1916

General Catalogue 1916

Utah State University

COLLEGE BULLETINS
ISSUED QUARTERLY. VOL. 16 NO. 1
MAY, 1916

CATALOG

OF THE

AGRICULTURAL COLLEGE OF UTAH

FOR

1916-1917

ENTERED AS SECOND CLASS MATTER, JULY 8, 1901
AT THE POST OFFICE, LOGAN, UTAH
UNDER THE ACT OF JULY 16, 1894

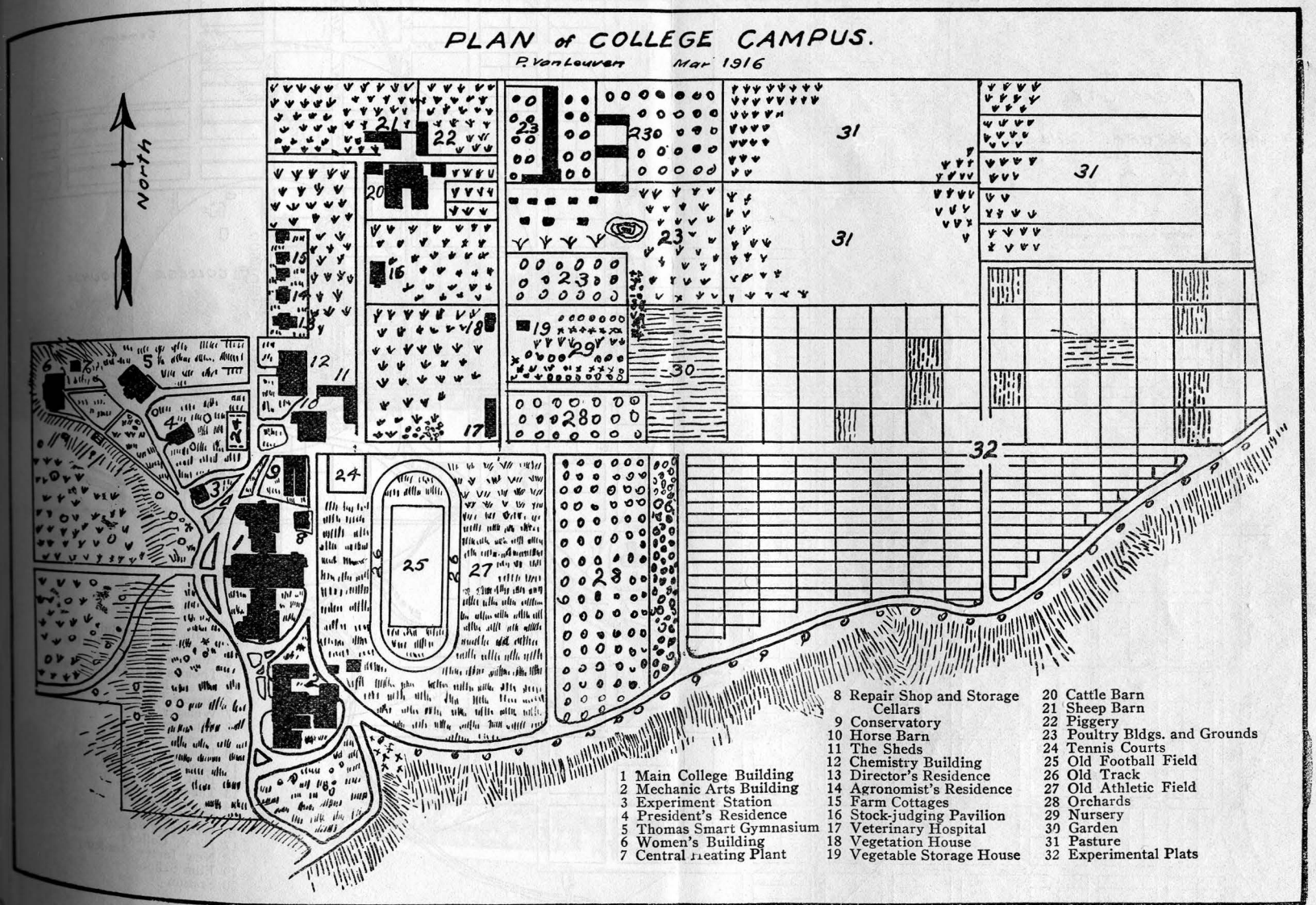
Vocational Distribution of Alumni

(Class of 1916 not Included)

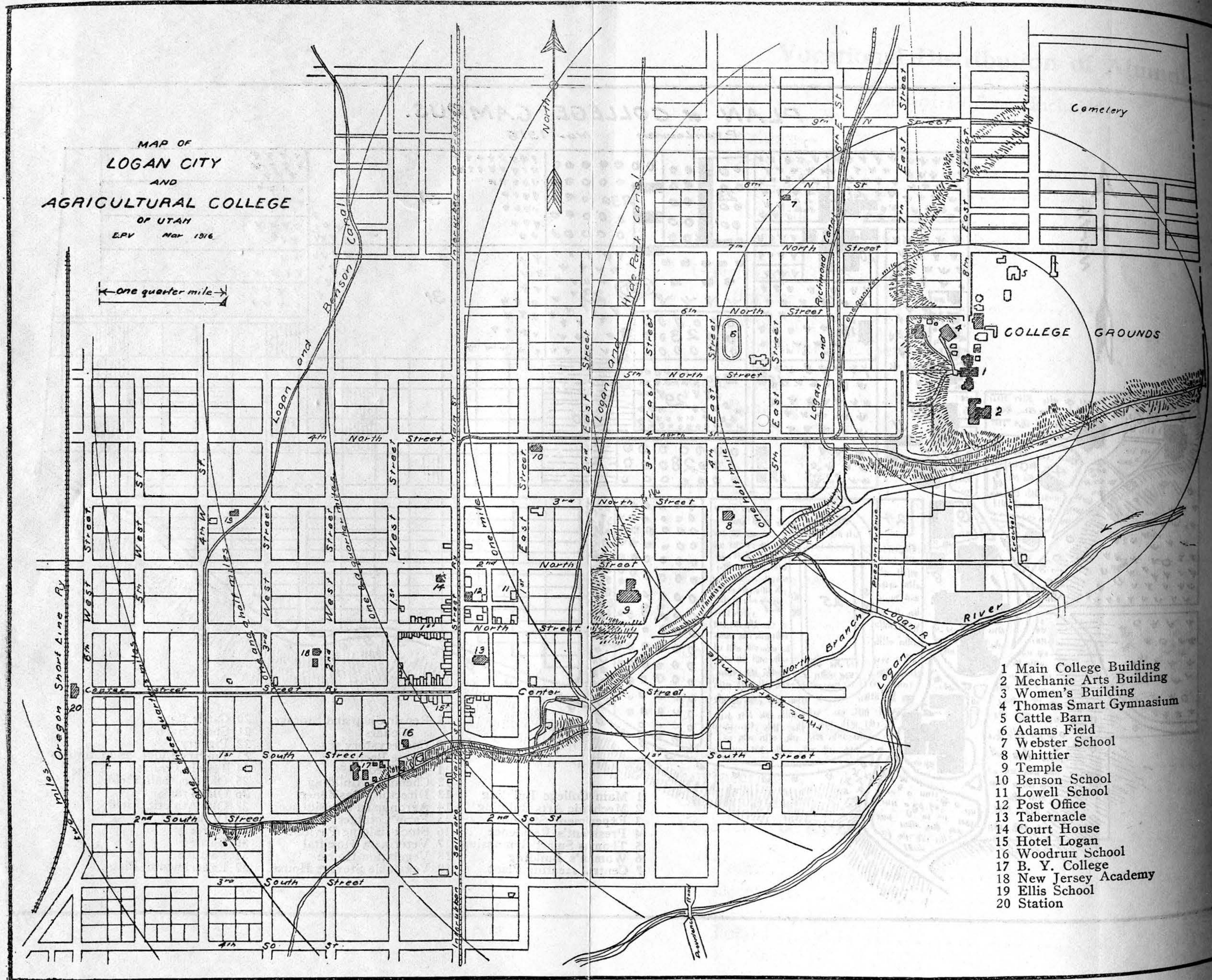
Agriculture—	
Farming	57
Agricultural Experts	27
Teaching Agriculture	93
Heads of Experiment Stations	1
Government, U. S.—	
Forestry	8
Irrigation	7
Agricultural Experts	13
Commerce—	
Banking	4
Business	47
Teaching Commerce	12
Home Economics—	
Housekeeping	57
Teaching Home Economics	56
General Science—	
Teaching	44
Medicine	5
Law	4
Doing Graduate Work	30
Mechanic Arts	8
Presidents of Colleges	2
Superintending Schools	21
Engineering	11
On Missions	5
Vocation Not Known	22
Total	534
Deceased	10
Total	544

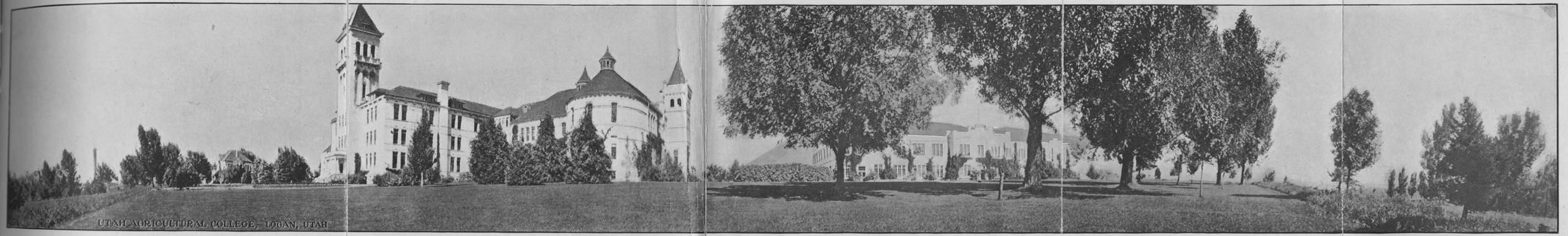
PLAN of COLLEGE CAMPUS.

P. VanLouven Mar 1916



1 Main College Building
2 Mechanic Arts Building
3 Experiment Station
4 President's Residence
5 Thomas Smart Gymnasium
6 Women's Building
7 Central Heating Plant
8 Repair Shop and Storage Cellars
9 Conservatory
10 Horse Barn
11 The Sheds
12 Chemistry Building
13 Director's Residence
14 Agronomist's Residence
15 Farm Cottages
16 Stock-judging Pavilion
17 Veterinary Hospital
18 Vegetation House
19 Vegetable Storage House
20 Cattle Barn
21 Sheep Barn
22 Piggery
23 Poultry Bldgs. and Grounds
24 Tennis Courts
25 Old Football Field
26 Old Track
27 Old Athletic Field
28 Orchards
29 Nursery
30 Garden
31 Pasture
32 Experimental Plats


MAP OF
LOGAN CITY
AND
AGRICULTURAL COLLEGE
OF UTAH
E.P.V Mar 1916
one quarter mile
North
Cemetery
COLLEGE GROUNDS
Logan and Benson Canal
Logan and Hyde Park Canal
Logan and Richmond Canal
Oregon Short Line Ry
Logan River
North Branch Logan R
Preston Avenue
Center Street
1st South Street
2nd South Street
3rd South Street
4th So St
2nd So St
1st North Street
2nd North Street
3rd North Street
4th North Street
5th North Street
6th North Street
7th North Street
8th N St
9th N Street
Main St
1st West Street
2nd West Street
3rd West Street
4th W St
5th West St
6th West Street
1st East Street
2nd East Street
3rd East Street
4th East Street
5th East Street
6th East St
7th East Street
8th East Street
one mile
one half mile
one quarter mile
one and a quarter miles
one and a half miles
one & three quarter miles
two miles
three quarters mile
1 Main College Building
2 Mechanic Arts Building
3 Women's Building
4 Thomas Smart Gymnasium
5 Cattle Barn
6 Adams Field
7 Webster School
8 Whittier
9 Temple
10 Benson School
11 Lowell School
12 Post Office
13 Tabernacle
14 Court House
15 Hotel Logan
16 Woodruff School
17 B. Y. College
18 New Jersey Academy
19 Ellis School
20 Station



MAIN BUILDING AND GROUNDS

STREET SCENE IN LOGAN

CATALOG

OF THE

AGRICULTURAL COLLEGE OF UTAH

1916-1917

TWENTY-SEVENTH YEAR

With List of Students for 1915-1916

LOGAN, UTAH

Published by the College
May, 1916

1916

JANUARY

S	M	T	W	T	F	S
..	..	..	..	..	..	1
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1917

JANUARY

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FEBRUARY

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MARCH

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MAY

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JUNE

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JULY

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AUGUST

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SEPTEMBER

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OCTOBER

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28	29	30	31	..	..	..
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NOVEMBER

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DECEMBER

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23	24	25	26	27	28	29
30	31	..	..	..	..	..

CONTENTS

College Calendar

FIRST TERM
1916

September 19, Tuesday	Entrance examinations. Registration of former students, and of new students admitted on certificates.
September 20, Wednesday	Classes organized .
November 11, Saturday	Agricultural Club Ball.
November 30, Thursday	Thanksgiving Recess.
December 11, Monday	Commercial Club Ball.
December 13, Wednesday	Oratorical Contest for the Medal given by The Sons of the American Revolution.
December 14, Thursday	Fraternity Melee.
December 15, Friday	Debating Try-outs.
December 23, Saturday	Christmas recess begins. School, Dec. 18.
January 2, Tuesday	Work resumed.
January 22 to February 3	Exhibition of Arts and Crafts by Utah Artists.
January 27, Saturday	Alumni Ball.
January 27, Saturday	First term ends.
January 29, Monday	College Play.

SECOND TERM
1917

January 30, Tuesday	Second term begins
February 12, Monday	Lincoln's Birthday .
February 14, Wednesday	Oratorical Contest for the Hendricks Medal.
February 21, Wednesday	Military Ball.
February 22, Thursday	Washington's Birthday.
March 31, Saturday	Junior Promenade.
April 16, Monday	Arbor Day.
April 18, Wednesday	"A" Day.
May 14, Monday	May Festival.
May 16, Wednesday	Senior Chapel.
May 23, Wednesday	Conferring of scholarship and other honors.
June 3, Sunday	Baccalaureate Sermon.
June 4, Monday	Summer School Begins.
June 4, Monday	Class Day.
June 5, Tuesday	Commencement and Alumni Ball.

ANNUAL FARMERS' CONVENTIONS AND HOUSEKEEPERS' CONFERENCES

Southern Utah—Monday, January 8, to Thursday, January 18.
U. A. C.—Monday, January 22, to Saturday, February, 3.
Southwestern Utah—Monday, February 5, to Thursday, Feb. 15.

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THOMAS SMART .....Logan
JOHN Q. ADAMS.....Logan
ELIZABETH C McCUNE.....Salt Lake City
J. W. N. WHITECOTTON.....Provo
JOHN DERN .....Salt Lake City
JOHN C. SHARP.....Salt Lake City
ANGUS T. WRIGHT.....Ogden
J. M. PETERSON.....Richfield
ANNIE K. HARDY .....Salt Lake City
GEORGE T. ODELL.....Salt Lake City
JOSEPH QUINNEY, JR.....Logan
DAVID MATTSON, Secretary of State, *Ex-officio*....Salt Lake City

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

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Committee on Mechanic Arts—John Dern, J. W. N. Whitecotton, Angus T. Wright.

Committee on Agricultural Engineering—George T. Odell, Thomas Smart, J. M. Peterson.

Committee on Home Economics—Elizabeth C. McCune, John Dern, Annie K. Hardy.

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, Annie K. Hardy, Elizabeth C. McCune.

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

Committee on Extension Work—Annie K. Hardy, 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., Annie K. Hardy.

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)

ELMER GEORGE PETERSON, A. M., Ph. D.
PRESIDENT

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, JR., B.S.
AUDITOR

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

JOHN THOMAS CAINE III, M.S.A.
DIRECTOR, EXTENSION DIVISION

FRANKLIN LORENZO WEST, Ph.D.
Professor of Physics

*The College Council consists of the President and all members of the Faculty with the rank of Professor, Associate Professor, or Assistant Professor.

†On leave.

