8:30 to 11:00
b. LETTERING AND APPLIED GEOMETRY. Letter construction, spacing, etc.; monograms, titles for drawings, border lines, scales; projection drawings. Prerequisite, course 1, or a working knowledge of geometry. One recitation and one laboratory period, second term. Two credits.

Rec. and lab. Wed. Fri. 8:30 to 11:00

1. ORTHOGRAPHIC PROJECTION. The representation of objects on paper in accord with practice and the principles of orthographic projection; coordinate and auxiliary projections, sectional views, and graphical solutions. Prerequisite, course 2. One recitation and one laboratory period, first term. Two credits.

Rec. and lab. Wed. Fri. 8:30 to 11:00

2. ORTHOGRAPHIC PROJECTION. (Continued.) Determining true length of lines, angles, sizes and shapes of surfaces, the lines of intersection of planes, solids and developments. Such knowledge is used constantly by mechanics in reading drawings, laying out jack rafters, hoppers, etc. One recitation and one laboratory period, second term. Two credits.

Rec. and lab. Wed. Fri. 8:30 to 11:00

3. ONE PLANE PROJECTION. Pictorial representations of objects in isometric, dimetric, oblique, and cabinet projections; drawing of geometrical solids, framing joints, cabinets, machine parts, etc. Prerequisite, course 3. One recitation and one laboratory period, first term. Two credits.

Rec. and lab. Wed. Fri. 8:30 to 11:00

4. CARRIAGE DRAFTING. For students in forging and carriage work. Problems. Prerequisite, course 2. Two credits.

Wed. Fri. 8:30 to 11:00

5. ARCHITECTURAL DRAWING AND PERSPECTIVE. The student is required to design and draw the plans, elevations, sections details, and the perspective of a complete building. One recitation and one laboratory period, first term. Two credits.

Wed. Fri. 8:30 to 11:00

8
6. **Machine Drawing.** Drawing of machinery with dimensions, notes, and conventions. Prerequisite, course 4. One recitation and one laboratory period, second term. Two credits.
   Wed. Fri. 8:30 to 11:00

7. **Agricultural Drafting.** Selection of work from courses a, b, and 1, for the agricultural student. One recitation and two laboratory periods, first term. Three credits.
   Tu. Th. Sat. 8:30 to 11:00

8. **Agricultural Drafting.** (Continued.) Application of principles from courses 2 and 3; tracing and blue printing. Prerequisite, course 7. One recitation and two laboratory periods, second term. Three credits.
   Tu. Th. Sat. 8:30 to 11:00

9. **Elementary Descriptive Geometry.** Of practical value to the mechanic and the engineer alike in reading working drawings and in solving graphical problems. The point, line, plane, and simple solids are studied. Prerequisite, course b, or a working knowledge of geometry and instruments. Three laboratory periods, including recitation hour, first term. Three credits.
   Rec. and lab. Tu. Th. Sat. 8:30 to 11:00

10. **Descriptive Geometry.** (Continued.) Determining of tangent planes, sections, intersections; developments of single curved and warped surfaces, and double curved surfaces of revolution. Practical problems: laying out patterns for reducers, locomotive stacks, screw conveyor designs, etc. Prerequisite, course 9. Three laboratory periods, including recitation hour, second term. Three credits.
   Rec. and lab. Tu. Th. Sat. 8:30 to 11:00

*N. B.—The necessary materials and instruments for mechanical drawing can be purchased at the College bookstore for, from seven to twenty-five dollars.*
WOODWORK AND HOUSE BUILDING

ASSISTANT PROFESSOR HANSEN
MR. SWENSON

Shops open daily, 8:30 to 11:00 and 1:30 to 4:00, except Thursday

a. FUNDAMENTALS. Scarfing, mortising, dovetailing, and jointing, the proper handling of tools. Three periods daily, first term. Four credits.

b. FUNDAMENTALS. (Continued.) Panels, sashes, doors shelves; thorough practice in tool sharpening. Prerequisite, course a. Three periods daily, one term. Four credits.

1. MACHINE WORK. The care and use of wood-working machinery; the building of a modern work bench. Prerequisite, course b. Three periods daily, first term. Five credits.

2. MACHINE WORK. (Continued.) Elementary turning, and advanced turning of table legs, balusters, newels, and fancy objects; making of a tool chest. Prerequisite, course 1. Three periods daily, second term. Four credits.

3. CABINET MAKING AND HOUSEBUILDING. The making in fir of settees, book cases, desks, or chairs; staining and finishing; housebuilding,—calculating the bill of lumber, framing, roofing, and outside wood work. Prerequisites, course 2, and Art 26. Three periods daily, first term. Four credits.

4. HOUSEBUILDING AND CABINET MAKING. (Continued.) Making and setting door and window frames, fitting and hanging doors and windows, or making furniture in oak,—such as, Morris chairs, desks, or dining tables, stained and finished. Prerequisite, course 3. Three periods daily, second term. Four credits.

5. FANCY CABINET MAKING OR INTERIOR FINISHING. The
making of furniture in mahogany or other expensive wood; veneering, inlaying, and hand polishing; interior finishing. Prerequisite, course 4. Three periods daily, first term. Four credits.

6. Continuation of Course 5.

9. Pattern Making. Patterns in plain pipes, elbow joints, arc boxes, grates, pulleys, and spur gears. Prerequisite, course 2. Six periods a week, one term. Two credits.

10. Wood Carving. Simple articles in straight and curved lines, simple conventional ornaments, and natural foliage; the sharpening and setting of tools. Six periods a week, one term. Two credits.

c. Short Course. Selected work from course a, for students who cannot spend every day in the shop; especially suitable for agricultural and engineering students, and for any wishing to do simple woodwork on the farm. Six periods a week, first term. Two credits.

d. Advanced Short Course. For students who have had some work, but cannot fit our regular schedule. Advanced work from the regular courses. Time and credits to be arranged with the instructor.

Any of the above work may be taken in the Practical and Winter courses.

METHODS IN EXPERIMENTATION AND EXTENSION

The purpose of the course in extension methods is to acquaint the advanced students, who may contemplate entering such activities with the rapidly growing work of the Extension Division. Such a course furthermore is designed to act as a fitting school for those of the practically trained agriculturists
or home workers who plan to enter Extension work and whose knowledge is not organized according to college standards. The course will furthermore act as a cementing force among Extension workers themselves in that it will presume on their part a careful arrangement of their material and a careful comparison of their work with related work in the Extension Division. It will be planned to have the lecture material, in connection with the various subjects, given during different weeks and the demonstrations of certain different subjects grouped during a few weeks in order to enable County Agents and others to take advantage of the demonstrations.

As an example of the nature of material presented under these various subjects, the following is given:

History and Organization of Extension Work, six lectures:
1. History of Extension Work
2. Purpose and Personnel
3. Relation to Interior Instruction, Experimentation, and Federal Departments
4. The Plan of Organization
5. Reports, Records and Publications
6. Machinery of Instruction

Extension Work in Animal Husbandry, six lectures:
1. Essential and Unessential Facts
2. Essential and Unessential Facts (continued)
3. Method of Presentation
4. Method of Presentation (continued)
5. Demonstration (on Cache Valley Farm)
6. Demonstration (on Cache Valley Farm)

COURSES

1a. Lectures and demonstrations in the methods of instruction in Agricultural Extension work. Two lectures a week throughout the year.

Wed. Fri. 11:50.