FRANKLIN STEWART HARRIS, Ph.D.
DIRECTOR, EXPERIMENT STATION
Professor of Agronomy

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

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, FARM MANAGEMENT EXTENSION WORK
ASSISTANT DIRECTOR, EXTENSION DIVISION

GEORGE RICHARD HILL, Ph.D.
DIRECTOR, SCHOOL OF AGRICULTURE
Professor of Botany and Plant Pathology

JAMES HENRY LINFORD, D.Did.
DIRECTOR, SUMMER SCHOOL
SUPERINTENDENT, CORRESPONDENCE STUDY DEPARTMENT

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

NIELS 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

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Professor of Finance and Banking

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

FRANKLIN DAVID DAINES, A.M.
Professor of History

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Professor of Military Science and Tactics

ELEANOR MARY 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 McCHEYNE, B.S.
Professor of Home Economics, Extension

JOHN LEATHAM COBURN, B.S.
SECRETARY OF THE COLLEGE, AND PURCHASING AGENT

J. W. WATSON
Director of Athletics

RALPH ORLANDO PORTER, B.S., M.D.
Professor of Physiology; Medical Supervisor of Students

E. P. TAYLOR, M.S.
Professor of Horticulture

HAZEL LOVE DUNFORD, B.S.
Women's Adviser

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

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

EDWARD PARLEY PULLEY, B.S.
Assistant Professor of Mechanic Arts

AARON NEWEY, B.S.
Assistant Professor of Forging

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

LaGRANDE HUMPHERYS, B.S.
Assistant Professor of Farm Mechanics

GEORGE BALLIF CAINE, A.M.
Assistant Professor of Dairying

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

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

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Assistant Professor of Chemistry

WILLIAM SPICKER
Assistant Professor of Music

LUTHER MARTIN WINSOR, B.S.
Assistant Professor of Irrigation, Extension

LORIN ASA MERRILL, B.S.
ASSISTANT STATE LEADER, EXTENSION

BEN R. ELDREDGE, B.S.A.
Assistant Professor of Dairying, Extension

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

CLARKE EDWIN DAVIS, Ph.D.
Assistant Professor of Chemistry

SARA HUNTSMAN, B.S.
Assistant Professor of Elocution and Public Speaking

CHARLOTTE KYLE, A.M.*
Assistant Professor of English

DAVID EARLE ROBINSON, B.S.
Assistant Professor of English

WALTER EDWIN BROOKE, Ph.B.
Assistant Professor of Economics

BERT LORIN RICHARDS, B.S.
Assistant Professor of Plant Pathology

EDGAR BERNARD BROSSARD, B.S.
Assistant Professor of Farm Management, Extension

JOSEPH PRESTON WELCH, B.S.
Assistant Professor of Farm Management, Extension

HEBER JARVIS WEBB, B.S.
Assistant Professor of Farm Management, Extension

ORSON W. ISRAELSON, M.S.
Assistant Professor of Irrigation and Drainage

JOSEPH DEVONALD HOWELL
Instructor in Stenography and Typewriting

*On leave.

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

HOWARD JOHN MAUGHAN, B.S.
Instructor in Agronomy

GEORGE STEWART, B.S.*
Instructor in Agronomy

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

ELIZABETH UNDERWOOD
Instructor in Piano

GUY BECKER ALEXANDER
Instructor in Band

HAROLD RAYMOND HAGAN, B.S.
Instructor in Entomology

ALANDO BANNERMAN BALLANTYNE, B.S.
Instructor in Farm Management, Extension

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

MARTIN LOT HARRIS, B.S.
Instructor in Farm Management, Extension

CHARLES JAMES SORENSON, B.S.
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WILBUR EVANS THAIN, B.S.
Instructor in Accounting

HANS A. CHRISTIANSEN, B.S.
Instructor in Farm Management, Extension

SAMUEL E. CLARK
Instructor in Harmony

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

WILLIAM EMMETT GOODSPEED, B.S.
Instructor in Horticulture

LAVINIA RICHARDSON, B.S.
Instructor in Domestic Art

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

NEWBURN ISAAC BUTT, B.S.
Instructor in Agronomy

*On leave.

DON WARREN PITTMAN, B.S.
Instructor in Agronomy

PRESTON THOMAS, B.S.
Instructor in Farm Management, Extension

Secretary to the President

HATTIE SMITH
Assistant in Library

SANFORD LEROY BINGHAM
Instructor in Dairying

EZRA G. CARTER, B.S.
Instructor in Bacteriology

HANS P. ANDERSON, B.S.
Instructor in Bacteriology

DAN ARTHUR SWENSON, B.S.
Assistant in Woodwork

MILDRED DANIELS
Assistant in Dressmaking

Fellow in Agronomy

Fellow in Botany

Fellow in Zoology

VIOLET GREENHALGH, B.S.
Clerk, Experiment Station

ABBIE GROESBECK
Registrar's Clerk

ADA MITCHELL,
Secretary, Extension Division

GROVER CLEVELAND DUNFORD
Clerk, Secretary's Office

CHARLES BATT
Superintendent of Water, Heat, Sewerage and Lighting Plant

RASMUS OLUF LARSEN
Superintendent of Buildings

EMIL HANSEN
Superintendent of Grounds and Greenhouses

Experiment Station Staff

E. G. PETERSON, Ph. D. ..... President
F. S. HARRIS, Ph.D. ..... Director and Agronomist
WM. PETERSON, B.S. ..... Consulting Geologist
H. J. FREDERICK, D.V.M. ..... Veterinarian
E. G. TITUS, Sc.D. ..... Entomologist
F. L. WEST, Ph.D. ..... Meteorologist
W. E. CARROLL, Ph.D. ..... Animal Husbandman
J. E. GREAVES, Ph.D. ..... Bacteriologist and Chemist
BYRON ALDER, B.S. ..... Poultryman
G. R. HILL, Ph.D. ..... Plant Pathologist
E. P. TAYLOR, M.S. ..... Horticulturist
C. T. HIRST, M.S. ..... Associate 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. GOODSPEED, B.S. ..... Assistant Horticulturist
H. P. ANDERSON, B.S. ..... Assistant Chemist and Bacteriologist
B. L. RICHARDS, B.S. ..... Assistant Plant Pathologist
AARON F. BRACKEN, B.S. ..... Foreman, Nephi Farm
N. I. BUTT, B.S. ..... Assistant Agronomist
D. W. PITTMAN, B.S. ..... Assistant Agronomist
VIOLET M. GREENHALGH, B.S. ..... Clerk

Extension Division Staff

E. G. Peterson, A.M., Ph.D. ..... President of the College
John T. Caine III, M.S.A. ..... Director
Ida R. Mitchell ..... Secretary
Elin Jonson ..... Stenographer

AGRICULTURAL EXTENSION

SPECIALISTS

R. J. Evans, Ph.D. (In Charge) ..... State Leader
L. M. Winsor, B.S. ..... Irrigation and Drainage
Ben R. Eldredge, B.S.A. ..... Dairying
E. B. Brossard, B.S. ..... Farm Management
J. W. Paxman ..... Dry-Farming

COUNTY AGENTS

_____ ..... 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
Preston Thomas, B.S. ..... Weber County
Alma Esplin, B.S. ..... Iron County

HOME EXTENSION

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
Claire Parrish, B.S. ..... Girls' Clubs

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

Standing Committees

1916-1917

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

1. *Practical Courses*—Professors Wm. Peterson, P. E. Peterson, Saunders, Richards, Mr. Sorenson.
2. *Graduation.*—Professors Saxer, Carroll, Wilkinson, Greaves.
3. *College Publications*—Professors N. A. Pedersen, Arnold, Robinson, Ogburn, Huntsman.
4. *Attendance and Scholarship.*—Professors Titus, Linford, Santschi, Brooke, Davis.
5. *Student Affairs*—Professors ————, Fletcher, Powell, Linford, R. O. Porter, G. B. Caine, Miss E. Smith, Mr. Carter.
6. *Athletics*—Professors F. L. West, Wm. Peterson, Carroll, Santschi, Watson, Mr. Coburn.
7. *Publicity*—Professors Arnold, Saunders, Alder, Huntsman, Richards, Robinson, Mr. Hagan.
8. *Exhibits*—Professors Harris, Fletcher, Hansen, Cook, Alder, Taylor, Brooke, Israelson.
9. *Debating*—Professors Hendricks, Thomas, Porter, Pedersen, Daines, Ogburn, Miss E. Smith.
10. *Entrance Examinations*—Professors P. E. Peterson, Daines, Humpherys, Davis.
11. *Student Employment*—Professors George B. Caine, Greaves, Saxer, Powell, Humpherys, Newey, Johnson.
12. *Student Body Organization*—Professors Thomas, Titus, Carroll.
13. *Graduate Employment*—Professors Hill, Thomas, Harris, F. L. West, C. W. Porter.
14. *Schedule*—Professors F. L. West, Titus, C. W. Porter.
15. *Lyceum Course*—Professors Thomas, Spicker, Arnold, Pedersen, Hansen, Mr. Coburn.
16. *Editor of Catalog*—Professor N. A. Pedersen.

The Branch of the Agricultural College of Utah
at Cedar City

ELMER GEORGE PETERSON, A.M., Ph.D.
PRESIDENT

ROY F. HOMER, B.S.
PRINCIPAL

MYRTLE DECKER, A.B.
Instructor in English

ROBERT S. GARDNER, B.S.
Instructor in Iron Work and Mathematics

PARLEY DALLEY, B.S.
Instructor in Chemistry and Physics

ROBERT L. WRIGLEY, B.S.
Instructor in Agronomy and Horticulture
and Superintendent of Farms

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

JOHN S. CHRISTENSEN, B.S.
Instructor in Physical Education, Athletic Coach
Assistant Agr.

ROZINA SKIDMORE, B.S.
Instructor in Domestic Arts

JOHN H. MOSER
Instructor in Art, and Librarian

DAVID SHARP, JR., B.S.
Instructor in Animal Husbandry, and Farm Assistant

GENE COX
Instructor in Domestic Science

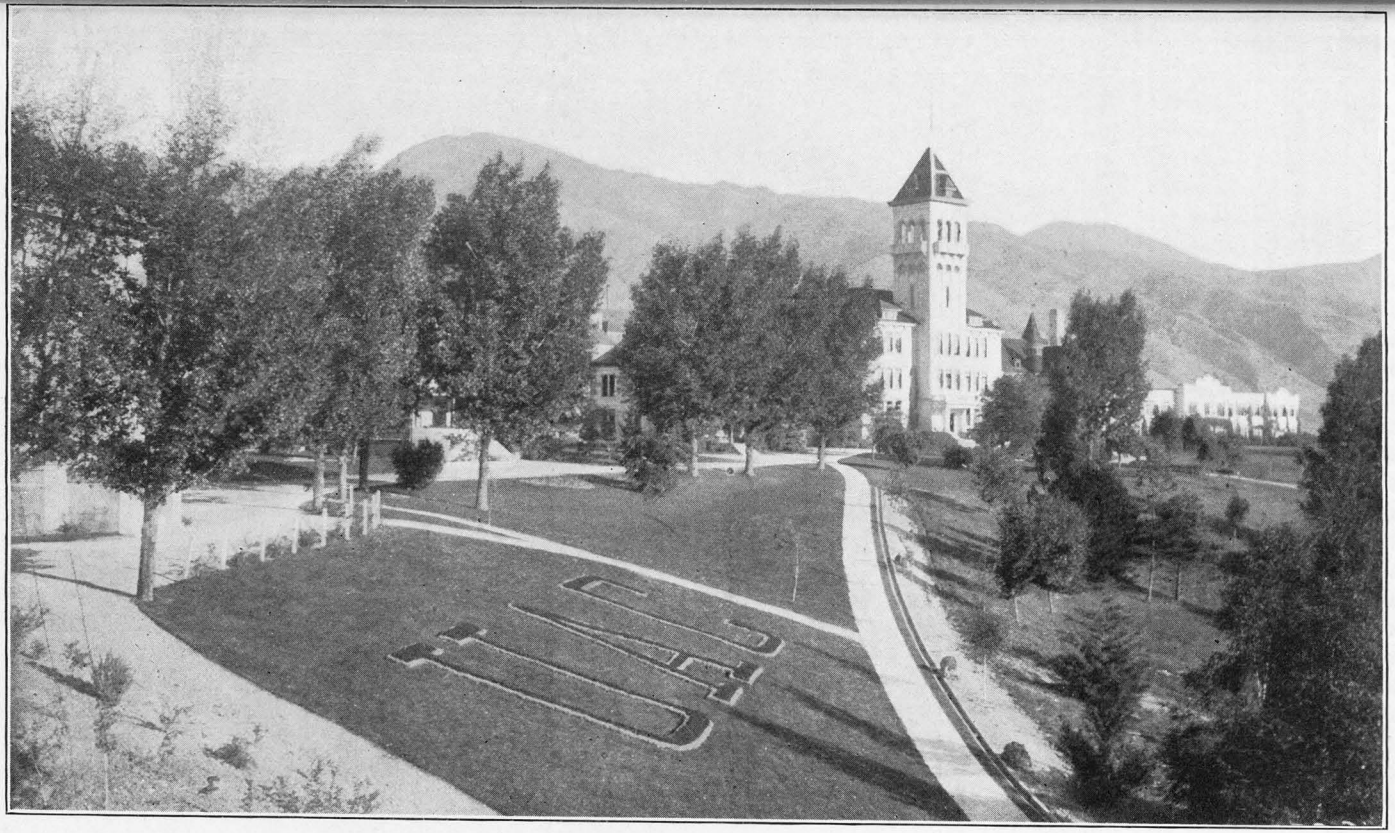
GILBERT L. JANSON, B.S.
Instructor in Commercial Subjects

JOHN H. PENDLETON, B.S.
Instructor in Wood Work and Mathematics

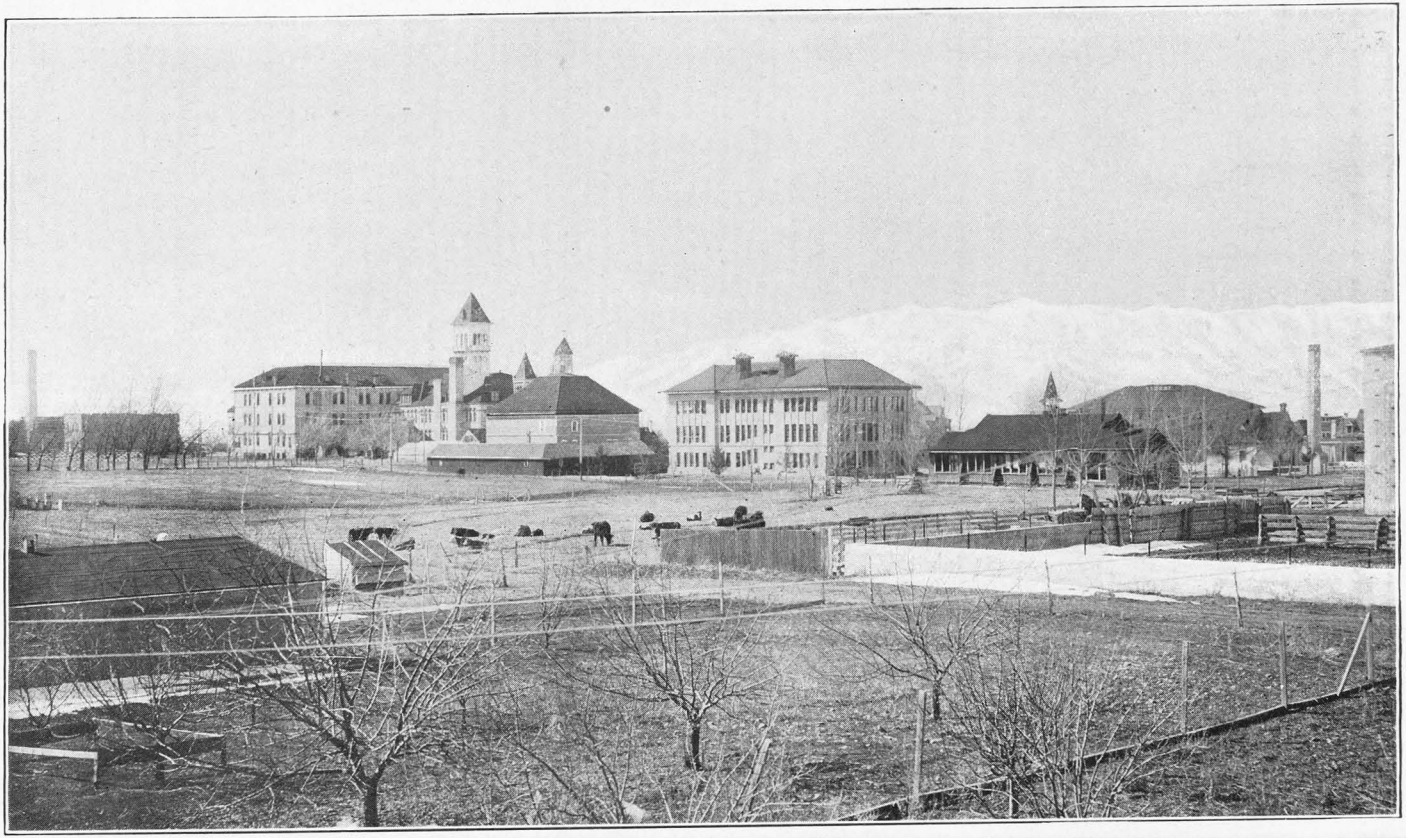
ALMA ESPLIN, B.S.
Instructor in Agriculture

Instructor Instrumental, Band and Orchestra

Instructor Vocal, Director Chorus, Clubs, Etc.



VIEW OF MAIN BUILDING FROM THOMAS SMART GYMNASIUM



REAR VIEW OF COLLEGE BUILDINGS

AGRICULTURAL COLLEGE OF UTAH

LOCATION

The Agricultural College of Utah is in Logan, the county seat of Cache county, one of the most prosperous agricultural counties in the State. The city has a population, thrifty and progressive, of about 10,700; it is comparatively free from vice, quiet, orderly, clean, and generally attractive, with neat homes, substantial public-buildings, electric lights, a sewer, and a water system. The main streets are paved and cement walks ramify the city; an excellent street-car line extends from the station to the College, and the interurban connects Logan with other towns of the valley as well as with Ogden.

The College, uniquely situated on a broad hill overlooking the city, one mile east of Main street, commands a view of the entire valley and surrounding mountain ranges. The site of the College was formed by the receding waters of prehistoric Lake Bonneville which built an enormous delta at the mouth of Logan canyon upon which the College buildings and farm are located. The beauty and geological significance of the location are perhaps unsurpassed. A few hundred yards to the south is the Logan river. A mile to the east is a magnificent mountain range with a picturesque canyon. In other directions are the towns and farms of Cache county distinctly visible thru the clear atmosphere. The valley is a fertile, slightly uneven plain, 4,600 feet above sea level, about twelve by sixty miles in dimensions, almost entirely under cultivation and 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 thoroly scientific. In addition to the practical work of the different courses, students are given thoro training in the sciences, mathematics, history, English, art, modern languages, and other related subjects. The object is to foster all that makes for right living, good citizenship, and high efficiency.

Under this general policy, the special purpose of the Agricultural College of Utah is to be of service in the upbuilding of the State and the great West to which it belongs. The instruction in agriculture and agricultural engineering, 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; instruction in mechanic arts, points out the most promising trades and teaches them so as to meet the needs of the State; that in commerce relates to the undeveloped resources and the present commercial conditions of the State, and investigates the principles and methods to be applied in the commercial growth of Utah; home economics, 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 1916-17, about $14,000 which will increase for five 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 2.4 mills, which is not to be exceeded, on 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; various 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.

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, in 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 and all members of the faculty holding the rank of professor, associate professor or assistant professor. 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, ranking professors, 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 are within the province of appropriate committees.

THE EXPERIMENT STATION STAFF consists of the President of the College, the Director of the Station, and the heads, with their assistants, of the departments of the Station. This body is employed in the investigation of problems peculiar to agriculture in this part of the country. It is further responsible for the circulation, 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 upon 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 September 1.

If the applicant's high school studies lack range, he must secure, before graduation from the college, the following high school units:

English	3 units
History	1 unit
Mathematics	2 units
Science	3 units
Electives	7 units
Total	16 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 47.

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, September 25, or be fined $2.50. Fifteen hours constitute a full college registration. A student may register, however, for sixteen hours by permission of the head of the school in which he is majoring. To register for eighteen hours requires the approval of the committee on graduation and scholarship. Only four-fifths of the record credit of a lettered course is allowed to college students. Practical course students may register for 20 hours. 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. A student who presented eleven units of high-school credit, and who entered college and completed one year's college work previous to September, 1914, and who has a total of 140 hours of college credit may graduate in 1917. After 1917 he must show sixteen high-school units and 120 hours if he wishes a degree in any course. (See Schedule of required work for graduation page 44.)

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. Thee 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 organized into departments, of co-ordinate authority, each of which

represents a somewhat definite field of knowledge. All officers of instruction or experimentation belong to one or another of these departments. One professor, designated head, carries the administrative responsibility of the department. At present the College maintains thirty-three departments as named on page 57.

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, and musical clubs.

3. *Theatricals.* In the past, *A Midsummer Night's Dream, She Stoops to Conquer, Pygmalion, Milestones,* and various other productions, have been presented.

4. *Debating and Public Speaking.* Triangular debating arrangements 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 the teams 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 for that given by The Sons of the American Revolution maintain

among the students an active interest in extemporaneous public speaking. For dates, see college calendar, page 5.

5. *Student Publications.* The students of the College, under the direction of the faculty of English, publish a weekly school paper, *Student Life.* The junior class publishes the College year book, named *The Buzzer.* The *Ag-Literose* is published by the Quill Club.

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

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 thruout 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 Chemistry Club, organized to promote interest in chemistry.

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

The Benedicts' Club, designed to promote the social welfare of married students and to lower their expenses by co-operative buying.

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

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

The Cosmos Club, organized for the study of world politics.

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 thruout the year, at some of which lectures are given by specialists.

Gamma Sigma Delta, a chapter of the national honorary fraternity for students in agriculture. Members are chosen for scholarship from the upper 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.

Various other clubs, as well as a number of fraternities and sororities, 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 laboratory credit hour. The total amount varies in each case in accordance with the courses taken, ranging from $2 to $15 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 the first 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 war department for $14.50 which must be deposited in full at registration. 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. Cost, about $5.

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

Good board and room in a private home costs from $4 to $5 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 $20 a year.

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

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

	Lowest	Average	Liberal
Tuition, books, fees, etc.	$ 40	$ 40	$ 40
Room and board	160	180	200
Incidentals or miscellaneous	25	70	135
Total	$225	$290	$375

By rigid economy, students have reduced their expenses below the lowest of these estimates.

BUILDINGS AND EQUIPMENT

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

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

THE WOMEN'S BUILDING is one of the largest and best equipped structures devoted entirely to domestic science and arts in the inter-mountain region.

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

THE EXPERIMENT STATION is a two-story brick structure 45 feet long and 35 feet wide, containing the offices of the station 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 wood-working department, machine shop, forging rooms, foundry, carriage building rooms, mechanic arts museum, drafting rooms, blue-printing room, room for painting and staining, and class rooms,—all well equipped.

Since this building is also the home of the Departments of Agricultural Engineering and Farm Machinery, it contains laboratories specially equipped for such work. The drawing rooms and shops of the Mechanic Arts department are accessible to students in agricultural engineering.

THE THREE-STORY CHEMISTRY BUILDING, thoroly modern in

plan and equipment, is occupied by the Department of Chemistry, Physics, and Bacteriology.

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

THE STOCK JUDGING PAVILION 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 incubator cellar is well supplied and modern.

THE GREENHOUSES are prepared for laboratory instruction in the propagation of horticultural plants, and in the practice of floriculture and vegetable gardening.

THE VETERINARY HOSPITAL contains a well-equipped dispensary, operating room, and stalls for patients.

EQUIPMENT

The Bacteriological Laboratory is well equipped with modern apparatus. To encourage careful work, the students are provided with individual lockers.

The Chemical Laboratories contain valuable collections of gums, oils, coloring matters, foods, etc., and are fitted with modern conveniences.

The Physical Laboratory Equipment is complete, consisting of all the necessary apparatus for class demonstration. Gas, water, compressed air, and continuous and alternating current electrical power are available.

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

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

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

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

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

The soil physics laboratory has a good supply of apparatus for accurate and up-to-date work.

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

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

The College Museum contains many specimens illustrative of geology, mineralogy, paleontology, and vertebrate and invertebrate zoology, including a large series of the insects of the inter-mountain 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 museum, are 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, easels and model stands, individual lockers, cases for materials, casts from the old masters in sculp-

ture, reproductions of great paintings, still-life models and draperies, as well as with a valuable collection of ceramics, textiles, and books on art.

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

The Library occupies the entire front of the second floor of the Main building, and contains about 30,000 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. 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 Stations are nearly complete; the bulletins are bound, and 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 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.

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.

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 for 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 another good. Acting on the suggestions thus obtained, the scientists begin new investigations, in the hope that truths of great value to the farmer may be discovered.

The Station confines its efforts as far as possible to the particular problems of the inter-mountain regions. Irrigation, the foundation of western agriculture, has received greatest attention. 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 develop-

ment 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. The Extension Division is the joint representative in Utah of the United States Department of Agriculture and the Utah Agricultural College.

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. Housekeepers' Institutes and Schools
   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

The departments of Farmers' and Housekeepers' 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 includes the work of the county demonstrators, also called agents and advisers, and that of the extension specialists. 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 cooperating with the experts at the College and with those 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 Clubs, conducted cooperatively with the United States Department of Agriculture, interest boys and girls in agriculture, home economics, and other industrial subjects, and serve 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 organization is the establishing of correspondence-study departments, in order to extend its activities to the fireside.

Correspondence-study furnishes an excellent opportunity for systematic instruction to the student preparing for high school or

college, the teacher, the professional or business man, club women, —to 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. Reading Courses for the farmer: Short, practical, non-credit courses in agronomy, animal husbandry, horticulture, farm machinery, bee-keeping, etc.
4. Reading Courses for the housewife: Short, practical, non-credit courses in sanitation, home management, cooking service, sewing, home decoration, home care of the sick, etc.
5. 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.

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 foods and dietetics, domestic art, 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, in addition to shorter trade courses, a four-year 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 44.*

THE SCHOOL OF AGRICULTURE

Agriculture is one of the most promising of modern professions. It is growing very rapidly, and owing to the scientific foundation that recent years have given it, large numbers of intelligent people are adopting it as their means of livelihood. The new agriculture is not a profession of unceasing toil. On the contrary, the freedom, health, intellectual activity, and profit to be obtained from intelligent farming are attracting the best classes of people. Utah and other western states are offering excellent

opportunities to those who prepare themselves for scientific farming. There is a great demand for men who can supervise large farm enterprises; there is a greater demand for men who can act as experts, experimenters or teachers in the schools and other institutions in the State and National Government. The supply of such men does not equal the demand.

Experience having shown that practically all of the students who take agriculture come from the farms, it is assumed that they are acquainted with the various manual operations of farm work. The design of the school is, therefore, to teach the sciences that underlie practical agriculture, and to offer sufficient supplementary studies to develop the agricultural student to the intellectual level of 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 45.

THE SCHOOL OF HOME ECONOMICS

The courses in Home Economics train and broaden the minds of women, enabling 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 instruction has been strengthened each year, and better facilities provided. The School comprises five departments,—namely, Foods 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, not wishing to take the studies of the regular college years, desire to devote more time to the subjects of special interest to them.

For majors and minors see page 46.

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; a two-year trade course in painting and interior decoration; and a four-year college course leading to the degree of Bachelor of Science. These afford opportunity for persons endowed with mechanical ability, 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 information offered finds application in every industrial activity, and is much demanded by the rapid growth in the mechanical and industrial pursuits. As more and more of the work of man is done by machinery and labor saving devices, it is desirable to obtain information that will enable 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 preparation than that offered in the mechanic arts courses. In the shops a knowledge of the nature of materials, methods of construction and operation of machinery, can be had better than elsewhere. The demand for manual training teachers is far in advance of the supply.

The drafting rooms give 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.

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 year's 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 46.

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 thruout 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 WORK REQUIRED FOR GRADUATION

A student must present 16 units of high-school work for entrance, and complete 120 semester hours of college work before receiving his diploma. *For graduation in* 1917, *see page* 23.
Of the required 120 hours, 16, forming the major, must be in one department. The minors 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 Subjects (must be in same school as the major subject)	12 "

General Division

Biological Science Group	12 "
Exact Science Group	24 "
Language Group	16 "
Social Science Group	12 "
Electives	28 "
Total	120 hours

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

REQUIRED WORK

Technical Division

Major, 16 hours in one department.

Minors, 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
Foods and Dietetics
Home Sanitation and Construction
Music

SCHOOL OF MECHANIC ARTS

Art
Iron Work
Mechanical Drawing
Machine and Automobile Work
Wood Work
Technology of Mechanic Arts

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 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

*May count towards a minor.

EXACT SCIENCE GROUP (24 hours)

Accounting
Chemistry
Geology and Mineralogy
Mathematics
Physics

LANGUAGE GROUP (16 hours)

English
French
German
Latin
Spanish

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 requires no prerequisites, but a person must be over eighteen years of age, or must have completed two years of high-school work. 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

First Term		*Second Term*	
Agronomy 1	3	Animal Husbandry 1	4
Horticulture 1	3	Irrigation 1	3
Veterinary Science 1	3	Entomology 1	3
Poultry 1	3	Dairying 1	3
Shop	5	Shop	5

HOME ECONOMICS

	1st Term	2nd Term
Domestic Art a and b	3	3
Domestic Science	5	5
Physiology 1	2	2
English a	5	5
Art	3	3
Gymnasium Work	1	1
Accounting 1	5	5

MECHANIC ARTS

	1st Term	2nd Term
Carpentry a and b	5	5
Forging a and b	5	5
Machine and Automobile Work	5	5
Mechanical Drawing	2	2

COMMERCE

FIRST YEAR

	1st Term	2nd Term
Business Correspondence and Commercial Arithmetic	5	5
Accounting a	3	3
Stenography a	5	5
Typewriting	1	1
Physical Education	1	1
	15	15

SECOND YEAR

English b	5	5
Accounting b	5	5
Stenography b	5	5
Penmanship a	1	1
Typewriting b	1	1
Drill	1	1
Elective	2	2
	20	20

THIRD YEAR

Accounting c	5	5
English c	3	3
Political Science 2	3	3
Drill	1	1
Electives	8	8
	20	20

TRADE COURSES

The electives should be chosen under the direction of department heads.

THREE-YEAR COURSES

Carpentry

FIRST YEAR

First Term		*Second Term*	
Carpentry a	5	Carpentry b	5
Tech.of M.A.6 (Shop Problems)	2	Tech.of M.A.6 (Shop Problems)	2
Mech. Drawing a	2	Mech. Drawing b	2
Art 2	2	Art 2	2
Tech. of M. A. 1 (Survey of Trades)	2		

SECOND YEAR

Carpentry 1	5	Carpentry 2	5
Mech. Drawing 1	2	Mech. Drawing 1	2
Art 26	2	Art 26	2
Tech. of M. A. 7 (Materials)	3	Tech of M. A. 4 (Wood Finishing)	3

THIRD YEAR

Carpentry 3	5	Carpentry 4	5
Tech. of M. A. 5 (Contracting)	3	Tech. of M. A. 5 (Contracting)	3
Art 27	2	Mech. Drawing 7	2

Forging

FIRST YEAR

First Term		*Second Term*	
Forging a	5	Forging b	5
Tech.of M.A.6 (Shop Problems)	2	Tech.of M.A.6 (Shop Problems)	2
Mech. Drawing a	2	Mech. Drawing b	2
Art 2	2	Art 2	2
Tech. of M. A. 1 (Survey of Trades)	2		

SECOND YEAR

Forging 1	5	Forging 2	5
Mech. Drawing 1	2	Mech Drawing 2	2
Art 26	2	Art 26	2
Tech. of M. A. (Materials)	3		

THIRD YEAR

Forging 3	5	Forging 4	5
Tech. of M. A. 3 (Automobiles)	2	Tech. of M. A. 3 (Automobiles)	2
Mech. Drawing 4	2		

Machine and Automobile Work

FIRST YEAR

First Term		*Second Term*	
Machine and Auto Work 1	5	Machine and Auto Work 2	5
Art 2	2	Art 2	2
Mech. Drawing a	2	Mech. Drawing b	2
Tech. of M.A.6 (Shop Problems)	2	Tech. of M.A.6 (Shop Problems)	2
Tech. of M. A. 3 (Automobiles)	2	Tech. of M. A. 3 (Automobiles)	2
Tech. of M. A. 1 (Survey of Trades)	2		

SECOND YEAR

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

THIRD YEAR

Machine Work 6	5	Machine Work 7	5
Mech. Drawing 6	2	Machine Work 10	3

Interior Decoration

FIRST YEAR

First Term		*Second Term*	
Art 1	2	Art 21	2
Dom. Art. 1	2	Dom. Art 2	2
Art 5A	3	Art 5A	3
Art 25	5	Art 25	5
Art 27H	2	Art 27H	2
Elective	3	Elective	3

SECOND YEAR

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

THIRD YEAR

Art 25	5	Art 25	5
Art 5B	3	Art 5B	3
Art 23	2	Art 23	2
Art 3 or elective	2	Art 4 or elective	2
Art 27C	2	Art 27C	2
Elective	3	Elective	3

TWO-YEAR COURSES

Show Card and Sign Writing

FIRST YEAR

First Term		*Second Term*	
Art 27G	5	Art 27G	5
Art 27K	3	Art 27K	3
Art 5A	4	Art 5A or B	4
English 6	3	English 6	3
Elective	2	Elective	2

SECOND YEAR

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

Art Metalry

FIRST YEAR

First Term		*Second Term*	
Art 27C	5	Art 27C	5
Art 27K	2	Art 27K	2
Art 1	2	Art 5	2
Wood Work	5	Wood Work	5
Elective	3	Elective	3

SECOND YEAR

Art 27C	5	Art 27C	5
Art 27D	3	Art 27D	3
Art 27K	2	Art 27K	2
Art 27 elective	4	Art 27 elective	4
Elective	3	Elective	3

China Painting

FIRST YEAR

First Term		*Second Term*	
Art 27B	5	Art 27B	5
Art 1	2	Art 21	2
Art 27K	2	Art 27K	2
Art 5A	3	Art 5A	3
Art 27	2	Art 27	2
Elective	3	Elective	3

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

First Term		*Second Term*	
Art 27H	5	Art 27H	5
Art 1	2	Art 5A	3
Art 5A	3	Art 21	2
Dom. Art 1	2	Dom. Art 2	2
Art 27F or elective	2	Art 27F or elective	2
Elective	3	Elective	3

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

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.