Schedule of subject matter and lectures:
History and Organization of Extension Work........ 6 periods
Farmers' Institutes and Schools.......................... 3 "
Agricultural Economics .................................. 9 "
Agricultural Engineering .................................. 3 "
Animal Husbandry ......................................... 6 "
Dairying .................................................... 4 "
Dry-Farming ............................................... 4 "
Farm Management ......................................... 6 "
Horticulture ............................................... 3 "
Irrigation and Drainage .................................. 6 "
Seed Breeding and General Agronomy ..................... 9 "
Soils ....................................................... 2 "
Veterinary Science ....................................... 3 "
The County Agent ......................................... 3 "
Boys' Club Work .......................................... 6 "
High School Club Work ................................... 3 "
Correspondence Extension Work ........................... 3 "
The Preparation of Exhibits ................................ 2 "
Review and Summary ...................................... 3 "

1b. Lectures and demonstrations in the methods of instruction in home economics Extension work. Two lectures a week for one term. 11:50 daily (if necessary) second term.

Schedule:
History and Organization of Extension Work........ 6 periods
Foods and Dietetics ....................................... 3 "
Domestic Arts ............................................. 3 "
House Construction and Sanitation ....................... 4 "
Home Art .................................................. 4 "
Music ...................................................... 1 "
Home Management ....................................... 3 "
Home Economics Associations ............................. 1 "
Housekeepers' Institutes and Schools .................... 3 "
Correspondence Extension Work ........................... 3 "
Girls' Club Work ......................................... 4 "
Review and Summary ...................................... 3 "
2. METHODS IN EXPERIMENTATION. Methods and principles of research as applied to agriculture. Three rec., first term. Three credits.

MILITARY SCIENCE AND TACTICS
LIEUTENANT E. SANTSCHI, JR., U. S. ARMY

Realizing the importance of an adequate force for the defense of the nation and the possibility of foreign aggression, the framers of the act creating land grant institutions most wisely demanded that all states availing themselves of the advantages thereunto appertaining maintain a department of instruction in military science and tactics. The law further provides that this instruction be under the supervision of the War Department; for this purpose an officer of the regular army is maintained at the College by the United States.

The authorities of the State of Utah and of the Agricultural College, in hearty accord with the sentiments of the National Government on this matter, adhere strictly to the provisions of the law. All able-bodied male students are required to complete the prescribed three-year course.

The object of the course is to inculcate habits of obedience, regularity, punctuality and neatness, to promote a rational physical development, and to give instruction in the use of weapons and in the art of war which makes a man an efficient citizen both in war and in peace.

The satisfactory completion of the practical and theoretical work prescribed for any one school term entitles the student to two semester hours credit towards graduation.

The War Department requires that all students appear in uniform while taking drill and receiving instruction in military science. The College has adopted a neat and serviceable uniform which may be purchased through the College secretary at actual cost, sixteen to eighteen dollars. Students must deposit the cost price of this uniform at the time of registration.
PRACTICAL INSTRUCTION

Infantry Drill, Field Service, Target practice, Intrenching, and Signalling; minor tactics and practical solution of field problems.

THEORETICAL INSTRUCTION

MILITARY 1. School of the soldier, squad, and company; description and nomenclature of the Rifle; theory of rifle firing. Supplementary lectures.

Sec. 1. Tu. 10:10  
Sec. 2. Tu. 12:40  
Sec. 3. Wed. 10:10  
Sec. 4. Wed. 12:40

MILITARY 2. Studies in Minor Tactics; map reading.  
Wed. 11:00

MILITARY 3. Military Hygiene; advanced Field and Service Regulations.  
Tu. 11:00

MODERN LANGUAGES AND LATIN

Professor Arnold

FRENCH

1. FIRST YEAR FRENCH. Walther and Ballard's Beginner's French for grammar and conversation. About 400 pages of easy prose are read. Four hours throughout the year. Eight credits.  
Tu. Wed. Th. Fri. 10:10

2. SECOND YEAR FRENCH. Francois French Composition for grammatical review and writing in French; Lavisse's Histoire de France for conversation; translating works of nineteenth century authors. Prerequisite, French 1. Three hours throughout the year. Six credits  
Tu. Th. Sat. 9:20
3. Third Year French. Four elective one-hour courses: a—conversation; b—rapid reading of French periodicals on horticulture, stock-breeding, or domestic science subjects; c—rapid reading of French classics, varying each year; d—French periodicals on French home life. Course 3b may be given in two divisions to suit those who elect it. Students may elect any part or all of French 3. Each division counts two credits.
   a. Fri. 9:20
   b, c, and d, at hours to be arranged with instructor

GERMAN

1. First Year German. Grammar, conversation, and reading of easy texts. Four hours throughout the year. Eight credits.
   Tu. Wed. Th. Fri. 8:30

2. Second Year German. Bernhardt’s *German Composition*; original German composition. Many texts rapidly read, from nineteenth century authors; one scientific text. Three hours throughout the year. Six credits.
   Tu. Th. Sat. 11:00

3. Third Year German. Four elective one-hour courses: a—conversation, including the learning of a part in a one-act play; b—scientific German, with private reading in different subjects according to the course of each student; c—study of Goethe’s *Wilhelm Meister*; d—German Drama club for the production of one-act plays in German. Students may elect any part or all of German 3. Each division counts two credits.
   a. Fri. 12:40
   b. Sat. 10:10
   c. Sat. 11:50
   d. Wed. 9:20

SPANISH

1. Grammar, conversation, and rapid reading of modern texts and newspapers.
   Wed. Fri. 1:30
LATIN

1. First Year Latin. Collar and Daniel, First Year Latin; Viri Romae. Drill on essentials of Latin grammar; acquiring of vocabulary; English words derived from Latin; selections for reading. Three hours throughout the year. Six credits.
   Tu. Th. Sat. 12:40

MUSIC

Professor Thatcher, Choir, Theory and Composition, Voice
Assistant Professor Spicker, Orchestra-conducting, Appreciation, Violin
Mr. Alexander, Band, Cornet, Etc.
Miss Underwood, Piano Ensemble, Piano

Class work in music is free; a small laboratory fee is charged in some courses.

1. Notation and Solfeggio. a. Melody writing, and simple chord formation. (From text.) b. Applied music in choir. Four hours throughout the year. Eight credits.
   Tu. Th. Sat. 11:50

2. History and Appreciation of Music. a. (From text.)
b. Applied music in choir or band. (N. B. A small laboratory fee is charged.) Four hours throughout the year. Eight credits.
   Sec. 1. Tu. Th. Sat. 1:30
   Sec. 2. Tu. Th. Sat. 2:20

3. Elementary Harmony. a. Melody writing. (Text used.) Three recitations a week; home study, 8 hours as a minimum. (At least two years of piano study or its equivalent must precede this course.) b. Applied music: 1. individual work, home study, 6 hours at least; 2. ensemble, 2 hours of home study at least. Five or six hours throughout the year. Ten credits.
   Tu. Th. Sat. 12:40; lab. Wed. Sat. 4:00
Note—For Courses 4, 5, and 6, the home study increases over Course 3.

4. **Advanced Harmony and Analysis.**
   a. Ear training, (Text used.)
   b. Applied music, individual and ensemble. Prerequisite, Music 3. Five or six hours throughout the year. Ten credits.

5. **Counterpoint and Small Forms.**
   a. (Text used.)
   b. Applied music, individual and ensemble. Prerequisite, Music 4. Five or six hours throughout the year. Ten credits.

6. **Canon and Fugue.**
   a. Large forms. (Text used.)
   b. Applied music, individual and ensemble. Prerequisite, Music 5. Five or six hours throughout the year. Ten credits.

**COURSES FOR GRADUATES**

7. **Instrumentation.**
   a. First term.
   b. Conducting, second term. Four hours throughout the year. Eight credits.

8. **Original Composition.**
   a. Art songs, anthems, and cantata forms; small and large instrumental combinations,—piano-forte four-hands, trio, quartet, and orchestra. b. Ensemble (advanced). Prerequisite, Music 7. Four hours throughout the year. Eight credits.

**Ensemble.** Choral practice, in choir, 3 hours a week; quartet, 2 hours a week. Orchestral practice: orchestra, 3 hours a week; quartet, 1 hour a week; trio (piano-forte and strings), 1 hour a week. Band, 3 hours a week. Piano-forte class, 4, 6, and 8 hands, 2 hours a week.

9. **Band.**
   Th. 1:30 to 4:00

10. **Choir.**
   Tu. 3:10; Th. 3:10; Fri. 3:10; Wed. 11:50; Fri. 4:00
11. **Orchestra.**
Tu. Th. 4:00

12. **Ensemble Piano and Solo Examination.**
Wed. Sat. 4:00

Note—Individual work may be taken in voice, violin, piano, or orchestral instrument, either in the College or outside, but the work must cover the appended course. Examinations are held once a month, at which all registered students are expected to play or sing. The student pays the teacher's fee.

**INDIVIDUAL WORK**

*Voice Culture and Singing.* Must have a playing knowledge of piano or violin, i.e., two years of serious study; breathing; study of vowel forms, scales, vocal exercises of Sieber, Vaccai, Concone, Abt. Marchesi, etc.; songs (modern and classic), arias from opera, oratorio.

*Violin.* Two years' study presupposed. First year, David or DeBeriot, Book II; easy solos. Second year, Kreutzer, 42 exercises, medium grade. Third year, Fiorilli studies; Rode, 24 exercises; Concertos Viotti, Rode. Fourth year, Rovelli, Gavinies, Mendelssohn, Bruch.


*Orchestral and Band Instrument.* Corresponds as nearly as possible to courses of study on violin. (Must combine with study of the solo instrument, two years on piano.)
PHYSICAL EDUCATION

Professor Teetzal
Assistant Professor Johnson

The department of physical education fosters hygienic habits among the students and so directs their exercise that their physical development makes efficient their mental growth. This is accomplished, first, by giving them the needed opportunity for gymnastic exercises; secondly, by encouraging athletic games; thirdly, by giving them a guiding knowledge of the principles of physical education. Each student is given careful physical examination, upon which, as far as possible, his work is based. Regulation gymnasium suits and shoes required.

FOR MEN

1. Football. Practice in football technique; equipment; theory of defensive and offensive play; study of rules, duties of officials, schedule making, and general preparation for coaching. First term. One-half credit.
   Daily, 4:00

2. Track and Field Athletics. Instruction and practice; how to choose men for different events; track rules and duties of officials; theory of training for endurance, speed, skill, strength; problems of temperament, climate, traveling and professionalism. Second term. One-half credit.
   Daily, 4:00

3. Basketball. Instruction and practice; history, principles and technique of the game; methods of training and coaching; study of rules and duties of officials. When continued throughout the basketball season, one-half credit. If another branch of athletics be taken for the second term, one credit. First term.
   Daily, 4:00
4. **Baseball.** Instruction and practice. Second term. One-half credit.
   Daily, 4:00

5. **Gymnasium Work.** Swedish gymnastics and gymnasium games. During the second half of the second term, students may elect any of the following in place of the indoor work: track and field athletics, baseball, tennis. First and second terms. One credit.
   Daily, 4:00

6. **Wrestling.** The second half of the term, baseball, track or tennis must be taken to complete the term's work. Second term. One-half credit.
   Daily, 4:00

7. **Swimming.** First and second terms. One credit.
   Tu. Th. Sat. 4

8. **First Aid to the Injured.** Treatment of emergencies and accidents in the home, on the street, on the athletic field; bandaging and transporting of the wounded. First term. Two credits.
   Wed. Fri. 12:40 to 1:30

9. **Inter-Mural Athletics.** Competitive sports for all students who have never won their letter, or who are not trying for any of the teams. No credit.

**FOR WOMEN**

The courses are both creative and recreative, remedial and preventive. Individual attention is given to women not strong enough for regular class work, and to those needing exercise for correction or prevention of slight deformities, faulty postures, etc.

11. Required of all college women. Formative and correc-
tive body building; occasional lectures. Three periods a week throughout the year. Two credits.
Tu. Th. Sat. 11:00

12. The technique of dancing, rhythm, and the fundamental principles from which all forms of dancing are built. Prerequisite, Physical Education 11. Three periods. Two credits.
Tu. Th. Sat. 2:20

13. Dance composition, interpretative dancing, and the relation of dancing to music. Prerequisite, Physical Education 12. Three periods a week throughout the year. Two credits.
Tu. Th. Sat. 11:50

14. Athletics, baseball, basketball, volley ball, cross country running, tennis, water polo, and swimming. Students must consult with instructor before registering. Three periods a week throughout the year. Two credits.
Tu. Th. Sat. 3:10 to 4:00

15a. ADVANCED GYMNASICS. Physical Education 11, prerequisite. Three periods a week throughout the year. Two credits.
Tu. Th. Sat. 1:30
Note—Where possible, students should register for 15a and 15b the same year.

15b. LECTURES. Outside reading on personal hygiene, sex hygiene, physiology of exercise, and first aid to the injured. Two periods a week throughout the year. Four credits.
Wed. Fri. 1:30

16. In and out-of-door games and plays; folk dancing; collateral reading. Two periods a week throughout the year. Two credits.
Wed. Fri. 11:50

17. Social dancing for men and women who cannot dance. One period a week throughout the year. No credits.
Fri. 3:10
1a. General Physics. The elements of physics, including mechanics, heat, electricity and magnetism, sound, and light. Lectures are illustrated by experiments and lantern slides. Prerequisite, one unit of mathematics. Two recitations and one laboratory period throughout the year. Six credits.
Rec. Wed. Fri. 8:30; lab. Tu. or Wed. 1:30 to 4:00

1b. General Physics. Physics for home economics and commercial students, emphasizing the applications of physics in modern life. Two recitations and one laboratory period, throughout the year. Six credits.
Rec. Tu. Th. 8:30; lab. Fri. or Sat. 1:30

2. General College Physics. A survey of the whole field of physics in order to lay a thorough foundation for the subsequent study of this and related subjects. Prerequisites, high school physics, and two units of mathematics. Three recitations and two laboratory periods, throughout the year. Ten credits.
Rec. Tu. Th. Sat. 10:00; lab. Tu. Sat. or Wed. Fri. 1:30 to 4:00

3. Elementary Applied Mechanics, Thermodynamics, Steam and Gasoline Engines. Two recitations throughout the year. Four credits.
Wed. Fri. 12:40

4. Applied Electricity. Two recitations and one laboratory period throughout the year. Six credits. Prerequisite, elementary physics.
Rec. Tu. Th. 11:00; lab. Tu. or Wed. 1:30

5. Chemical Physics. Including the atomic theory;
kinetic theory of gases; gaseous, liquid, and solid states; solutions; thermo-chemistry; electro-chemistry and radio-activity with special emphasis on osmotic pressure and diffusion. Prerequisites, elementary chemistry and physics. Three recitations, first term. Three credits.