The instruction begins Tuesday, November 14, and closes Saturday, March 24.

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

AGRICULTURE

Crops and Soils	5	Stock Judging	5
Fruit Growing	5	Insect Pests	5
Poultry Keeping	5	Veterinary Science	5
Shop Work	5	Farm Accounting	5
		Shop	5

(Not more than four may be taken..)

MECHANICAL ARTS AND AGRICULTURAL ENGINEERING

Farm Buildings and Machinery	5
Carpentry	5
Forging	5
Machine Work	5
Machine and Auto Work	5
Tech. of Mechanic Arts	3
Mechanical Drawing	2

COMMERCE

English x	5
Business Correspondence and Spelling, Commercial Arithmetic	5
Penmanship	1
Accounting a	3
Political Science	3

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 thoro

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 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

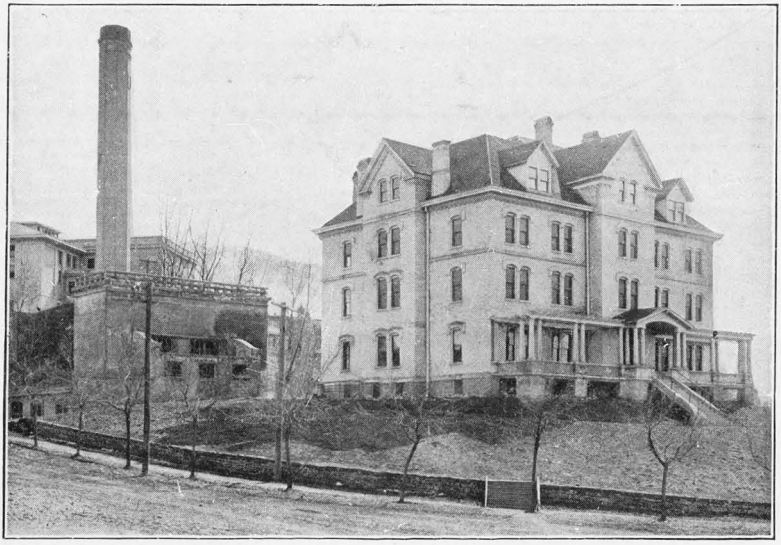
The School of Education of the University of Utah shall give all the courses necessary to prepare teachers and supervisors in the elementary schools in all subjects taught in these schools; but the University shall not offer the technical work in agriculture and domestic science and domestic art, needed 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.

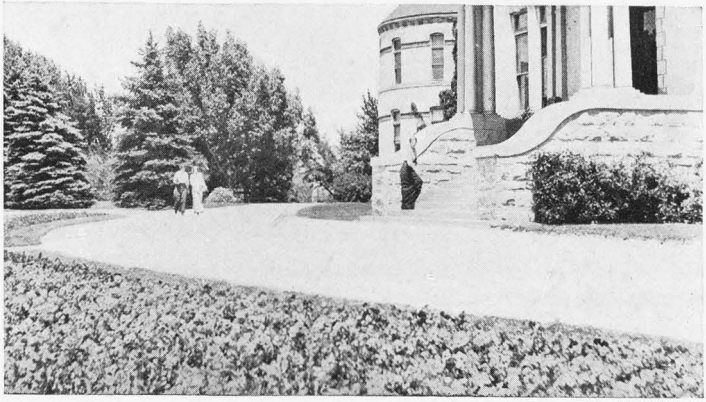
It is understood that in these subjects courses suitable for third and fourth year high school students are also suitable for freshmen and sophomores in the college who have not had these courses. Such courses may be taught in the School of Education of the University, and students of college grade may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

EXPERIMENT STATION



WOMEN'S BUILDING



PART OF COLLEGE CAMPUS

MECHANIC ARTS BUILDING

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. Elocution and Public Speaking
13. English
14. Farm Management Extension
15. Finance and Banking
16. Food and Dietetics
17. Geology and Roads
18. History
19. Home Construction and Sanitation
20. Home Management Extension
21. Horticulture
22. Junior Vocational Extension
23. Library Work
24. Mathematics
25. Mechanic Arts
    a. Forging and Carriage Building
    b. Machine and Automobile Work
    c. Woodwork and House-building
26. Methods in Experimentation and Extension
27. Modern Language and Latin
28. Music
29. Physical Education
    a. For Men
    b. For Women
30. Physics and Farm Machinery
31. Political Science
32. Veterinary Science
33. Zoology and Entomology

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 services, 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 principles of double entry and in preparation of financial statements. Two hours daily thruout the year. Six credits. Fee $1.
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. Lecture and laboratory periods. Ten credits. Fee $2.

Lab. 11:00 to 1:30 Tu. Th. Sat. and 11:50 to 1:30 Wed. Fri.; lec. to be arranged.

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 thruout the year. Ten credits. Fee $2.

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. Fee $1.

11:00 to 1:30 Tu. Th. Sat. and 11:50 to 1:30 Wed. Fri.

e. COMMERCIAL CORRESPONDENCE AND ARITHMETIC. Four sections arranged to accommodate Regular and Winter Course students.

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

e-2 and 3. Commercial Arithmetic. First and fourth quarters: arithmetic necessary in business. Short methods.

e-4. Business Correspondence. Third quarter: business letter writing, correct form, proper English, punctuation, etc. Full course daily thruout 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. One lecture and two practice periods a week thruout the year. Four credits. Fee $1.

Lab. Wed. Fri. 11:50 to 1:30; lec. to be arranged.

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 thruout 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 thruout the year. Six credits.

Not given in 1916-17.

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 thruout the year. Six credits.

Tu. Th. Sat. 9:20

4. COST ACCOUNTING. Cost accounting, factory organization, and systematizing. Two lectures and one laboratory period, second term. Three credits.

Tu. Th. 11; lab. Wed. Fri. 11:50 to 1:30

5. CORPORATION AND PARTNERSHIP ACCOUNTS. Training in the handling of problems in partnership and corporation accounting. Three hours, first term. Three credits.

Tu. Th. Sat. 11

6. AUDITING. Auditing and investigations. In addition to theoretical study students audit the accounts of the school offices. Three hours thruout the year. Six credits.

Not given in 1916-17.

7. HOUSEHOLD ACCOUNTS. The practical application of accounting principles to 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. 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. Fri. 11:50 to 1:30

See page 129 for stenography and typewriting.

AGRICULTURAL ENGINEERING

IRRIGATION AND DRAINAGE

PROFESSOR R. B. WEST
ASSISTANT PROFESSOR ISRAELSON
ASSISTANT PROFESSOR 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 pratical 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 relation between moisture and crops; plant periods especially influenced by moisture,—effect on the yield and composition. Prerequisites, Botany 1 and Agronomy 9. Three lectures, second term. Three credits. Laboratory fee $1. *(See Agronomy 10.)*

Lec. Tu. Th. Sat. 8:30

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. Laboratory fee $1.

Wed. and Fri. 10:10; Tu. lab. 1:30 to 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 irribation 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. 10:10

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, spillways, etc. Prerequisites, Irrigation and Drainage

7, Rural Architecture 3 and 4. Three hours thruout the year. Six credits. Laboratory fee $2.

First term, lec. Tu. Th. Sat. 10:10; second term, lec. Fri. 12:40; lab. Tu. Sat. 1:30

See Farm Mechanics, page 92 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, thruout the year. Six credits. Laboratory fee $3.

Lec. Wed. 12:40; lab. Wed. Fri. 1:30 to 4

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. Laboratory fee $2.

Lab. Tu. Sat. 1:30 to 4

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.

4. MECHANICS OF FRAMED STRUCTURES. The strength and design of joints in timber framing. Holding power of nails, screws, drift bolts, etc. Design of beams, columns, and simple trusses in wood. Prerequisite, Trigonometry. Three credits. Second term.

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. Laboratory fee $1. Hours to be arranged.

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.

Tu. Th. Sat. 11:00

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 thruout the year.

Tu. Th. Sat. 12:40

See Technology of Mechanic Arts 5.

RURAL SANITATION

PROFESSOR TITUS
PROFESSOR GREAVES
PROFESSOR R. B. WEST
MR. HAGAN
MR. SORENSON
MR. CARTER

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 and one laboratory period, first term. Four credits. Laboratory fee $1.

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

3. SANITATION. (Bacteriology 8.) 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.

Tu. Th. Sat. 11:00

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. Laboratory fee $1.

5. DAIRY BACTERIOLOGY. (Bacteriology 5.) The 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. Laboratory fee $1.

Wed. Fri. 1:30 to 4:00

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.

Not given in 1916-17.

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 C. W. 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. Two hours, first term. Two credits.

Wed. Fri. 8:30

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. Second term. Two credits.

Wed. Fri. 8:30

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. BRACKEN
MR. PITTMAN

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. Laboratory fee $1.

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

Winter course meets five hours a week.

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

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. Laboratory fee $1.

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

*On leave.

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.

Not given in 1916-17.

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.

Not given in 1916-17.

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, thruout the year. Six credits. Laboratory fee $2.

Lec. Wed. Fri. 9:20; lab. Fri. 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. Two hours, first term. Two credits. Laboratory fee $1

Alternates with Agronomy 7. Not given in 1916-17.

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. Two hours, first term. Two credits. Laboratory fee $1.

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

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 growing 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. Three hours, second term. See Irrigation and Drainage 2. Laboratory fee $1.

Lec. Tu. Th. Sat. 8:30

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. Laboratory fee $1.

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 thruout 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.

ANIMAL HUSBANDRY

PROFESSOR J. T. CAINE III
PROFESSOR CARROLL
ASSISTANT PROFESSOR ALDER
ASSISTANT PROFESSOR G. B. CAINE
MR. EGBERT

a. GENERAL. A brief survey of the field of Animal Husbandry, including breeds and management of horses, cattle, sheep, and swine. Occasional judging of different classes of livestock.

Three classes and one laboratory period, winter course. Four credits.

Lec. Tu. Th. Sat. 12:40; lab. Th. 1:30 to 4:00

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.

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

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 Physiology, 2 Three lectures thruout the year. Six credits.

Tu. Th. Sat. 8:30

Not given in 1917-18.

3-a. PRACTICAL FEEDING. How the animal uses its feed; classes of feeds; compounding rations for different purposes and for different classes of animals. Three credits.

Not given in 1916-17.

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, feeding for market, fitting for show, and general care and management. Two class periods, first term. Two credits.

Wed. Fri. 8:30

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

Not given in 1916-17.

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

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 83, for related work.

POULTRY HUSBANDRY

ASSISTANT PROFESSOR ALDER
MR. EGBERT

a. ELEMENTARY POULTRY. Practical information on the various phases of poultry management for short practical-course students. Lectures, recitations and laboratory work. Four hours, first term, or winter course. Four credits.

1. GENERAL POULTRY. Breeds, judging, breeding, incubation, brooding, housing, feeding and marketing. Two recitations and one laboratory period, first term. Three credits. Laboratory fee $1.

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

1-a. Same as course 1, except no laboratory work is given. Two lectures, first term. Two credits.

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.

5. ANATOMY, PHYSIOLOGY, AND DISEASES OF POULTRY. The

causes of disease and methods of identification and prevention. Prerequisite, Poultry 1. Two recitations, one term. Two credits.

ART

CALVIN FLETCHER, PROFESSOR OF APPLIED ART
J. S. POWELL, PROFESSOR OF FINE ART

FINE ART

There is a twenty-five-cent fee per laboratory credit hour for each course.

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 thruout the year. Four credits.
Tu. Th. Sat. 8:30 to 10:10

3. Drawing and sketching of house plans and interior details. Prerequisite to Home Construction and Sanitation. Four credits.
Wed. Fri. 11:50 to 1:30
For History of Art see department of History.

4. Freehand drawing. The study of plants, animals and insects, for students in agriculture. Two credits.
Sat. 1:30 to 4:00
For aesthetics see department of English.

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, animal, 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. 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

6. Advertising. The principles of advertising arrangement; thruout the year. Two credits.
Th. Sat. 1:30 to 4:00

APPLIED ART

There is a fee of twenty-five cents a laboratory credit hour except in 27B, C, and D, where it is 50 cents.

21. Continuation of Art 1. Design with special attention to pattern and art needlework. Two laboratory periods, second term. Two credits. Prerequisite to D. A. courses 1, 3, and c.
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. Two lectures and two laboratory periods thruout the year. Six credits.

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

Note.—For history and development of the house, its furniture and furnishings, see department of History. For Costume history and design, see department of Domestic Art.

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 a week thruout the year. Four credits.

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

27. STUDIO. *Hours and credit 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. Work will be correlated with Rural Arch. 2 and 8.

27K. Specialized design for craft or commercial purposes.
Daily, 8:30 to 10:10 and 1:30 to 4:00

Note—One or more examples of each student's work may be retained by the department, but in such cases materials furnished by the student are paid for. For special trade courses in Art see page 49.

BACTERIOLOGY

PROFESSOR GREAVES
MR. CARTER

a. This is an elementary course dealing with bacteria in relation to agriculture, questions of sanitation being considered. Three lectures, first term. Three credits.

Will be given in 1916, if registration justifies, and repeated for short course students if requested.
T. 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. Laboratory fee $2; deposit $2.

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 perserving; action of disinfectants. Three lectures and two laboratory periods, first term. Five credits. Laboratory fee $2; deposit $2.

Tu. Th. Sat. 8:30; lab. Tu. and Th. 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. Laboratory fee $1; deposit $1.

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

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, lectures and reports. Six hours, second term. Three credits. Laboratory fee $1; deposit $1.

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, lectures

and reports, first term. Three credits. Laboratory fee $1; deposit $1.

Wed. Fri. 1:30 to 4:00

6. SANITARY ANALYSIS. Methods of making chemical and bacterial analysis of water, milk, etc., for sanitary purposes. Prerequisites, Chemistry 6 and Bacteriology 1. One lecture and two laboratory periods, one term. Three credits. Laboratory fee $1; deposit $1.

7. RESEARCH. The laboratory and library facilities are especially arranged for advanced students in bacteriological investigation in agriculture, household science, the industries, sanitary science, and veterinary science. Time and credit to be arranged.

8. SANITATION. (Sanitation 3.) 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.

Tu. Th. Sat. 11:00

See Physiology and Physiological Chemistry, page 126, for related work.

BOTANY

PROFESSOR HILL
ASSISTANT PROFESSOR RICHARDS
MR. WILSON

1. GENERAL BOTANY. The nature and function of plant structure; types of plants. Two lectures and two laboratory periods thruout the year. Eight credits. Laboratory fee $2; breakage deposit $2.

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. Th. Sat. 11:00 to 1:30

2. FLOWERING PLANTS. Our common plants and their re-

lationships; special emphasis upon economic plants. One lecture and two laboratory periods, second term. Three credits. Deposit $2.

Lec. Mon. 9:30; lab. Mon. 10:30 to 3:00

3. ANATOMY, HISTOLOGY AND HISTOLOGICAL TECHNIQUE. One lecture and two laboratory periods, first term. Three credits. Laboratory fee $1; deposit $2.

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

4. PLANT PHYSIOLOGY. Two lectures and two laboratory periods thruout the year. Eight credits. (Chemistry 2 should accompany this course.) Laboratory fee $2; deposit $2.

Lec. Wed. Fri. 9:20
Sec. 1. Lab. Tu. Sat. 1:30 to 4; sec. 2. Lab. Th. Sat. 11 to 1:30

5a. PRACTICAL PLANT PATHOLOGY. One lecture and two laboratory periods, first term. Three credits. Laboratory fee $1; deposit $2.

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

5b. TECHNICAL PLANT PATHOLOGY. One lecture and two laboratory periods, second term. Three credits. Prerequisite Botany 5a. Laboratory fee $1.

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

6. ECONOMIC BOTANY.

Not given in 1916-17.

7. ECOLOGY. The distribution and adaptation of plants in relation to temperature, moisture, light, soil, alkali and other environmental factors. Two lectures, first term. Two credits.

Lec. Wed. Fri. 8:30

8. CROP ECOLOGY. The relation of environment to crop production. Two credits.

Not given in 1916-17.

9. FORESTRY. Two lectures thruout the year. Four credits.

Not given in 1916-17.

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

Th. 1:30

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

CHEMISTRY

PROFESSOR C. W. PORTER
PROFESSOR F. L. WEST
PROFESSOR GREAVES
ASSISTANT PROFESSOR HIRST
ASSISTANT PROFESSOR DAVIS

1. INORGANIC CHEMISTRY. The properties and preparation of the elements and their ordinary compounds. The quantitative laws of chemical combination and their applications. The effects of temperature and concentration in displacing chemical equilibria. This course is adapted to the requirements of students who have not had high school chemistry. Three lectures and six hours of laboratory work a week thruout the year. Ten credits. Fee $3; breakage deposit $3.

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

1a. INORGANIC CHEMISTRY. A brief course devoted to the general principles of inorganic chemistry. Prerequisite high school chemistry. Two lectures and one laboratory period a week thruout the year. Six credits. Fee $2; breakage deposit $2.

Lec. Wed. Fri. 11:00; laboratory any afternoon 1:30 to 4:00

2. ORGANIC CHEMISTRY. Fundamental principles: A study of the aliphatic and aromatic hydrocarbons and their derivatives; the chemistry of fats, carbohydrates and proteins. Three

lectures a week either semester. Three credits. Prerequisite Chemistry 1 or 1a. No fee.

Sec. 1. Tu. Th. Sat. 8:30 First semester
Sec. 2. Tu. Th. Sat. 10:10 First semester
Sec. 3. Tu. Th. Sat. 10:10 Second semester

3. ORGANIC CHEMISTRY. A laboratory course dealing with the fundamental principles of organic chemistry. This course is open to those students only who take or have taken Chemistry 2. Six hours a week either semester. Two credits. Fee $3; breakage deposit $3.

Sec. 1. Tu. Sat. 1:30 to 4:00; sec. 2. Wed. Fri. 1:30 to 4:00

4. QUALITATIVE ANALYSIS. The theory and practice of inorganic qualitative analysis. The student is required to become familiar with the reactions of the common ions and to apply the principles involved in chemical equilibria, ionization, hydrolysis, oxidation and reduction.

Text: Stieglitz "Qualitative Analysis."

One lecture and six hours of laboratory work a week thruout the year. Six credits. Prerequisites Chemistry 1 or 1a and Physics 1. Fee $3; deposit $3.

Lec. Wed. 11:50

6. QUANTITATIVE ANALYSIS. One lecture and six hours of laboratory work a week thruout the year. Six credits. Prerequisite, Chemistry 1 or 1a. No fee; breakage deposit $3.

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

7. PHYSIOLOGICAL CHEMISTRY. The chemical transformations occurring in plant and animal organisms. Three lectures a week, second semester. Three credits. Prerequisite, Chemistry 2. No fee.

Lec. Tu. Th. Sat. 8:30

8. INDUSTRIAL CHEMISTRY. Industrial applications of air, water, fertilizers, fuels, gases, petroleum, mortars, cements, explosives, oils and paints. Three lectures a week thruout the year. Six credits. Prerequisite, Chemistry 2. No fee.

Lec. Tu. Th. Sat. 9:20

9. RESEARCH. Time and credit to be arranged with the instructor.

10. SPECIAL COURSES IN QUANTITATIVE ANALYSIS. Time and credit to be arranged with the instructor. Fee $1 a laboratory credit-hour.

a. Water analysis,
b. Food analysis,
c. Soil analysis,
d. Urine analysis,
e. Gas analysis.

12. GENERAL ORGANIC REACTIONS. A consideration of the more important reactions employed in synthetic organic chemistry. Two lectures a week, first semseter. Two credits. Prerequisite, Chemistry 2. No fee.

Lec. Wed. Fri. 10:10

14. THE NITROGEN COMPOUNDS. Devoted primarily to the amino acids, proteins, alkaloids, and purine derivatives. Two lectures a week, second semester. Two credits. Prerequisite, Chemistry 2. No fee.

Lec. Wed. Fri. 10:10

15. ORGANIC PREPARATIONS. An advanced laboratory course in the practical methods of synthetic organic chemistry. Six hours a week, either semester. Two credits. Fee $3.

16. PHYSICAL CHEMISTRY. The Kinetic theory, solutions, thermo-chemistry and electro-chemistry. Three lectures a week, first semester. Three credits. Prerequisites, Chemistry 1 or 1a and Physics 1.

Lec. Tu. Th. Sat. 10:10

17. HISTORY OF CHEMISTRY. Two lectures a week thruout the year. Four credits.

Lec. Wed. Fri. 12:40

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. Fee $1.

Lec. Wed. Fri. 8:30; lab. Mon. 9:00 to 12:00

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. Two lectures thruout 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 thruout 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 thruout the year. Two credits.

See Animal Husbandry, page 69, for related work.

DOMESTIC ART

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 1 and 21. 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 thruout 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, Domestic Art 1, Art 1 and 21. Parallel, Art 27k. 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. Same prerequisites as in 1.

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, Art 1 and 21. Lectures and laboratory work. 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 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. Prerequisite, Domestic Art 3. Lectures and laboratory work. Four hours thruout the year. Four credits.

Tu. Th. 2:20 to 4:00

6. MILLINERY. Demonstrative discussions and practical work; 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 1 and 21. Four credits.

Wed. Fri. 1:30 to 4:00

7. TEXTILES. The history of the textile industry, including a discussion of the principles of spinning, weaving, printing, dyeing and bleaching; a study of economic factors including home industries and the rise of the factory system; the properties of each textile fiber used for clothing in relation to cost, wearing quality and appearance; adaptation to different types of clothing. Prerequisite, Economics 2. Three lectures a week, first semester. Three credits.

Tu. Th. Sat. 11:50

8. TEXTILES. Microscopic and chemical methods for the identification and estimation of the textile fibers, including complete quantitative determinations of cotton, wool, silk and linen in mixed goods; the detection of mineral matter and other foreign substances in fabrics. Prerequisites, Domestic Art 7 and Chemistry 2. One lecture and six hours of laboratory work a week, second semester. Students who major in Domestic Art are required to take this course. Three credits.

Lec. Th. 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.

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. Fee, $10. No credit.

11. COSTUME HISTORY AND DESIGN. Modeling of historic costume in cheap textiles, and designing of present-day fashions. Two laboratory periods thruout the year. Four credits.

Tu. Th. Sat. 11:50 to 1:30

ECONOMICS

PROFESSOR THOMAS
PROFESSOR HENDRICKS
ASSISTANT PROFESSOR 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 thruout the year. Six credits.

Tu. Th. Sat. 9:20

2. GENERAL ECONOMICS. Practically the same subjects as Economics 1, treated more thoroly. Three hours thruout 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 thruout the year. Six credits.

4. MARKETING OF FARM PRODUCTS. The best methods of selling farm products, considered first from the view-point of the consumer, and secondly from that of the producer. This includes a discussion of municipal markets, the cost of marketing, the prices of farm products, and various forms of farmers' co-operative selling organizations. Three hours thruout the year. Six 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 literature and make-up of advertising; the advertisements of newspapers and magazines; the psychology of advertising, and practical experience in the writing of ads. Two recitations a week, second term. Two credits. Three credits if practical work in Art Department be taken in addition.

Wed. Fri. 9:20

12. AGRICULTURAL ECONOMICS. Rural credits. 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 129, for related work.

ELOCUTION AND PUBLIC SPEAKING

ASSISTANT PROFESSOR HUNTSMAN

1. ELOCUTION. Vocal expression. A study of the principles of expressive reading and the vocal interpretation of literature with supplementary work in voice development and bodily expression. Six credits.

Tu. Th. Sat. 12:40 to 1:30

2. ELOCUTION. Vocal interpretation. The aim of this course will be to develop emotional power, literary appreciation and the ability to interpret the printed page. A wide range of literary masterpieces, including the lyric, the ballad, the short story, and the classic drama will be assigned for individual study. Four credits.

Wed. Fri. 12:40 to 1:30

3. ELOCUTION. Dramatic interpretation. A laboratory course in the modern drama. The plays of Ibsen, Strindberg, Sudermann, Hauptmann, Maeterlinck, D'Annunzio, Echegaray, Rostand, Brieux, Shaw, Galsworthy, Masefield, Jones, Pinero, Yeats, Synge, and other contemporary dramatists will be studied from the interpretive side. Members of the class will vocally interpret characters and scenes assigned for individual study and several plays will be presented to the public as part of the class work. Six credits.

Tu. Th. Sat. 10:10

4. PUBLIC SPEAKING. A study of the principles of effective public speaking, with practice in extemporaneous speaking on subjects of current interest, and in the preparation and delivery of short speeches adapted to various audiences. Supplementary work in voice development and the correction of defects in speech. Occasional practice assignments from the masterpieces of oratory. Three hours.

Tu. Th. Sat. 11:50

ENGLISH

PROFESSOR PEDERSEN
ASSISTANT PROFESSOR OGBURN
ASSISTANT PROFESSOR KYLE*
ASSISTANT PROFESSOR ROBINSON

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

b. COMPOSITION AND CLASSICS. First and second year high school English for practical students. Five hours thruout the year. Ten credits.

Daily, 9:20

c. Third year high school English. Study of classics; oral and written composition. Three hours thruout 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 thruout 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 lectures. (10:10 Wed. Fri.)

Prerequisite, English 6. Two hours thruout the year. Four credits.

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

*On leave.

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

Not given in 1916-17.

10. SHAKSPERE. A detailed study of six plays: Macbeth, Henry the Fourth, King Lear, Richard the Second, and The Tempest. Collateral reading, Sidney Lee: "Shakspere's Life and Works." Three hours thruout the year. Six credits.

Not given in 1916-17.

11. THE MODERN DRAMA. The stage of today,—recent and living dramatists: plays by Ibsen, Strindberg, Hauptmann, Tchekhof, Shaw, Galsworthy, Synge, and others. Two hours thruout the year. Four credits.

Wed. Fri. 9:20

12. AMERICAN LITERATURE. History and development of American letters from colonial times to the present day.

Wed. Fri. 8:30

13. THE ENGLISH NOVEL. Its origin, development, and most important types. Two hours thruout the year. Four credits.

Not given in 1916-17.

14. NINETEENTH CENTURY PROSE. First semester, the novel; second semester, the essay. Three hours thruout the year. Six credits.

Tu. Th. Sat. 11:50

19. BRITISH NINETEENTH CENTURY POETS. Literary criticism. Three hours thruout the year. Six credits.

Not given in 1916-17.

20. DEBATING. Two hours thruout the year. Four credits.

Wed. Fri. 12:40

21. AESTHETICS. The principles of beauty as fundamental to all the arts. Three lectures, second term. Three credits. (Professors Fletcher and Powell.)

Tu. Th. Sat. 10:10

25. JOURNALISM. Magazine and newspaper writing; college journalism. Two hours thruout the year. Four credits. Prerequisite, English 7.

Not given in 1916-17.

See modern languages for related work, page 117.

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 thruout the year. Six credits. Laboratory fee $1.

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

3. ADVANCED 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. Laboratory fee $1.

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 thruout the year. Six credits.

Wed. Fri. 9:20, and one afternoon to be arranged.

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 132, for related work.

FARM MECHANICS

PROFESSOR F. L. WEST

ASSISTANT PROFESSOR HUMPHERYS

a. FARM ENGINES. Gas engines of all types used on the farm, including the stationary engine, the tractor and the automobile. Three recitations and two laboratory periods. Winter course. Laboratory fee $1.

b. FARM BUILDINGS AND MACHINERY. The elementary principles of agricultural surveying, drainage, irrigation, roads, farm machinery, farm motors, farm structures, farm sanitation, and rope and belt work. Three recitations and one laboratory period. Winter course. Laboratory fee $1.

1. FARM MACHINERY. Tillage, cultivating, harvesting, pumping and general labor saving machinery. Two recitations and one laboratory period, first term. Three credits. Laboratory fee $1.

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

2. FARM MOTORS. The design, operation, adjustment and care of gasoline engines used on the farm, including the stationary engine, the tractor, the automobile, and motor truck. Two lectures and one laboratory period, second term. Three credits. Laboratory fee $1.

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

3. FARM POWER. The application of power to the various phases of farm work. Laboratory work: the installation, cost of operation and efficiency of steam, gasoline and electric motors. One lecture and one laboratory period, second term. Two credits. Laboratory fee $1.

Sat. 8:30; lab. Tu. 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. Laboratory fee $1.

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

5. ADVANCED FARM MOTORS. A thoro analysis of ignition devices for stationary engines, tractors and automobiles. Considerable practice will be offered for operation and repair of different types of engines. Two recitations and one laboratory period, second term. Three credits. Laboratory fee $1.

Wed. Fri. 8:30; lab. Sat. 1:30

See Agricultural Engineering, page 61, and Physics, page 125, for related work.

FINANCE AND BANKING

PROFESSOR HENDRICKS
PROFESSOR THOMAS
ASSISTANT PROFESSOR 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.

Tu. Th. Sat. 12:40

2. BANKING. History and theory of banking in the United States and foreign countries; foreign exchanges. Three hours, second term. Three credits.

Tu. Th. Sat. 12:40

3. PUBLIC FINANCE. The principles of public expenditures, revenues, and administration. Three hours, first term. Three credits.

Not given in 1916-17.

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.

Not given in 1916-17.

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 thruout 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

8. INDUSTRIAL EFFICIENCY. A study in modern business management, as an introduction to the work in efficiency engineering. Two hours, first term. Two credits.

Wed. and Fri. 11:50

FOODS AND DIETETICS

ASSISTANT PROFESSOR SAUNDERS
PROFESSOR WILKINSON

a. ELEMENTARY COOKING. Two laboratory periods thruout the year. Four credits. Laboratory fee $2.

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 thruout the year. Six credits. Laboratory fee $2.

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

1a. A study of the composition of foods and the fundamental principles of nutrition. A course designed primarily for students who have had at least two years of high school work in foods. Two lectures a week thruout the year. Four credits.

Wed. Fri. 10:10

2. FOOD ECONOMICS. The function and nutritive values of foods, cost of food in relation to the 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 thruout the year. Six credits. Prerequisites, Foods 1 or 1a, and Chemistry 1. Parallel with Chemistry 2. Laboratory fee $3.

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 with physiological chemistry. Two lectures and one laboratory period thruout the year. Six credits. Laboratory fee $3.

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 planning 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 adolescence. 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 elementary cooking. Two hours. One lecture and one laboratory period, first term. Two credits. Laboratory fee $1.

Wed. Fri. 9:20 to 11:00

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

Sat. 12:40

GEOLOGY

PROFESSOR WILLIAM PETERSON

2. GENERAL GEOLOGY. Dynamic, structional, and historical, geology. The changes the earth's surface is now undergoing and the forces which produce them, as a means of interpreting the past. Laboratory study of the common rocks and rock-forming minerals, with special stress on the soil product resulting from rock disintegration. A careful study of the geological development of the North American continent. Field trips to points

during fall and spring with written reports. Prerequisites, Chemistry 1, Zoology 2. Three hours thruout the year. Six credits.

Sec. 1. Tu. Th. Sat. 8:30; sec. 2. Tu. Th. Sat. 9:20

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 thruout 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. Laboratory fee $2.

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 detailed 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, first term. Two or three credits.

Wed. Fri. 10:10

10. GEOLOGY. Relief modeling, methods by which any topographic map may be converted into a true relief model, including either the geology or detailed geography as the student may select. Two or three credits, either term. Laboratory fee $2.

See Roads, page 128, for related work.

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 thruout the year. Six credits.

Tu. Th. Sat. 12:40

6. ANCIENT HISTORY. Nations that have contributed to western civilization. Three hours thruout the year. Six credits.

7. HISTORY OF CIVILIZATION. Factors in ancient, medieval, and modern times of permanent value in our own day. Two hours thruout 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 thruout the year. Four credits.
Not given in 1916-17.

9. HISTORY OF SCIENCE. The growth of the scientific spirit and the development of scientific methods and content. Two hours thruout the year. Four credits.
Wed. Fri. 10:10

10. History of Art. Lantern-slide lectures on the evolution and development of painting, sculpture, and architecture. Three lectures, first term. Three credits. (Professor Powell.)
Tu. Th. Sat. 10:10

11. History and development of the house, its furniture and furnishings. Two lectures thruout the year. Four credits. (Professor Fletcher.)
Wed. Fri. 12:40

HOME CONSTRUCTION AND SANITATION

PROFESSOR WILKINSON
ASSISTANT PROFESSOR SAUNDERS

1. SANITATION. Scientific principles and practices conducive to the maintenance of healthful conditions and their expression in house and environment. Prerequisite or parallel, Bacteriology 2. Two hours, first term. Two credits.
Wed. Fri. 10:10

2. HOME CARE OF THE SICK. Simple sickroom procedure and food for the sick. Prerequisites, Bacteriology 2 and 6, Foods 1, or Elementary Cooking.

This course correlates with the local hospital. Lectures and field work given by hospital corps. Two laboratory periods, second term. Three credits. Laboratory fee $1.