Tu. Th. Sat. 8:30
(Physics 5 and 6 should be taken together.)

6. **Meteorology or Physics of the Atmosphere.** The methods of weather observations, predictions, frost warnings and the relation of climate to agriculture. Prerequisite, elementary physics. Three recitations, second term. Three credits.

Tu. Th. Sat. 8:30

7. **Advanced Laboratory Work.**

Fri. or Sat. 1:30

8. **Mechanics, Light, Sound, Thermodynamics, and Physical Chemistry.** Two recitations throughout the year. Four credits. Prerequisite, Calculus.

Wed. Fri. 11:50

9. **Advanced Electricity and Magnetism.** Two lectures throughout the year. Four credits.

*Not given in 1915-16.*

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**PHYSIOLOGY AND PHYSIOLOGICAL CHEMISTRY**

**Professor Greaves**

**Mr. Smith**

1. **Physiology.** Movement, sensation, circulation, and respiration; questions of hygiene and sanitation. Three hours, first term. Three credits.

Tu. Th. Sat. 9:20

2. **Digestion, Absorption, and Metabolism.** A continua-
tion of Physiology 1. Digestion, absorption, metabolism and closely related subjects. Three hours, second term. Three credits.  
Tu. Th. Sat. 9:20

3. **Physiological Chemistry.** The transformations going on in the plant and animal organism. Three lectures, second term. Three credits.  
Tu. Th. Sat. 8:30

4. **Physiological Chemistry.** May accompany the preceding course. Six hours laboratory work a week, second term. Two credits.  
*Not given in 1915-16.*

*See Bacteriology, page 84, for related work.*

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**POLITICAL SCIENCE**

**Professor Thomas**  
**Professor Daines**  
**Mr. Brooke**

1. **Government.** Our European ancestors, origin of states and state institutions, English and American governments compared, state and foreign service, the treasury, money and coinage, banks, the post office and executive departments, legislation, the constitution, federal and state powers, political parties, party issues. Three hours throughout the year. Six credits.  
Tu. Th. Sat. 11:00

2. **Industrial and Commercial Law.** The elementary principles of law relating to common business transactions, including contracts, sales, promissory notes and bills of exchange, contracts of common carriers, agency, partnership and corporations. Three hours throughout the year. Six credits.  
Tu. Th. Sat. 8:30
4. The law of contracts; the law of agency; of partnership, and of commercial paper. Six credits. *(Not open to freshmen.)* *Not given in 1915-16.*

5. The law of real estate, of sales, of debtor and creditor, of suretyship; of insurance, of banks and bankruptcy, and of corporations. Six credits. *(Not open to freshmen.)*

Tu. Th. Sat. 1:30

6. **Irrigation Law or the Law of Waters.** The right of appropriation, natural and artificial water courses, limitation of use, protection of rights, disposal of rights, percolating water, distribution of water, etc. Three hours, second term. Three credits.

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**ROADS**

*Professor Wm. Peterson*

1. **Road Construction.** Road location, grade, drainage, resistance to traction, road materials, cost of construction and of machinery for preparing road material. Three hours, first term. Three credits.
   
   Tu. Th. Sat. 11:00

2. **Road Maintenance.** Width of tires and size of wheels, keeping up the road, repairing worn surfaces, maintaining drainage, employment of labor, cost of maintenance, comparison of different road machines. Prerequisite, Roads 1. Three hours, second term. Three credits.
   
   Tu. Th. Sat. 11:00

3. **Bridge Building.** Methods of bridge construction, materials used, and the amount of stress on arches of various kinds; the relative cost, strength, and durability of different bridges. Special attention is given to small bridges and culverts. Three hours, one term. Three credits.
4. **Road Materials.** A study of the various materials used in the construction and maintenance of roads. Special attention is given to the materials available to Utah farmers. Prerequisite, Geology 2 or 4. Two hours, second term. Two credits.

Lec. Wed. Fri. 8:30; lab. Tu. 1:30 to 4:00

*See Agricultural Engineering, page 69, and Geology, page 100, for related work.*

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**SOCIOMETRY**

**Professor Thomas**

**Professor Hendricks**

1. **Elements of Sociometry.** The foundations of sociology: social organs, social structure, and social activities. Three hours throughout the year. Six credits.

   Tu. Th. Sat. 12:40

2. **Present Day Social Problems, with Special Reference to Rural Conditions.** The principles of sociological science applied to the problems of modern agricultural and rural communities. Three hours, second term. Three credits.

   Tu. Th. Sat. 11:50

*See Economics, page 92, for related work.*

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**STENOGRAPHY AND TYPEWRITING**

**Professor P. E. Peterson**

**Mr. Howell**

**Stenography**

a. The fundamental rules of the Isaac-Pitman system of phonography; the Centenary edition is used. Five hours throughout the year. Ten credits.

Daily, 9:20
b. A continuation of a. The taking of actual letters and reports in connection with the Accounting department; the transcription of notes. Five hours throughout the year. Ten credits. Daily, 1:30

1. Intended to prepare teachers for commercial schools, or to train for civil service and verbatim work.
   Daily, 12:40
   Students for these classes must be registered not later than October 12th.

TYPEWRITING AND PENMANSHIP

a. Correct fingering and the proper manipulation of the machine. Five hours throughout the year. Two credits. Daily, any hour

b. Daily exercises in which accuracy is required. Monthly speed tests. Five hours throughout the year. Two credits. Daily, any hour

c. The development of a free, legible, business hand. Daily, 2:20

1. For college students; all stenographic pupils must take this study: the transcription of notes on the machines. Five hours throughout the year. Two credits.
   At any hour suitable to student.
   Special Prizes are offered by typewriter firms for special ability.
   For Accounting and Business Practice, see page 66.

VETERINARY SCIENCE

Professor Frederick

1. Veterinary Elements. Anatomy and physiology and the common ailments of domestic animals; the most prevalent contagious diseases, their causes, symptoms, course, diagnosis and
treatment; observation and practice in the free weekly clinics. Two hours, either term, and a three-hour clinic. Three credits. Lec. Wed. Fri. 9:20; clinic, Wed. 1:30 to 4:00

2. **Comparative Anatomy.** For students in agriculture, and animal husbandry especially. Practical work in dissection. Two lectures, illustrated by skeletons and models, and one laboratory period, throughout the year. Six credits.

3. **Obstetrics.** Obstetrical anatomy, reproduction, hygiene of pregnant animals, obstetric operations, accidents of parturition, and diseases of the young animals. The college herd and the surrounding stock-breeding community give opportunity for practical work. Three hours, one term. Three credits.

4. **Physiology.** The vital functions of the different species of domestic animals and those of the human body are compared; the physical and chemical laws as related to physiology; the general properties of animal cells,—their origin, development and growth; special physiology of the various organs and tissues of the animal body. Three lectures a week, throughout the year. Six credits. Tu. Th. Sat. 11:50

5. **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.

6. **Horse Shoeing.** The anatomy and physiology of the horse's foot; the form of the foot and direction of the limb; variations in the flight of the foot, style of going, shoeing of normal and irregular feet; winter shoeing; correction of defects in gait, and
methods of shoeing hoofs, defective in form or diseased. Two
hours, second term. Two credits.

Wed. Fri. 12:40

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**ZOOLOGY**

**Professor Titus**

**Mr. Hagan**

**Mr. Sorenson**

1. **Human Anatomy.** The form and structure of the body
and the vital functions of its organs. Two recitations and one
laboratory period throughout the year. Six credits.

Rec. Wed. Fri. 9:20; lab. Fri. 1:30 to 4:00

2. **General Zoology.** The relations of various groups of
animals to one another; emphasis upon the gross structure and
development and relation of the organs in the different groups.
Two recitations and one laboratory period throughout the year. Six
credits.

Sec. 1. Rec. Wed. Fri. 8:30; lab. Tu. 11:00 to 1:30
Sec. 2. Rec. Wed. Fri. 10:10; lab. Wed. 1:30 to 4:00

3. **Principles of Breeding.** The biological principles of
life and the inheritance of characters. Three lectures, first term.
Three credits.

Tu. Th. Sat. 8:30 or 10:10

4. **Eugenics.** The principles of heredity as applied to the
human race. Special attention is given to the heredity of physical,
mental and moral characters, and their effect on the race. Pre-
requisite, Zoology 3. Three lectures, second term. Three credits.

Tu. Th. Sat. 8:30 or 10:10

5. **Histology.** The development of the elementary tissues
and their microscopic structure. Methods of preparing, staining,
and mounting tissues. One lecture, two laboratory periods, throughout the year. Six credits.

*Alternates with Zoology 6.*

*Not given in 1915-1916.*

6. **Embryology.** Development of the cell and the formation of the various membranes, followed by the development of the central nervous system and the related sense organs. Two recitations and two laboratory periods throughout the year. Eight credits.

Lec. Wed. Fri. 11:50; lab. Tu. Sat 11:00 to 1:30

*Alternates with Zoology 5.*

7. **Advanced Zoology.** The classification, structure and comparative anatomy of the common intermountain forms, especially those of the vertebrate group. Two lectures and one laboratory period. Three to six credits.

*Alternates with Zoology 8.*

*Not given in 1915-1916.*

8. **Economic Zoology.** The food habits of our common birds and injurious mammals; their relation to agricultural interests; methods of control. Two lectures and one laboratory period. Three hours, second term. Three credits.

Wed. Fri. 9:20; lab Th. 1:30

9. **Parasitology.** Structure and life history of animal parasites. Special attention is given to arthropods that act as carriers of organisms injurious to man and the domestic animals. Three lectures, first term. Three credits.

Tu. Th. Sat. 9:20

10. **Civic Health.** The sanitary necessities of a community: the improvement of the water system of the city, waste disposal, and the spread of contagious diseases. Each student scores a town on sanitation and cleanliness, compiles data from
his notes, and submits a complete report. Three lectures, second term. Three credits.

Tu. Th. Sat. 9:20

11. Research upon topics of special interest; such as eugenics, ecology, and morphology. Thesis. Hours to be arranged. See Entomology, page 96, for related work.
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*1 AS EXPONENT FIRST TERM ONLY  || FIGURES AS EXPONENTS SECTION || SMALL LETTERS HIGH SCHOOL COURSES
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**Notes:**
- "As exponent" = Second term only.
- "As figure = Capital letters = Days of week.
- "As figure = First term only. Figures as exponents = Section.
- All subjects shall be examined in the schedule.
- Group of which they form a part.
## Twenty-Second Annual Commencement

**June, 1915**

**GRADUATES WITH DEGREES**

**Bachelor of Science in Agriculture**

**Agricultural Engineering**

- Forbes, Clarence H. ................................................................. Ogden
- Jones, John Lewis ................................................................. Monroe
- Morrill, Rupert ................................................................. Circleville
- Nelson, Olof Henry .............................................................. Logan
- Nuttall, Leonard Gower ........................................................ Logan

**Agronomy**

- Barron, George Lufkin .......................................................... Logan
- Butt, Newbern Isaac ............................................................... Lehi
- Darley, Archibald Eckersell .................................................. Wellsville
- Finley, John Ford ................................................................. Springfield
- Hodapp, Frederick ............................................................... Salt Lake City
- Horsley, Golden Stewart ....................................................... Brigham
- Huffaker, Rawsel Vernon ....................................................... Tooele
- Olson, Daniel Foss ............................................................... Murray
- Robinson, Jesse Skeen ........................................................ Paragoonah
- Rowe, Ross Thomas .............................................................. Spanish Fork
- Sargent, David Leroy .......................................................... Hoytsville
- Sells, Albert Edward ........................................................ Nephhi
- Smith, David Winter ........................................................ Salt Lake City
- Tanner, George Leroy .......................................................... Whitney, Idaho
- Taylor, Aseauel Joseph ......................................................... Willard
- Thatcher, Franklin Davis ...................................................... Logan
- Tuttle, Lloyd Wayne ............................................................. Manti

**Animal Husbandry**

- Daniels, Shirley K. ............................................................... Vernal
- Egbert, Archibald Duncan ....................................................... Logan
- Eldredge, Ben Robertson ....................................................... Salt Lake City
- Nielsen, Wilford Eugene ........................................................ Richfield
- Perry, Stephen Cecil ............................................................. Ogden
- Stewart, Eugene Fitzgerald .................................................. Logan

**Botany**

- Cook, Alfonzo Laker ............................................................... Logan

**Chemistry**

- Benson, John Phineus ........................................................ Newton
- Christiansen, Nels Woodruff .................................................. Mayfield
- Cotter, Clarence Edward ...................................................... Lehi
- Smith, Edwin Stratford ........................................................ Logan
AGRICULTURAL COLLEGE OF UTAH

Entomology
Davidson, Leonard Leopold ........................................ Ogden
Jones, Earl Thomas .................................................. Lehi

Horticulture
Knudson, Jack Floyd .................................................. Brigham
Walker, John Basil ................................................... Sandy
Williams, Hugh .......................................................... Salt Lake City

Commerce
Alleman, Joseph Glenn ................................................ Springville
Ellsworth, Orba ....................................................... Rigby, Idaho
Lee, Eli Forsgren ...................................................... Brigham
Packard, David Russell ................................................ Springville
Thorpe, Verne Bradshaw ............................................... Cardston, Alta., Canada

General Science
Barrett, Alonzo Thomas ............................................... Logan
Casto, George Daniels ................................................ Manti
Goodwin, Annette ...................................................... Logan
Hinckley, Ellen Rowberry ............................................ Logan
Larsen, Rudolph Victor ............................................... Smithfield
Merrill, Ruel Derby .................................................... Price
Nelson, Etta .............................................................. Logan
Pace, Barbara ............................................................ Logan
Wood, John Karl ........................................................ Logan

Home Economics
Barker, Nellie ............................................................ Ogden
Benson, Hedvig ........................................................... Logan
Clayton, Christine Bockholt ......................................... Salt Lake City
Cooper, Veda Gwen ..................................................... Brigham
Cutler, Ethel .............................................................. Preston, Idaho
Elder, Lillian Sibyl ..................................................... Salt Lake City
Hansen, Hortense Luella ............................................. Salt Lake City
Maughan, Inez .......................................................... Logan
Maughan, Lavinia ........................................................ Logan
Kunz, Lottie Halls ..................................................... Logan
Morrison, Alice .......................................................... Brigham
Mouritsen, Emma Luella .............................................. Logan
Peterson, Mattie Othelia ............................................... Logan
Richardson, Lovina ..................................................... Smithfield
Skidmore, Rozina ........................................................ Richmond
Webb, Effie ............................................................... St. George
White, Etelka .............................................................. Beaver
White, Hettie Marvin ................................................... Beaver

Mechanic Arts
Passey, Edward John ................................................... Logan
Pendleton, John Henderson .......................................... Parowan
Swenson, Dan Arthur .................................................. Logan
Honors, 1914-15

Scholarship. In order to encourage high scholarship the college council has instituted a College Roll containing the names of all students doing excellent work. This roll is divided into two groups: the first contains the names of those who have A or B in all their work; the second, the names of students who have A or B with one C.