Wed. Fri. 1:30 to 4:00

3. HOUSE CONSTRUCTION. The building and furnishing of a modern home beginning with a fundamental study of the evolution of the house. Prerequisite, Art 3. Two hours, second term. Two credits.

Wed. Fri. 10:10

4. HOUSEHOLD ADMINISTRATION. The meaning of home making and home activities, their relation to the industrial world and to society at large. Standards of living, income and expenditures; savings, service and management. Prerequisite, Economics 2. Three hours thruout the year. Six credits.

Tu. Th. Sat. 9:20

5. HOME LAUNDERING. This course includes a study of equipment for the home laundry; laundering processes; methods of cleaning silks, woolens, linen and cotton; special precautions in handling colored and fine materials, and laces; the removal of stains. Prerequisites, Chemistry 2, Bacteriology 1. Two laboratory periods, first term. Two credits.

Wed. Fri. 1:30 to 4:00

6. SURVEY. A study of the practical problems in the supervision and management of home economics departments in educational institutions. Two lectures thruout the year. Four credits.

Wed. Fri. 9:20

HORTICULTURE

PROFESSOR TAYLOR
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. PRUNING AND PROPAGATION. A continuation of Horticulture 1, dealing with pruning and propagation. Prerequisite, Horticulture 1. Students furnish their own pruning tools, costing about $3. One lecture and two laboratory periods, second term. Three credits.
Lec. Tu. 8:30; lab. Mon. 8:30 to 3:30

3a. PRACTICAL POMOLOGY. Propagation, picking and packing fruit; elementary work in greenhouse management. Two lectures and one laboratory period, first term. Three credits. Laboratory fee $1.
Lec. Wed. Fri. 10:10; lab. Tu. 1:30 to 4:00

3b. BUSH FRUITS. The propagation, culture, harvesting and marketing of small fruits; such as strawberries, currants, raspberries, grapes. Prerequisite, Horticulture 3a. Two lectures, second term. Two credits.
Lec. Wed. Fri. 10:10

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. Laboratory fee $1.
Lec. Wed. Fri. 9:20; lab. Fri. 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. Laboratory fee $1.

Lec. Wed. 9:20; lab. Fri. 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 and one laboratory period, second term. Three credits. Laboratory fee $1.

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

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

Tu. Th. Sat. 10:10

10. HISTORY OF HORTICULTURE AND AGRICULTURE. In mythical Egypt, in Greece, Rome, England, and the United States. Three lecture periods, second term. Three credits.

Tu. Th. Sat. 8:30

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." One hour thruout the year. Two credits.

Wed. 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. One hour thruout the year. Two credits.

Fri. 10:10

MATHEMATICS

PROFESSOR SAXER
ASSISTANT PROFESSOR HUMPHERYS

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

b. PLANE GEOMETRY. Three hours thruout 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

4. SOLID GEOMETRY. Three hours, second term. Three credits.
Not given in 1916-17.

5. COLLEGE ALGEBRA. Three hours thruout the year. Six credits.
Tu. Th. Sat. 9:20

6. PLANE TRIGONOMETRY. Three hours, second term. Three credits. Prerequisite or parallel, Mathematics 5.
Tu. Th. Sat. 12:40

7. ANALYTIC GEOMETRY AND CALCULUS. Five hours thruout the year. Ten credits. Prerequisites, Mathematics 5 and 6.
Daily, 8:30

8. DIFFERENTIAL EQUATIONS. Two hours thruout the year. Four credits. Prerequisite, Mathematics 7.
Wed. Fri. 12:40

10. GENERAL ASTRONOMY. Two hours thruout the year. Four credits. Prerequisite, Physics 1.

Wed. Fri. 10:10

MECHANIC ARTS*

ASSISTANT PROFESSOR HANSEN
ASSISTANT PROFESSOR PULLEY
ASSISTANT PROFESSOR NEWEY
PROFESSOR R. B. WEST
MR. SWENSON

TECHNOLOGY OF MECHANIC ARTS

1. A SURVEY OF THE TRADES. 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, chains, gears, levers, and links; the means of getting the rectilinear motion of the piston to rotary motion of drive wheels of the automobile. Mechanical drawing, Prerequisite. Second term. Two credits.

Wed. Fri. 12:40

3. AUTOMOBILES. Their construction, operation, maintenance and repair; types; engine details; carburetors; starting and lighting accessories; methods of locating troubles; practical road work. Laboratory work as required. Two hours thruout the year. Four credits.

Wed. Fri. 10:10

Winter course. Three credits.

Tu. Th. Sat at 11:00

**For related work see Art department; a deposit of $3 a year is required on all shop courses.*

4. WOOD FINISHING. Kinds: paints, pigments, and oils, and their manufacture. Stains,—water, oil and spirit; wax finish. Varnish,—kinds and their preparation. Polish,—rubbing and hand polish; materials used and the application. Second term. Three credits.

Tu. Th. Sat. 11:00

5. HOUSE BUILDING AND CONTRACTING. Methods of construction: the frame, two-brick, three-brick, stucco, shingle, cement block, and stuccoed hollow tile; comparative cost and economy of each; interior finishing. Three hours, thruout the year. Six credits.

Tu. Th. Sat. 12:40

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 thruout 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. 11:50

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.

a. ELEMENTARY FORGING. Examples of the work: staples, repair links, bolts, grab hooks, clevises, stay chains, blacksmith's tongs, and cold chisels. Three periods daily, first term. Five credits. Laboratory fee $2.50.

b. SPECIAL FORGE SHOP OPERATIONS. The use and care of blacksmith tools. Hammers, special forgings, wrenches, ferrules, are made to illustrate forging with anvil tools, filing, finishing, casehardening, tempering, and drilling. Prerequisite, course a. Three periods daily, second term. Five credits. Laboratory fee $2.50.

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. Laboratory fee $2.50.

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. Laboratory fee $2.50.

3. REPAIR PROBLEMS. Common problems of the repair shop: axle and tire setting, resetting of springs, plow work, steel dressing, and horseshoeing. Prerequisites, Courses 1 and 2. Three periods daily, first term. Five credits. Laboratory fee $2.50.

4. REPAIR WORK. Actual shop conditions. The College farm implements and vehicles give ample work for practice. Prerequisite, Course 3. Three periods daily, second term. Five credits. Laboratory fee $2.50.

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. Laboratory fee $2.50.

c. SHORT COURSE. Selected work from Course a, for stu-

dents 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. Laboratory fee $1.

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.

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. Four laboratory periods, and one recitation. Five credits. Laboratory fee $2.50.

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

2. BENCH, PLANER AND SHAPER. Soldering, babbitting bearings, valve grinding, hard turning, planing and shaping; elementary work on the engine lathe; problems. Prerequisite, course 1, second term. Four laboratory periods and one recitation. Five credits. Laboratory fee $2.50.

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 laboratory periods and one recitation. Five credits. Laboratory fee $2.50.

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

4. LATHE AND ADVANCED MILLING. Shaft couplings, engine crank shafts, gear cutting, gang milling, etc. Prerequsite, course 3, second term. Four laboratory periods and one recitation. Five credits. Laboratory fee $2.50.

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

5. AUTOMOBILE REPAIR. Methods of repairing and making adjustments; making repair parts; road testing, tire vulcanizing. Prerequisite, course 3, second term. Four laboratory periods and one recitation. Five credits. Laboratory fee $2.50.

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 laboratory periods and one recitation. Five credits. Laboratory fee $2.50.

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

7. TOOL MAKING. Taps, dies, mandrels, twist drills, milling cutters, etc. Prerequisite, course 4, and a knowledge of hardening and tempering steel, second term. Four laboratory periods and one recitation. Five credits. Laboratory fee $2.50.

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

8. MACHINE CONSTRUCTION. Model-size steam and gasoline engines are made. Prerequisites, course 4, and a working knowledge of tool steel, first term. Four laboratory periods and one recitation. Five credits. Laboratory fee $2.50.

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

9. MACHINE CONSTRUCTION. (Continued.) Second term. Laboratory fee $2.50.

10. ELEMENTARY MACHINE DESIGN. Kinds of fastenings: rivets and rived joints, keys and cotters, couplings, gears, etc. Prerequisites, a knowledge of mechanical drawing and of the strength of materials of machines, second term. Three credits.

Tu. Th. Sat. 10:10

11. MACHINE DESIGN. (Continued.) Prerequisite, course 10. Time and credit 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. Laboratory fee $1.

Wed. Fri. 1:30 to 4:00

d. ADVANCED SHORT COURSE. Work selected from courses 3, 4, etc. Time, credit, etc., to be arranged with instructor. Laboratory fee $1.

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 b. 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 2. 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. Course 2 prerequisite. Two credits.

Wed. Fri. 8:30 to 11:00

6. MACHINE DRAWING. Drawing of machinery with dimensions, notes, and conventions. Prerequisite, course 2. 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. ADVANCED DESCRIPTIVE GEOMETRY. 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, jointing, and the proper handling of tools. Three periods daily, first term. Five credits.

b. FUNDAMENTALS. (Continued.) Panels, sashes, doors shelves, and thoro practice in tool sharpening. Prerequisite, course a. Three periods daily, one term. Five 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. Five 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. Five 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. Five 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. Five 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, or 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 credit 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. The course, furthermore, is designed to act as a fitting school for practically trained agriculturists or home workers who plan to enter Extension work but whose knowledge is not organized according to college standards. The course will act as a cementing force among Extension workers themselves in that it will effect 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 them.

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 thruout 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 methods of instruction in Home Economics extension. Two lectures a week thruout the year. Four credits.

Wed. Fri. 11:50

Schedule:

History of extension	1	periods
Forms of extension	1	"
Institutes and schools	8	"
Home demonstration	16	"
Girls' club work	8	"
Women's organizations	2	"
Correspondence courses	2	"
Fairs and exhibits	2	"
The home laundry	2	"
Buttermaking	4	"
Floriculture	4	"
Poultry raising	4	"
Public speaking	6	"

Laboratory:

Three months of field work as follows:
One month during junior year in Girls' club work
One month during senior year in Short course work
One month during senior year in Home demonstration work
The last may be taken during the summer months

2. Methods in Experimentation

a. Methods and principles of research as applied to agriculture. One rec., second term. One credit.

b. Experimental work in home problems in bacteriology, infant feeding, household chemistry or working out of home equipments, or in any problems brought in from the field.

Care will be taken not to duplicate other courses and an effort will be made to utilize in actual practice material obtained in classroom and laboratories.

MILITARY SCIENCE AND TACTICS

LIEUTENANT 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 thru the War Department at actual cost, fourteen dollars and fifty cents. Students must deposit the 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; field 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. Three hours thruout the year. Six credits.
Tu. Th. Sat. 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 thruout 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 horti-

culture, 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. Three hours thruout the year. Six credits.

Tu. Th. Sat. 8:30

2. Second Year German. Allen's *German Composition;* games and conversation. Many texts rapidly read, from nineteenth century authors; one scientific text. Three hours thruout the year. Six credits.

Tu. Th. Sat. 11:00

3. Scientific German. Rapid reading of scientific texts during the first half year with private reading in different subjects according to course of each student. Specially recommended for students doing advanced work in agronomy, botany and other sciences. Prerequisite, two years of German. Two hours thruout the year. Four credits.

Wed. Fri. 10:10

German 4. Conversation and games including the learning of a part in a one-act play. One hour thruout the year. Two credits. Prerequisite, two years of German.

Wed. 11:50

German 5. Study of Heine's works. Especially recommended to returned missionaries who have been in Germany. One hour thruout the year. Two credits. Prerequisite, two years of German.

Fri. 11:50

SPANISH

1. Grammar, conversation, and rapid reading of modern texts and newspapers. Two hours thruout the year. Four credits.
Wed. Fri. 12:40

LATIN

LATIN 1. Grammar and reading and study of English vocabulary. Two hours a week thruout the year. Four credits.
Wed. Fri. 8:30

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.

1. NOTATION AND SOLFEGGIO. a. Melody writing, and simple chord formation. (From text.) b. Applied music in choir. Four hours thruout 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 thruout 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

*On leave.

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 thruout the year. Ten credits.

Tu. Th. Sat. 12:40; lab. Wed. Sat. 4:00

Note—For Courses 4, 5, 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 thruout 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 thruout 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 thruout the year. Ten credits.

COURSES FOR GRADUATES

7. INSTRUMENTATION. a. First term. b. Conducting, second term. Four hours thruout the year. Eight credits.

8. ORIGINAL COMPOSITION. a. Art songs, anthems, and cantata forms; small and large instrumental combinations,—pianoforte four-hands, trio, quartet, and orchestra. b. Ensemble (advanced). Prerequisite, Music 7. Four hours thruout 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 (pianoforte and strings), 1 hour a week. Band, 4 hours a week. Pianoforte class, 4, 6, and 8 hands, 2 hours a week.

9. BAND.

Th. 1:30 to 5:00

10. CHOIR AND QUARTET.
Tu. Th. Fri. 3:10; Wed. 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, Conconne, 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.

Pianoforte. Two years' study presupposed. First year, Gurlitt, Beyer, Czerny, Schmit, or Biehl. Second year, Bertini, Clementi, Kuhlau, Loeschorn, Heller. Third year, Czerny, Dorn, Hiller Gobbart, Craemer, Mozart, Haydn, and others. Fourth year, Craemer, Kessler, Clementi, Kullak, Gradus ad Parnassum, Schubert, Mendelssohn, Chopin.

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 WATKINS
ASSISTANT PROFESSOR JOHNSON
PROFESSOR R. O. PORTER

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 thruout 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 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

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 corrective body building; occasional lectures. Three periods a week thruout 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 thruout 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 thruout the year. Two credits.

Tu. Th. Sat. 3:10 to 4:00

15a. ADVANCED GYMNASTICS. Physical Education 11, prerequisite. Three periods a week thruout the year. Two credits.

Tu. Th. Sat. 1:30

Note—Where possible, students should register for 15a and 15b the same year.

15b. LECTURE. Outside reading on personal hygiene, sex hygiene, physiology of exercise, and first aid to the injured. Two periods a week thruout the year. Four credits.

Wed. Fri. 1:30

16. In and out-of-door games and play; folk dancing; collateral reading. Two periods a week thruout the year. Two credits.

Wed. Fri. 11:50

17. Social dancing for men and women who cannot dance. One period a week thruout the year. No credits.

Fri. 3:10

PHYSICS

PROFESSOR F. L. WEST
MR. EDLEFSEN

1. 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. Three recitations and one laboratory period thruout the year. Eight credits. Laboratory fee $2.

Rec. Tu. Th. Sat. 9:20; lab. Fri. or Sat. 1:30 to 4:00

2. GENERAL COLLEGE PHYSICS. A survey of the whole field of physics in order to lay a thoro 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, thruout the year. Eight credits. Laboratory fee $4.

Rec. Tu. Th. Sat 11:00; lab. Tu. Sat. or Wed. Fri. 1:30 to 4:00

3. ELEMENTARY APPLIED MECHANICS, THERMODYNAMICS, STEAM AND GASOLINE ENGINES. Two recitations thruout the year. Four credits.

Wed. Fri. 10:10

4. APPLIED ELECTRICITY. Two recitations and one laboratory period thruout the year. Six credits. Prerequisite, elementary physics. Laboratory fee $2.

Not given in 1916-17.

See Physics 9.

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. 10:10

(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. 10:10

7. ADVANCED LABORATORY WORK. Two to eight credits. Laboratory fee $2 to $8.

Daily, except Th. 1:30

8. MECHANICS, LIGHT, SOUND, THERMODYNAMICS, AND PHYSICAL CHEMISTRY. Two recitations thruout the year. Four credits. Prerequisite, Calculus.

Not given in 1916-17.

9. ELECTRICITY AND MAGNETISM. Two lectures thruout the year. Four credits.

Wed. Fri. 9:20

PHYSIOLOGY AND PHYSIOLOGICAL CHEMISTRY

PROFESSOR GREAVES
PROFESSOR R. O. PORTER
MR. CARTER

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 continu-

ation 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. Laboratory fee $1.

Wed. Fri. 1:30 to 4:00

See Bacteriology, page 76, for related work.

POLITICAL SCIENCE

PROFESSOR THOMAS
PROFESSOR DAINES
ASSISTANT PROFESSOR BROOKE

a. 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 thruout the year. Six credits.

Tu. Th. Sat. 11:50

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 thruout the year. Six credits.

Tu. Th. Sat. 11:00

4. The law of contracts; the law of agency; of partnership and of commercial paper. Six credits. *(Not open to freshmen.)*
Tu. Th. Sat. 9:20

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.)*
Not given in 1916-17.

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.

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. 1:30 to 4:00

See Agricultural Engineering, page 61, and Geology, page 96, for related work.

SOCIOLOGY

PROFESSOR THOMAS
PROFESSOR HENDRICKS

1. ELEMENTS OF SOCIOLOGY. The foundations of sociology: social organs, social structure, and social activities. Three hours thruout 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 86, for related work.