For the year 1914-1915 the following students were selected from the College Roll as deserving special distinction for high achievement in scholarship. They were, accordingly, publicly honored by receiving either a "Scholarship A" or "Honorable Mention" for scholarship:

Scholarship "A:"

- Lavina Maughn
- S. J. Quinney
- Geo. D. Casto
- Harold Peterson
- Inez Maughn
- Erma Debora Adams
- Moses F. Cowley
- N. W. Christensen

Honorable Mention:

- Jos. Ira Anderson
- D. A. Freedman
- Lavina Richardson
- Lottie Kunz
- C. E. Cotter
- J. P. Benson

Debating. The following students represented the U. A. C. in intercollegiate debate:

- Joseph S. Quinney
- Julius B. Bearson
- George D. Casto
- Irvin T. Nelson
- Wilfred F. Heyrend
- J. Howard Maughan
- Harold Peterson
- William J. Starley

Oratory. The Hendricks medal and that offered by The Sons of the American Revolution were won by:

- George D. Casto
- Moses F. Cowley
Student Body Officers:

J. Howard Maughan, President
Gladys Christensen
Goldie Faux
A. C. Carrington
Asael J. Taylor
Veda Cooper
Olof Nelson
John F. Wooley
Grover Lewis
Lloyd Tuttle
Leonard Davidson
Julius B. Bearnson
George L. Barron
John Sharp

Student Life Staff:

David W. Smith, Editor
Julius B. Bearnson
Leonard Davidson
Langton Barber
Eastman Hatch
Mabel Spande
LeRoy Hillam
Arthur Caine
Edwin Winder
Fred Braithwaite

Battalion Roster, 1914-1915:

Field and Staff Officers

J. Eastman Hatch, Major
Lynn Hale, 1st Lieut. and Adjutant
S. W. Riter, 2d Lieut. and Quartermaster
L. McCullough, 2d Lieut. Casual Officer

Non-Commissioned Staff Officers

L. B. Hatch, Sergeant Major
R. H. Maughan, Color Sergeant
E. C. Lorentzen, Quartermaster Sergeant
G. Clawson, Trumpeter Sergeant.

Band

Guy B. Alexander, Principal Musician
Storm McDonald, Drum Major
Company A
Capt. F. W. Thomas
First Lieut. S. M. Budge
Second Lieut. Donald Mayne
First Sergeant J. Blickensderfer
Sergeant Reuben Jonsson
Sergeant A. C. Hatch
Sergeant Mark Earl
Corporal Preston Budge
Corporal C. W. Nisson
Corporal C. F. Richards
Corporal C. H. Cook

Company B
Capt. J. E. Otte
First Lieut. Victor Hendricks
Second Lieut. Harold Peterson
First Sergt. A. Lindquist
Sergt. R. Hansen
Sergt. R. A. Smith
Sergt. O. Wahlen
Corporal L. Hafen
Corporal D. C. Merrill
Corporal Victor Lindblad

Company C
Capt. J. C. Odell
First Lieut. J. M. Sampson
Second Lieut. A. W. Anderson
First Sergeant M. F. Cowley
Sergt. Orson Bagley
Sergt. D. Nichols
Sergt. G. W. Thain
Corporal J. C. Knudsen
Corporal B. A. Meek
Corporal Ivor Sharp
Corporal F. L. Whitear

Company D
Capt. T. H. Morrell
First Lieut. B. H. Alexander
Second Lieut. J. M. Woodhouse
First Sergeant George Barber
Sergt. L. E. Crookston
Sergt. L. R. Riter
Sergt. L. Seeley
Corporal E. A. Bjorkman
Corporal D. A. Freedman
Corporal B. Tanner
List of Students, 1914-1915
(Not including Farmers' Roundup and Housekeepers' Conference)

In the following list "a" stands for agriculture; "ae" for agricultural engineering; "ho" for home economics; "c" for commerce; "ma" for mechanic arts; "g" for general science; "m" for music; "ss" for summer school; "w" for winter course; "G" for graduates; "S" for seniors; "j" for juniors; "So" for sophomores; "F" for freshman; "Sp" for special; "O" for optional; "4" fourth year; "3" third year; "p" for practical course.

Abplanalp, William, ss ......................................................... Devils Slide
Acheson, Palmer Spear, g-Sp .................................................. Salt Lake City
Acord, Earl, g-F ................................................................. Castle Dale
Adams, Erma Debora, c-3 ....................................................... Logan
Adams, Jeanette, ss .............................................................. Logan
Adams, Venice, ss ................................................................. Logan
Aldous, Clarence M. ss. a-Sp ..................................................... Sterling, Idaho
Aldous, Tura Merrill, g-J ....................................................... Sterling, Idaho
Alexander, Blaine H. a-3 ....................................................... Heber
Alexander, Guy Becker, g-Sp ................................................... Heber
Alleman, Jos. Glen, c-S .......................................................... Springville
Allen, Erma, ho-F ................................................................. Logan
Allen, Geo. M. g-3 ................................................................. Wellsville
Allen, Jeanette, g-Sp .............................................................. Kingston
Allen, Leda, ho-P ................................................................. Cove
Allen, Lillian, ho-F .............................................................. Kingston
Allen, Robert Leslie, a-So ...................................................... Grayson
Allen, Sarah, ss ................................................................. Cove
Allen, William J. ss .............................................................. Wellsville
Allred, Clark, a-F ................................................................. Deseret
Alvord, Harold Stevens, c-P ................................................... Logan
Alvord, Lewis, c-W ............................................................... Logan, Utah
Anderson, Alfred G., g-F ....................................................... Logan
Anderson, Andrew W., a-J ...................................................... Fairview
Anderson, George Ernest, a-P ................................................ Richmond
Anderson, H. P., a-G ............................................................. Hyrum
Anderson, James Ira, ma-F .................................................... Ogden
Anderson, Joseph C., ma-W .................................................... Logan
Anderson, Mirl, ho-J .............................................................. Brigham
Anderson, Verna, ss ............................................................. Ogden
Andrews, Michael J., ss ........................................................... Tooele
Andrus, Lynn, ae-G ............................................................. Mammoth
Askew, Wm. James, a-3 ......................................................... Bingham Canyon
Atkinson, Earl Joseph, g-3 ..................................................... Logan
Bachman, Albert, a-F .......................................................... Santaquin
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AGRICULTURAL COLLEGE OF UTAH