STENOGRAPHY AND TYPEWRITING

PROFESSOR P. E. PETERSON
MR. HOWELL

STENOGRAPHY

a. The fundamental rules of the Isaac-Pitman system, the Centenary Edition being used. Five hours thruout the year. Ten credits.

Daily, at 9:20

b. A continuation of "a" in which the rules of the system will be thoroly reviewed and applied, and the foundation for speed work laid. (This class will be confined to writers of the Isaac-Pitman system). Five hours thruout the year. Ten credits.

Daily, at 1:30

c. Devoted strictly to the acquisition of speed, and open to writers of any system. Three hours thruout the year. Six credits.

Tu. Wed. and Sat. at 2:20

1. For College Students Only. Intended to prepare teachers for commercial schools, and to train for Civil Service and verbatim work. Five hours thruout the year. Ten credits.

Daily, at 12:40

TYPEWRITING AND PENMANSHIP

a. Correct fingering and the proper manipulation of the machine. Five hours thruout the year. Two credits.

Daily, any hour

b. Daily exercises in which accuracy is required. Monthly speed tests. Five hours thruout the year. Two credits.

Daily, any hour

c. The development of a free, legible, business hand. Penmanship students will meet every Friday at 2:20. One hour thruout the year. Two credits.

1. For college students; all stenographic pupils must take this study: the transcription of notes on the machines. Five hours thruout 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 58.

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, thruout 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, thruout 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

ZOOLOGY

PROFESSOR TITUS
MR. HAGAN
MR. SORENSON

ZOOLOGY 1. HUMAN ANATOMY. An historical study of the anatomical structure of the human body from the standpoint of comparative anatomy. Two recitations and one laboratory period thruout the year. Six credits. Laboratory fee $1.

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 thruout the year. Six credits. Laboratory fee $1.

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 letcures, first term. Three credits.

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

4. EUGENICS. The principles of inheritance 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. Prerequisite, 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. Two lectures, two laboratory periods, thruout the year. Eight credits. Laboratory fee $2.

Lec. Wed. Fri. 11:50; lab. Tu. Sat. 11:00 to 1:30
Alternates with Zoology 6.

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 thruout the year. Eight credits.

Alternates with Zoology 5.
Not given in 1916-17.

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. Laboratory fee $1.

Wed. Fri. 9:20; lab. Sat. 1:30
Alternates with Zoology 8.

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.

Not given in 1916-17.

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, and one laboratory period. Four credits. Laboratory fee 50 cents.

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

10. CIVIC HEALTH. The sanitary necessities of a community: general history of sanitation, causes and spread of diseases, methods of prevention. 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 91, for related work.

TUESDAY, THURSDAY, SATURDAY, SCHEDULE 1916-17.

HOUR	8:30	9:20	10:10	11:00	11:50	12:40	1:30	2:20	3:10	4:00
AGRICULTURE										
Agronomy	q^{f}, 10^{s}	a^{f}		7^{f} T-11^{s} TTh, 12S			1^{s}T, 2^{s}T, 7^{s}T			
An. Husbandry		2	4^{s}	2 S S.		a	a Th.			
Bacteriology	a^{s}, 2^{f}			8^{f}			2^{f}Th, 3^{s} S			
Botany				1^{s}Th,S,			1^{2}TS, 4^{1}TS, 10T			
Chemistry	2', 7^{s}	8	2^{2f},2^{3s},1^{s}	1'	12		1'TS, 3'TS, 6S			
Dairying				3TTh						
Entomology						1^{s}	2 T			
Horticulture	1^{f},2^{s},10^{s}		9				3a^{f}			
Poultry							1^{s} T			
Vet. Science					4					
AGRIC. ENGIN.										
Agr. Surv.							4^{s}TS.			
Agr. Tech.										
Farm Mech.							3^{s}T,4^{f}S, 5^{s}S,2^{s}T			
Irrig.& Drainage	2^{s}	1^{f}	7^{s}, 9^{f}				3T^{s}, 9^{s}TS			
Roads				1^{f} 2^{s}			4^{s}T			
Rural Arch.	1^{f}			8^{f}	3^{f},4^{s}	9	5^{s}TTh			
Rural San.		2^{f}, 1^{s}		3^{f}						
COMMERCE										
Accounting		3	1b, e	b,d,4TTh,5^{s}	a,b,c,d,					
Economics		1, 4	2^{1}	2^{2}	12^{s}					
Finance & Banking	5^{f}, 7^{s}		b			1^{f},2^{s}				
Pol. Science	5	4		1	a					
Sociology					2^{s}	1				
Stenography		a				1	b	CTS		
Typewrit'g & Penship										
GEN. SCIENCE										
Art	2,26,27				22TTh		4S, 5, 6TS, 27			
Eloc.& Pub. Speak.			3		4	1				
English		b, 6^{1}	c, 21^{s}		6^{2}, 14					
Geology	2^{1}	2^{2}	3							
History	3a^{s}, 3b^{s}	4a^{s},4b^{s}	10^{f}			5				
Library										
Mathematics	7	5	b	a		3^{s},6^{s}				
Modern Languages	G.1	Fr.2	Fr.1	G.2						12S
Music					1	3	2a', 9Th, 1	9Th,10Th	3S, 11T	
Physics		1	5^{f}, 6^{s}	2			1S, 2TS, 7TS			
Phys.& Phys. Chem.	3^{s}	1^{f}, 2^{s}								
Zoology	3^{f}, 4^{s}	9^{f}, 10^{s}	3^{2f},4^{2s}	2'T, 5TS			7^{s}S			
HOME. ECON.										
Domestic Art		c^{f},d^{s}	c,d^{s},9^{s}		1^{f},2^{s},7^{s},11	1^{f},2^{s}, 11	4^{2}TTh	4^{2}TTh,5TTh	5TTh	
Food & Dietetics		5^{f},6^{s}	2TTh,5^{f},6^{s}	3TTh		9S	1'T,1^{2}S, 2'T, 2^{2}Th, 3Th			
Home Const. & San.		4								
MECHANIC ARTS										
Forging	a',b,c,	1^{f},2^{s},3^{f},4^{s},5^{f},6^{s}					a,b,c, 1^{f},2^{s},3^{f},4^{s},5^{f},6^{s}; allTS			
Mach. Work			10^{s}				1^{f},2^{s},3^{f},4^{s},5^{f},6^{s},7^{f},8^{s}; allTS			
Mech. Drawing	7^{f},8^{s},9^{f},10^{s},									
Wood Work	a,b,b,c', 1^{f},2^{s}, 3^{f},4^{s}, 5^{f},6^{s},10,9						a,b,b,c', 1^{f},2^{s},3^{f},4^{s},5^{f},6^{s}; allTS			
Technology M.A.				4^{s}, 7	5, 7	5				
Drill			1'T	3T		1^{2}T	Drill Thursday			
Phys. Education				11	13		15a	12	14	1^{f},2^{s},3^{f},4^{s},5^{f},6^{s},7,14
Exten. Methods					16					

"s" as exponent = second term only | "f" as exponent = first term only || large figures = college courses | figures as exponents = section || capital letters = days of week | small letters = high school courses

All subjects shall be examined in the schedule group of which they form a part.

WEDNESDAY, FRIDAY, SCHEDULE 1916-17.

HOUR	8:30	9:20	10:10	11:00	11:50	12:40	1:30	2:20	3:10	4:00
AGRICULTURE										
Agronomy		5	1^{f} 2^{s}				a^{t}W, 5 F, 11^{s} W			
An. Husbandry	6^{f}	8^{f},7^{s},9^{s}	1^{s}				1^{s}W, 5^{f}			
Bacteriology	1^{s}				1^{f}, 3^{s}		1^{f}, 1^{s}, 5^{f}			
Botany	1^{t}, 7^{f}	4	12			3^{f}F,5W	1^{t},3^{f},$5a^{f}$,$5b^{s}$,4^{2}			
Chemistry			1a,12^{f},14^{s}		4W,6F	17	1^{2},3^{s},4,6			
Dairying	1^{s}									
Entomology	2	4			5	3	3W			
Horticulture		4^{s}, 7W	$3a^{f}$,$3b^{s}$		8^{s}		4^{s}F, 7^{f}F, 8^{s}W			
Poultry	1^{s}, 2^{s}									
Vet. Science		1^{f}, 1^{s}				6^{s}	1^{f}W, 1^{s}W			
AGRIC. ENGIN.										
Aqr. Surv.						1W,4^{s}F	1			
Aqr. Tech.	1^{f}, 2^{s}									
Farm Mech	4^{t}W,5^{s}				1^{f}, 2^{s}		1^{t}W, 1^{f}F, 2^{s}W, 2^{s}F			
Irriq. & Drainage			3f			9^{s}F				
Roads	4^{s}									
Rural Arch.			5^{s}W							
Rural San.							2^{f}F, 5^{f}			
COMMERCE										
Accounting			8^{f},7^{s},8		a,b,c,d,1a,4^{s},7^{s},8^{f}					
Economics		5^{f}, 9^{s}								
Finance & Banking					8^{f}					
Pol. Science										
Sociology										
Stenography		a					b	cW		
Typewrit'g & Penship										
GEN. SCIENCE										
Art	1, 21, 27,		1, 21		3, 22		5,22,27,	5, 27		
Eloc.& Pub. Speak.	7					2				
English	7^{t}, 12,	b,7^{s},11	7^{3}			20				
Geology		4W	5^{s}, 9^{f}		b^{f}		4			
History	7		9			11				
Library			1W, 2F							
Mathematics	7		10			8				
Modern Languages	L.1,	Fr.3a	G.3		G.4W,5F	Sp1				
Music					10W				10F	10F,12W,2W
Physics		9	3				1F, 2, 7			
Phys.& Phys. Chem.							4^{s}			
Zoology	2^{1}	1, 7	2^{2}		5		1F, 2^{2}W, 9F			
HOME ECON.										
Domestic Art		$c^{t}$$d^{t}$W,$3^{1}$W, 3^{2}F			3^{1}	3^{1}, 4	4, 6	3^{2}, 6		
Food & Dietetics		7^{1}	7^{t}, 10			1	a			
Home Const.& San.		6	1^{s}, 3^{s}				2^{s}, 5^{f}			
MECHANIC ARTS										
Forging	a^{t},b^{s},c, 1^{t},2^{s},3^{t},4^{s},5^{t},6^{s},						a^{t},b^{s},C, 1^{t},2^{s},3^{t},4^{s},5^{t},6^{s},			
Mach. Work							c,1^{2},3^{s},4^{s},5^{s},6^{t},7^{s},8^{s},			
Mech. Drawing	a^{s},b^{s}, 1^{s},2^{s},3^{s},4^{s},5^{s},6^{s},									
Wood Work	a^{s},b^{s},b^{t},c^{t}, 1^{t},2^{s},3^{t},4^{s},5^{t}, 6^{s},9,10						a^{s},b^{t},b^{s},c^{t},1^{t},2^{s},3^{t},4^{s},5^{t},6^{s},9,10			
Technology M.A.			3			2^{t}, 6				
Drill			1^{3}W		2W	1^{4}W				
Phys. Education					16	8^{f}	15b		17	1^{2},3^{t},4^{s},5^{t},6^{s},7
Exten. Methods					1a,1b					

Student Body — Friday

Chapel — Wednesday

"s" as exponent - second term only | "t" as exponent - first term only | large figures - college courses | figures as exponents - section | capital letters - days of week | small letters - high school courses

All subjects shall be examined in the schedule group of which they form a part.

Members of the Alumni Association

CLASS OF 1894.

Robert W. Erwin.....506 LaSalle Bldg., St. Louis, Mo.
Bernard Dougall ..... Deceased
A. B. Larsen .....315 So. 4th West, Provo, Ut.
Martha Hoyt Myrick .....Marion, Ut.
John T. Caine, Jr. .....Richmond, Ut.
Jos. E. Shepherd ....Logan, Ut.

1895

Will Fred Culmer.....273 East 1st So., Salt Lake City, Ut.
Lewis A. Merrill .....Deceased

1896

Willard S. Langton .....Deceased
Christian Larsen .....Deceased
Walter W. McLaughlin .....2011 Crosby Ave., Oakland, Cal.
Amos N. Merrill .....Provo, Ut.
Lorin A. Merrill .....Richfield, Ut.
Josiah L. Rhead.....State Engineer's Office, Salt Lake City, Ut.
Jos. R. Thomson ... .Richmond, Ut.

1897

John H. Bankhead .....Logan, Ut.
Olla Barker .....51 So. 27th St., Ogden, Ut.
Clara Foster Bacon .....Logan, Ut.
Alfred H. Hart .....Bloomington, Ida.
Hermoine S. Hart .....Deceased
Thomas H. Humpherys .....Logan, Ut.
Chas. A. Jensen.....Rocky Mt. Beet Sugar Co., Rocky Ford, Colo.
Victoria Lundberg Anderson.....Box 184, Pocatello, Ida.
Rachel Maughan Wadsworth.....Logan, Ut.
Charles Pond .....Lewiston, Ut.
Mamie Smith Larsen .....Preston, Ida.
Anna Sponberg ..... Deceased
John Stewart .....U. S. Smelter Co., Salt Lake City, Ut.
O. J. P. Widtsoe .....382 Wall St., Salt Lake City, Ut.

1898

Frederick H. Atkinson.....419 E. 7th So., Salt Lake City, Ut.
Anna Beers Petty .....2555 Gramercy Ave., Ogden, Ut.
Mabel Bullen Young .....Richmond, Ut.
Joel J. Harris .....Adams Ave., Ogden, Ut.
A. Ray Irvine .....Walker Bldg., Salt Lake City, Ut.

1899

John S. Baker ..... Deceased
Wm. D. Beers ..... State Engineer, Salt Lake City, Ut.
Ethel Bullen Webb ..... Richmond, Ut.
Robert J. Gordon ..... 1008 6th Ave., So. Lethbridge, Alta., Canada
J. C. Hogenson ..... Logan, Ut.
Fred W. Merrill ..... DeLaval Separator Co., Chicago, Ill.
Jos. H. Peterson ..... Huntsville, Ut.
William Peterson ..... Logan, Ut.
Walter W. Simmonds ..... Salmon City, Ida.
Arthur P. Stover ..... 207 Tilford Bldg., Portland, Ore.

1900

Stanley Crawford ..... Deceased
Burton P. Fleming ..... Univ. of Iowa, Iowa City, Iowa
Rose Homer Widtsoe ..... 382 Wall St., Salt Lake City, Ut.
Wm. H. Homer, Jr. ..... 694 1st Ave., Salt Lake City, Ut.
Jos. W. Jensen ..... Ogden, Ut.
Elizabeth Maughan Nye ..... Paris, Ida.
William Nelson ..... Bud Hall, Berkeley, Calif.
George F. Taylor ..... State Engineer's Office, Salt Lake City, Ut.

1901

Blanche Cooper ..... Logan, Ut.
Esther Evans Davis ..... Malad, Idaho
Mary Almeda Perry ..... Cedar City, Ut.
Charles B. Smith ..... Box 4, Twin Falls, Ida.
Mattie E. Stover ..... Experiment Sta., Berkeley, Calif.

1902

Amanda Holmgren Santschi ..... Logan, Ut.
Edward P. Pulley ..... Logan, Ut.
Robert Stewart ..... Univ. of Illinois, Urbana, Ill.

1903

John T. Caine III ..... Logan, Ut.
Thomas C. Callister, Jr. ..... Fillmore, Ut.
Chas. F. Brown ..... 933 East 11th So., Salt Lake City, Ut.
Grace Fisher ..... Menominee, Wis.
Lydia Holmgren Tanner ..... Weber Academy, Ogden, Ut.
Ambrose P. Merrill ..... Provo, Ut.
Josephine Maughan Wells ..... Ashervlile, Kan.
Aquilla C. Nebeker ..... 828 Browning Ave., Salt Lake City, Ut.
Frederick D. Pyle ..... 715 North 3rd St., Montrose, Colo.
May Maughan Snow ..... Moscow, Ida.

1904

Edmund Crawford ..... Castledale, Ut.
Geneva Egbert Chase .....R. F. D. No. 1, Farmington, Ut.
Joseph E. Greaves .....Logan, Ut.
Ray Homer Fisher .....Rigby, Ida.
Roy Fisher Homer .....Cedar City, Ut.
William Jardine.....Experiment St., Manhattan, Kan.
Chas. A. McCausland.....Logan, Ut.
Samuel P. Morgan .....Preston, Ida.
E. G. Peterson .....Logan, Ut.
David Stephens ..... Moro, Ore.
Warren G. Swendsen .....Boise, Ida.
F. L. West .....Logan, Ut.
R. B. West .....Logan, Ut.