Crook, Ray, a-F
Crook, Wm. C., a-Sp
Crookston, Laurn E.
Curtis, Heber A., ae-F.
Cutler, Ethel, ho-Sp
Cutler, Everett W., g-F
Dahle, John Leon, p-W
Daines, Clyde J., c-Sp
Daines, Carmen, ss
Daines, LeVer H., c-Sp
Dalley, Margaret, ss
Dalton, Eugene S., a-F
Dana, Sarah, ss
Daniels, Alda, ho-Sp
Daniels, Shirley K., a-S
Danielson, Elva E., ho-Sp
Danielson, Esther, ss
Darley, Archibald E., a-S
Datwyler, Elizabeth, g-Sp
Davenport, Ethel, ss
Davidson, Georgia Mae, ho-So
Davidson, Leonard L., a-S
Davidson, Martha, ho-Sp
Davidson, Myrtle, ho-J
Davis, Joseph L., c-P
Daw, Royal H., ss
Day, Myrtle, ho-P
Dean, Lee, a-F
Dinsmore, Florence E., ho-J
Done, Iva, ss
Doney, Wm., aSp
Dorton, Virgil, a-J
Doutre, Edith D., ho-J
Doutre, Wm., c-J
Dudley, Park, ma-3
Dunford, Carlos L., a-Sp
Dunford, George M., c-So
Dunford, Grover C., c-J, ss
Dunford, Rachel, ss
Durrant, G. Elmo, ma-Sp
Eames, Ezra, g-So
Earl, Eva, ho-P
Earl, Homer Mark, c-3
Eccles, Emma, ho-3
Eccles, Jesse S., g-So
Eccles, Spencer S., c-So
Edlefsen, Edlef, a-So
Edwards, Edward C., g-3
Edwards, Douglass, a-W
Edwards, Frank R., ma-W
Edwards, Geo. W., a-F
Edwards, Mae, c-J
Egbert, Archie, ss. a-S

Smoot, Arizona
Heber
Preston, Idaho
Salt Lake City
Logan
Preston, Idaho
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Salt Lake City
Richmond
Bingham
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Providence
Idaho Falls
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Panaca, Nevada
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Egginton, Elizabeth, ss ..................................... Ogden
Eichnor, George, ss ......................................... Salt Lake City
Elder, Lillian S., ss, ho-S ................................. Salt Lake City
Eldredge, Winnifred, ho-3 ................................. Panguitch
Ellis, Rebecca, c-3 .......................................... Logan
Ellsworth, Annie, ho-P ..................................... Rexburg, Idaho
Ellsworth, Edmund F., c-P ................................ Rigby, Idaho
Ellsworth, Genevieve, ho-3 ................................. Rigby, Idaho
Ellsworth, J. Orval, a-S .................................. Rexburg, Idaho
Ellsworth, Orba, c-S ........................................ Rigby, Idaho
Elmer, Arthur, ma-W ...................................... Logan
Empey, Homer, c-W ........................................ Idaho Falls
England, Virginia, ho-3 .................................. Logan
Erickson, Vernon, a-F ...................................... Richfield
Esplin, Alma, a-J ........................................... Orderville
Esplin, Eleanor, ho-Sp ..................................... Orderville
Esplin, Kezia, ho-Sp ......................................... Orderville
Evans, Geo. A., a-F ........................................ Lehi
Evans, Wm. Henry, a-J .................................... Springville
Everton, Edgar, g-So ....................................... Logan
Ewing, Scott Preston, g-3 ................................ Smithfield
Fairbanks, Ervon H., a-P ................................ Salt Lake City
Farnsworth, Jos. H., ma-W ................................ Coalville
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Faux, Goldie, ss ho-S ...................................... Moroni
Felsted, Ione, ho-F .......................................... Ogden
Fenn, Earl, a-P ............................................. Salina
Finley, John, ss., a-S ...................................... Brigham
Fishburn, Hope, g-J ........................................ Meadow
Fisher, Asael, ma-Sp ....................................... Bingham
Fitzgerald, Berton M., ma-So ............................. Ogden
Fletcher, David, S., c-J ................................... St. Anthony
Fogg, Luella, ho-Sp ........................................ Logan
Fonnesbeck, Luna, ho-J .................................... Logan
Forbes, Clarence H., ma-S ................................ Ogden
Fordham, Albert, a-Sp ..................................... Santa Clara
Forsgren, Eli S., a-Sp ....................................... Logan
Fower, David H., ss ......................................... Logan
France, Horace R., ma-W ................................ Providence
Frank J. Austin, ma-W .................................... Salt Lake City
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Frew, Arnold, a-J ........................................... Hope
Frogner, Sybil, ho-F ....................................... Hyrum
Frost, Anna, ss ............................................. Ephriam
Fullmer, Frances, ho-P .................................... Rexburg, Idaho
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Graff, Emil J., a-F...................................................... St. George
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Greenhalgh, Harrison F., c-Sp...................................... Bloomington, Idaho
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Griffin, Amos R., a-G.................................................... Newton
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Griswaold, Jas. G., g-F................................................. Deeth, Nevada
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Grover, Jesse R., a-P................................................... St. Anthony, Idaho
Gurr, Laura, ho-F........................................................ Parowan
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Hafen, Leland, a-F..................................................... Santa Clara
Hagan, Harold R., a-G.................................................. Salt Lake
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Hall, Leroy, a-F........................................................ Hyrum
Halling, Bertha, ss...................................................... Geneva
Halling, Rosetta, ss..................................................... Geneva
Halton, Harry John, a-F............................................... Salt Lake
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Hammond, Floyd A., ae-J............................................... Logan
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Hansen, Ezra Leo, ma-W............................................... Logan
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Hardy, Leon, a-P........................................................ Salt Lake
Harmer, Floss, ho-Sp................................................... Springville
Harmon, Irving W., a-So........................................ St. George
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Harper, Florence, ss........................................ Pleasant Grove
Harrington, D. T., a-Sp........................................ Salt Lake
Harris, Edward D., a-F........................................ Beaver
Harris, Lawrence E., a-F........................................ Ogden
Harris, Walter M., c-3........................................ Superior, Wyoming
Harris, Wanda, ss........................................ Fielding
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Howells, Byron, c-So........................................ Oakley, Idaho
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Hubbard, Eliza, ss........................................ Willard
Hubbard, Milton E., c-Sp........................................ Willard
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Johnston, Susie, ho-F.............................................. Panguitch
Johnston, Wallace, g-Sp.......................................... Panguitch
Johnston, Jesse, ma-Sp............................................ Logan
Jones, Clarence, a-W............................................... Lehi
Jones, David W., Jr., a-J........................................ Malad, Idaho
Jones, Earl T., a-S................................................... Lehi
Jones, Eliza A., ho-J................................................ Newton
Jones, Hyrum P., g-So.............................................. Enoch
Jones, John L., ae-S................................................ Monroe
Jones, Joseph P., a-Sp............................................. Wellsville
Jones, Mary, ho-P.................................................... Newton
Jones, Retta, ho-So.................................................. Monroe
Jones, R. M., a-So.................................................... Almo, Idaho
Jonsson, Reuben, a-F............................................... Logan
Judd, Lyle P., a-F..................................................... Salt Lake City
Kapple, Chas. Dixon, g-F........................................... Payson
Kay, Lucinda............................................................ Tremonton
Kearl, Burton, ae-Sp............................................... Smithfield
Keller, Angus J., ma-W.............................................. Logan
Keller, Claudius, a-P................................................ Logan
Kelsey, Effie, ss....................................................... Springville
Kent, Meredith, ss.................................................... Logan
Kidgel, Fred C. Jr, c-P............................................. Logan
Kidgel, Lily, ho-3..................................................... Logan
Kimball, Smith, a-Sp............................................... Salt Lake
King, Eliza, ss.......................................................... North Logan
Kingsford, Helga, ho-P.............................................. Franklin, Idaho
Kirkbride, Jas. W., ss-g-Sp........................................ Smithfield
Kirkham, Ebenezer John, a-F..................................... Lehi
Kirkham, James A., a-F............................................. Lehi
Kline, Ernest K., ma-W............................................. Salt Lake
Klophaak, Peter J., a-W............................................. Logan
Kloepfer, Rachel, ho-Sp............................................ Logan
Knudson, Earl J., c-J............................................... Brigham
Knudson, Jonathan Chester, c-F................................. Brigham
Knudson, J. Floyd, a-S............................................. Brigham
Kofoed, John Archie, a-F........................................... Preston, Idaho
Korupkat, Tirzah, ho-Sp............................................ Logan
Kowallis, Otto, ss..................................................... Logan
Kunz, Hyrum S., ma.................................................. Logan
Kunz, Lottie, ho-S.................................................... Logan
Kunz, Orson J., ma-P................................................. Logan
Larsen, Andrew O., g-J............................................. Ferron
Larsen, Estella, ho-P................................................ Logan
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Larsen, Hazel, ho-Sp................................................ Logan
Larsen, Iva D., ho-So................................................ Ephraim
Larsen, Naomi, ho-3................................................ Logan
Larsen, Parley, a-W.................................................. Logan
Larsen, Roldo, ma-P................................................... Axtell
Larsen, Rudolph V., g-S, ss....................................... Smithfield
Larsen, Vera, c-3..................................................... Mendon
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Martineau, Claire, ho-Sp ........................................ Logan
Mathisen, Anna Marie, ss ........................................ Logan
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Maughan, Edward L., a-3 ........................................ River Heights
Maughan, Howard J., a-G ........................................ Logan
Maughan, Inez, ss-ho-G ........................................ Logan
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Maughan, Merrill O., ss .......................................... Logan
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Maughan, Russell L., a-Sp ....................................... Logan
Mayer, Clifford A., ae-S ........................................ Logan
Maye, Donald, a-F .................................................. Bingham
Meeke, Benj. A., a-F .............................................. Logan
Meeke, Heber, a-F ................................................... Logan
Meikle, Candus, ho-P ............................................. Cache, Idaho
Merrill, Don C., a-F .............................................. Richmood
Merrill, Gladys, ho-Sp ............................................. Smithfield
Merrill, Harrison R., g-Sp ....................................... Logan
Merrill, John C., a-3 .............................................. Logan
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Merrill, Vera S., ho-So ............................................. Logan
Merrill, W. Paul, a-O .............................................. Logan
Midgley, Irene, ho-F .............................................. Salt Lake
Miles, Rae, ho-Sp .................................................. Smithfield
Miles, Zina, ho-Sp .................................................. Smithfield
Miller, Frank, a-W .................................................. Wellsville
Miller, Henry N., a-W .............................................. American Fork
Minei, James A., a-So .............................................. American Fork
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Mohr, Anna, ho-J .................................................... Logan
Mohr, Andrew, ma-W ............................................. Logan
Mohr, Ernest, a-S .................................................... Logan
Milen, Ronald L., a-P .............................................. Arco, Idaho
Molen, Verda, ho-Sp .............................................. Arco, Idaho
Molyneux, Clyde, a-W ............................................. Logan
Monks, Frank, ma-Sp ............................................. Midway
Monroe, Florence, ss .............................................. Logan
Montgomery, Dorothy, ss ........................................ Alliance, Neb.
Monson, LeRoy, c-So .............................................. Logan
Monson, William A., c-S ........................................... Logan
Moosman, J. H., ma-W ............................................. Richfield
Morgan, Kate, ss ...................................................... Logan
Morrell, Della, g-G .................................................... Logan
Morrell, Thos. Heber, a-F ......................................... Logan
Morrell, Rupert, ae-S ............................................. Circleville
Morris, Ed. W., c-S ................................................. Rockland, Idaho
Morrison, Alice, ho-S .............................................. Brigham
Mosier, Erwin, ss ..................................................... Logan
Moss, Elmer H., a-P ................................................. Woods Cross
Mortenson, Lowell J., ss ......................................... Brigham
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Olsen, Daniel F., a-S ........................................ Logan
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Oleson, Victor L., a-Sp ...................................... Salt Lake
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Otto, Jos. E., a-Sp ............................................ Logan
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Pack, Herbert John, ss ......................................... Logan
Packard, D. Russell, c-S ...................................... Springville
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Payson, Kenneth, ae-J ........................................ San Diego, Cal.
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Pearson, Blain, c-W ........................................... Salt Lake
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Peterson, Nettie, ss ....................................... Logan
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Rawlins, Portia, ss ....................................... Draper
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Raymond, Goodwin, a-3 ................................ Smithfield
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Reece, Florence, ho-Sp ................................ Logan
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Reese, Wm. G., a-So ..................................... Benson
Reid, Hazel H., ss, ho-So ................................ Logan
Reid, Mac, ss ................................................ Preston
Rencher, John U., ma-F ................................ Tiffany, Colo.
Rencher, Una H., ho-So ................................ Tiffany, Colo.
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Rich, Emeline G., c-3 ........................ Logan
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Richards, Bert L., g-G ........................ Brigham
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Richards, Ezra F., Jr., g-So ..................... Farmington
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Richardson, J. Z., g-J ........................ Logan
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Robinson, John M., a-P ........................ Richmond
Rogers, Allie, ho-F ............................. Preston, Idaho
Rogers, Lucile, ho-3 ........................... Preston, Idaho
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Rosengreen, Enid, ho-3 ........................ Logan
Rosengreen, Ruth, ho-So ....................... Logan
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Rouse, John E., a-J ............................ Springville
Rowberry, Lillian, ss .......................... Grantsville
Rowe, Ross T., a-S ............................. Spanish Fork
Rowley, Thorvald Y., a-W ...................... Logan
Ruff, Enid, ho-F ............................... Logan
Ruud, Lester, c-P ............................... Logan
Ruud, Norman, c-W ............................ Logan
Ryberg, Edith, ss .............................. Logan
Sadler, Leda, ss ............................... Draper
Salisbury, Jos. G., a-S ........................ Logan
Sampson, J. Milton, a-3 ......................... Idaho Falls, Idaho
Sargent, David L., a-S ........................ Hoytsville
Schaub, Gordon C., ss ........................ Logan
Scholes, S. F., ss .............................. Logan
Schow, Fred S., g-So ........................... Richmond
Schvaneveldt, Jos. H., a-W ..................... Logan
Seeley, Lyman, a-F ........................... Mt. Pleasant
Sells, Albert E., a-S ........................... Nephi
Sevy, Pearl, ho-F ........................................ Richfield
Sharp, Ivor, g-F ........................................ Vernon
Sharp, John A., a-G ....................................... Vernon
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Shelley, Percy N., a-G .................................... Logan
Shipley, Earl, a-3 ......................................... Paradise
Shipley, Elizabeth, ho-Sp ................................ Paradise
Shipley, Estella, ho-Sp ..................................... Paradise
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Sjoberg, Lawrence E., ma-W .............................. Millville
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Slaugh, Forest S., a-F ..................................... Vernal
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Smith, Leslie A., g-G ....................................... Logan
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Smith, Oralie Rose, ho-Sp ................................. Draper
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Smith, Ralph A., ae-3 ..................................... Logan
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AGRICULTURAL COLLEGE OF UTAH

SUMMARY OF ATTENDANCE

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Curve showing growth in attendance at the University Agricultural College during its life of twenty-five years. This data includes all students registered in extension work, summer school and in the College proper. Grand total of attendance for 55 years, 21,425 Students.
Illustrated descriptive circulars dealing with the work of the various Schools—Agriculture, Agricultural Engineering, Home Economics, Commerce, Mechanic Arts, General Science and Summer School—and with Student Activities, are published—WRITE FOR COPIES—the College Bulletins are issued quarterly.