1905

Richard Ballantyne .....1161 Bueno Ave., Salt Lake City, Ut.
James E. Barrack .....Fairbanks, Alaska
Verna P. Bowman .....Ogden, Ut.
Blanche C. Hyde .....Meredith Apts., Salt Lake City, Ut.
John L. Coburn .....Logan, Ut.
Eva Farr Perry .....Ogden, Ut.
John J. Frederickson ..... Malad, Ida.
James T. Jardine.....Forest Service, U. S. D. A., Washington, D. C.
Hazel Love Dunford .....Logan, Ut.
Ella Maughan Hull .....Whitney, Ida.
Melvin C. Merrill.....Idaho Inst. of Tech., Pocatello, Ida.
Eugene Snow Pierce .....Salt Lake City
C. W. Porter .....Logan, Ut.
Samuel G. Rich .....Burley, Ida.
Roy Rudolph .....Logan, Ut.
Edith Rudolph Hillman .....Culver, Ore.
James Henry Smith.....
J. Ed. Taylor .....Sec. of State Hort. Comm., Salt Lake City, Ut.
John Henry Tuttle .....Salt Lake City, Ut.

1906

Irvine Allred .....Logan, Ut.
Mildred Forgeon Rich .....Burley, Ida.
Minnie Peterson Isgreen.....224 West 3rd No., Salt Lake City, Ut.

1907

P. G. Peterson .....Provo, Ut.
Fred Mathews .....Supt. Winchester Farm, Midvale, Ut.
Inez Powell Belnap .....2173 Adams Ave., Ogden, Ut.
Frank Moench .....Logan, Ut.
J. L. Kearns .....Park City, Ut.
F. D. Farrell .....U. S. D. A., Washington, D. C.
B. F. Riter, Jr.....Suite 726, Washington Bldg., Los Angeles, Calif.
Aaron Olsen .....Logan, Ut.

1908

George R. Hill ..... Logan, Ut.
C. N. Jensen ..... Logan, Ut.
Hans. E. Jensen ..... Ephraim, Ut.
Alva Hansen ..... Sandy, Ut.
Heber Carver ..... Brigham, Ut.
Ellis Hudman ..... Rock Springs, Wyo.
Russell K. Homer ..... R. F. D., Provo, Ut.
Eunice E. Jacobsen ..... American Fork, Ut.
William L. Walker ..... 6 Ellsworth Ave., Cambridge, Mass.
Eugene Santschi ..... Logan, Ut.

1909

Hugh Robert Adams ..... Hyrum, Ut.
Jessie Anderson Hougaard ..... Manti, Ut.
Earl Bennion ..... R. F. D. No. 7, Murray, Ut.
Earnest Carroll ..... Logan, Ut.
Phillip Cardon ..... B. P. I., U. S. D. A., Washington, D. C.
William Parley Day ..... Salt Lake City, Ut.
Robert J. Evans ..... Logan, Ut.
Chas. E. Fleming ..... Forest Service, Las Cruces, N. Mex.
Leon Fonnesbeck ..... Logan, Ut.
Nellie Hayball Bennion ..... R. F. D. No. 7, Murray, Ut.
Ernest P. Hoff ..... Georgetown, Ida.
John R. Horton ..... 6328 Constance St., New Orleans, La.
Julius H. Jacobsen ..... Bur. Pl. Ind., Mitchell, Neb.
Ethel Lee ..... Springville, Ut.
Lizzie McKay Hill ..... Logan, Ut.
Daniel L. Pack ..... Provo, Ut.
Ina Stratford ..... Lehi, Ut.
Geo. M. Turpin ..... I. A. C., Ames, Ia.
Cadmus Wallace ..... Smithfield, Ut.
E. H. Walters ..... Univ. Club, Washington, D. C.
A. E. Aldous ..... U. S. D. A., Washington, D. C.

1910

Rodney C. Allred .....
A. B. Ballantyne ..... Provo, Ut.
Chas. E. Barrett ..... Logan, Ut.
Helen L. Bartlett ..... 361 3rd Ave., Salt Lake City, Ut.
Ethel Bennion ..... Granite H. S., Salt Lake City, Ut.
Asa Bullen ..... Logan, Ut.
Ray B. Curtis ..... Victor, Ida.
Veda Dixon Hamron ..... Bingham, Ut.
Florence Dudley Cook ..... Fish Haven, Ida.
Odessie LaPreal Hendricks ..... Lewiston, Ut.
C. T. Hirst ..... Logan, Ut.
Joseph Grue ..... Rexburg, Ida.
Alice Kewley ..... Granite H. S., Salt Lake City, Ut.
Orson G. Lloyd ..... I. A. C., Ames, Ia.

Orville L. Lee ..... Hyde Park, Ut.
Amy Jane Leigh ..... Rexburg, Ida.
A. M. McOmie ..... Univ. of Ariz., Tucson, Ariz.
Inez Maughan ..... Richmond, Ut.
Lavinia Maughan ..... Preston, Ida
Amelia Manning Barker ..... Ogden, Ut.
Dean F. Peterson ..... Hinckley, Ut.
Erastus Peterson ..... Wells, Nev.
Susannah Perry Olsen ..... Ephraim, Ut.
James D. Pence ..... Castledale, via Buhl, Ida.
Willard L. Peterson ..... Pocatello, Ida.
William Corlett Riter... Care Gen. Film Co., P. O. Place, S. L. City, Ut.
Vincent A. Sadler..... City Auditor's Office, Salt Lake City, Ut.
James H. Stewart ..... Society of Equity, Logan, Ut.
Robert H. Stewart ..... Price, Ut.
Mrs. Winnifred Smith Whitehead..2241 Park Ave., Indianapolis, Ind.
Nora Sonne .....
A. H. Saxer ..... Logan, Ut.
Aaron F. Rasmussen..... Rexburg, Ida.
Franklin A. Wyatt..... 404 E. Springfield Ave., Champaign, Ill.
William B. Oldham ..... High School, Sugar City, Ida.

1911

Junius J. Andrews ..... Ogden High School, Ogden, Ut.
James Arthur Armstrong ..... Salt Lake City, Ut.
Wilbur M. Ball ..... High School, Wheeling, W. Va.
A. E. Bowman..... 514 So. 12th St., Laramie, Wyo.
Harry P. Barrows ..... Brigham, Ut.
LeRoy Beagley ..... Roosevelt, Ut.
Edgar Brossard ..... Logan, Ut.
E. P. Burton..... State Dairy Demon., Laramie, Wyo.
Frank M. Brown ..... Liberty, Ida.
Clifton Geo. Busby ..... West Side H. S., Salt Lake City, Ut.
L. L. Cook..... Garden City, Ut.
A. C. Cooley ..... Agr. College, State College, N. Mex.
Anna Corneal Christensen ..... Jordan H. S., Sandy, Ut.
Newel H. Comish ..... Franklin, Ida.
L. Samuel Christensen ..... Burley, Ida.
Ira A. Cole ..... Logan, Ut.
Ivan R. Egbert ..... Rush Medical College, Chicago, Ill.
Frederick Froerer..... 412 25th St., Ogden, Ut.
Elizabeth Frazee Caine ..... Richmond, Ut.
Anant Madhav Gurgar..... U. of California, Berkeley, Calif.
Heber C. Hancock..... Dept. of Med., U. of U., Salt Lake City, U.
James A. Holden..... B. P. I., U. S. D. A., Washington, D C.
Elda Havenor .....
August L. Hansen ..... Logan, Ut
Sara Huntsman ..... Logan, Ut.
Leah Ivins Cardon..... Ethelhurst Apts., Washington, D. C.
Clarence E. Jones ..... Kamas, Ut.
Wm. Leroy Jones ..... Fillmore, Ut.

Lucile Jensen Cooley.....Agr. College, State College, N. Mex.
Alma J. Knapp .....Beaver, Ut.
Coral L. Kerr Aldous...Care A. E. Aldous, U.S.D.A.,Washington, D.C.
J. Carlos Lambert .....Kamas, Ut.
Walter A. Lindsay .....Lewiston, Ut.
Clyde W. Lindsay .....Brigham, Ut.
George L. Morrison .....Preston, Ida.
Merrill O. Maughan.....American Fork, Ut.
August L. Nelson.....Cal. Polytech. School, San Luis Obispo, Calif.
Mathew A. Nelson.....Johns Hopkins University, Baltimore, Md.
Annie Nibley Bullen .....Logan, Ut.
John K. Olsen .....Ephraim, Ut.
John S. Padock.....For. Serv., Sheridan, Mont.
Jesse L. Peterson.....For. Serv., Portland, Ore.
Clara F. Parrish .....Logan, Ut.
Canute Peterson.....560 So. 5th E., Salt Lake City, Ut.
Henry T. Plant .....Richmond, Ut.
W. L. Quayle .....Cheyenne, Wyo.
Earl Robinson .....Richmond, Ut.
D. Earle Robinson .....Logan, Ut.
E. T. Ralph .....215 So. 3rd E., Salt Lake City, Ut.
George Leroy Reese .....Benson, Ut.
Juanita Rich .....Logan, Ut.
W. Wiley Sessions .....Pocatello, Ida.
Charles Snow, Jr. .....Monticello, San Juan Co., Ut.
A. E. Stratford .....732 24th St., Ogden, Ut.
Georgia Smurthwaite .....Salt Lake City, Ut.
James Tovey .....Malad, Ida.
Jos. A. Willey.....Forestry Bldg., Ogden, Ut.
Robert L. Wrigley .....Cedar City, Ut.
L. M. Winsor.....935 Edison St., Salt Lake City, Ut.
Edward H. Watson .....Salt Lake City, Ut.
John S. Welch .....Gooding, Ida.
Diamond Wandleboe.....Owen Sound, Ontario, Canada
Vern C. Woolley .....295 Edge Lane, Liverpool, England
George L. Zundel.....B. Y. C., Logan, Utah

1912

Byron Alder ..... Logan, Ut.
John A. Alder.....1469 So. 21st E., Salt Lake City, Ut.
M. J. Andrews, Jr. .....Tooele, Ut.
Harry C. Beers.....Beers and Beers, Real Estate Co., Champaign, Ill.
Isaac B. Ball.....3505 So. 7th E., Salt Lake City, Ut.
Harry Beagley .....Nephi, Ut.
Hervin Bunderson .....Brigham, Ut.
Lofter Bjarnason .....Richfield, Ut.
Alice D. Bowen .....
George R. Braithwaite .....Lava Hot Springs, Ida.
Martha M. Boulton .....Park City, Ut.
George B. Caine .....Logan, Ut.
Taylor M. Carmichael .....Lehi, Ut.
Orson A. Christensen .....Brigham, Ut.

Truman J. Cole .....
Anna Leona Cowley Olsen (Mrs. J. W. Olsen).....Preston, Ida.
Elizabeth Woolley Jensen .....Logan, Ut.
Alice A. Dunford Green .....1934 Monroe St. Madison, Wis.
Arthur D. Ellison...Supt. Arlington Farm, U.S.D.A., Washington, D.C.
M. R. Ensign .....Brigham, Ut.
Ethel T. Erdman Izatt.....Lewisville, Ida.
Vivian Erickson Porter.....Logan, Ut.
Magdalen Funk Sessions .....Pocatello, Ida.
Willard Gardner.....Physics Dept. U. of Cal., Berkeley, Cal.
Reuben L. Hill..Dept. of Phys. & Biochemistry, Cornell U.,Ithaca,N.Y.
Vivian Hatch Bullen .....Logan, Ut.
L. R. Humpherys .....Logan, Ut.
M. Irene Hendrickson Nesbitt.....Logan, Ut.
Clara Hyde Turner .....Devil's Slide, Ut.
Angus Izatt .....Lewisville, Ida.
Orson W. Israelson .....Logan, Ut.
J. W. Jones .....Nephi, Ut.
David S. Jennings.....Asst. in Soils, Cornell Univ., Ithaca, N. Y.
Vere L. Martineau.....Co. Demonstrator, Ratona, N. Mex.
Charles Leo Merrill.....Rush Med. College
John A. Morrison.....Preston, Ida., County Demonstrator
Wilford N. Moses .....Smithfield, Ut.
Eleda Nelson Erickson .....Preston, Ida.
Aaron Newey .....Logan, Ut.
James G. Osmond.....6th Ellsworth Ave., Cambridge, Mass.
John W. Peters .....Brigham, Ut.
Ralph W. Porter .....Logan, Ut.
Howard B. Schweitzer .....Richfield, Ut.
Melvin S. Smart .....Fillmore, Ut.
Wm. Leroy Smith.....Rush Med. College, Chicago, Ill.
L. A. Stevens .....Hinckley, Ut.
John P. Sorenson .....Logan, Ut.
Wallace J. Vickers .....Nephi H. S., Nephi, Ut.
William John Wilson .....Eden, Ut.
Heber J. Webb .....Sandy, Ut.
William G. Woolley .....Monroe, Ut.

1913

Katherine P. Adams .....Richfield, Ut.
Mary L. Bastow.....B. Y. C., Logan, Ut.
Edward L. Barrett.....Wellington, Kan.
Heber Bennion, Jr.....Lehi, Ut.
Theron Bennion .....Lehi, Ut.
Vernon A. Bird.....Springfield, Ut.
Ivy M. Burnham.....Kanab, Ut.
Josephine Burton.....Afton, Wyo.
Asael W. Burke.....Hyde Park, Ut.
Mark C. Brown.....Princ. Whittier School, Salt Lake City, Ut.
Clawson Y. Cannon.....Boise, Idaho
Marie Carlson Teets.....Colorado Sc. of Mines, Golden, Colo.
Ezra G. Carter.....Logan, Ut.

William L. Clarke.....5729 Maryland, Chicago, Ill.
D. R. Coombs.....Prin. Riverside Sc., Salt Lake City, Ut.
Ethel Davenport .....Manti, Ut.
A. H. Dixon .....
Geo. M. Fister.....911 E. 57th St., Chicago, Ill.
J. D. Foster.....St. George, Ut.
B. A. Fowler.....Tooele, Ut.
George Gardner .....Logan, Ut.
Walter Glenn .....Brigham, Ut.
M. R. Gonzales.....Co. Demon., Las Vegas, N. Mex.
Mark H. Green.....Univ. of Wis., Madison, Wis.
Katherine Elizabeth Groebli.....Logan, Ut.
Lon J. Haddock.....978 Brooks Ave., Salt Lake City, Ut.
E. S. Hallock.....Prin. Fremont School, Salt Lake City, Ut.
Chas. F. Hansen.....St. George, Ut.
Henry L. Hansen.....American Fork, Ut.
James E. Haslam.....2528 Madison Ave., Ogden, Ut.
Hyrum L. Hartvigsen.....33 W. 126th, New York City, N. Y.
Joseph Hickman .....Logan, Ut.
Edwin J. Holmgren.....Bear River City, Ut.
LeGrande Hunsaker.....Honeyville, Ut.
Veda L. Hunsaker .....Brigham, Ut.
Norman Jensen .....Brigham, Ut.
Olive E. Jensen.....Brigham, Ut.
Myrtle I. Johnson.....Kamas, Ut.
Elmer E. Jonsson.....Logan, Ut.
Gordon I. Kirby .....
.....Care Cannon Bros. Dairy, 603 So. 7th E., Salt Lake City, Ut.
Robert J. Kewley.....U. S. Bur. Ent., College Park, Md.
W. W. Knudson.....Brigham, Ut.
Ivy E. Harmon .....Logan, Ut.
John I. Lauritzen.....Dept. Pl. Phys., Cornell Univ., Ithaca, N. Y.
Mary Lucille Lee.....Bingham, Ut.
Arnold Lowe .....
John Luscher .....Preston, Idaho
Amy Lyman Merrill.....Ida. Inst. of Technology, Pocatello, Idaho
Menzies Macfarlane.....25 S St., Salt Lake City, Ut.
Vera Madsen .....Driggs, Ida.
Anna M. Mathison.....American Fork, Ut.
Bryant S. Martineau.....Forestry Bldg., Ogden, Ut.
Howard J. Maughan .....Logan, Ut.
William J. McCoy.....P. O. Box 602, Salt Lake City, Ut.
Robert W. McMullin.....Nephi, Ut.
Virgil L. Minear .....Jackson, Wyo.
Ernest Mohr .....Bingham, Ut.
Adella Morell .....Logan, Ut.
Florence A. Munro Adams.....Bingham, Ut.
Etta Nelson .....Fillmore, Ut.
Junius F. Ogden.....Richfield, Ut.
J. W. Olsen.....Preston, Ida.
Norman V. Peterson.....Monroe, Ut.
John Henry Peterson.....Richmond, Ut.
Herbert J. Pack.....L. D. S. U., Salt Lake City, Ut.

F. N. Poulson.....Princ. Franklin School, Salt Lake City, Ut.
W. D. Prosser.....Princ. Grant School, Salt Lake City, Ut.
Sterling E. Price.....School for Deaf and Dumb, Ogden, Ut.
W. S. Rawlings.....Princ. Jackson School, Salt Lake City, Ut.
Harry S. Reed.....2341 Adams Ave., Ogden, Ut.
Evelyn Reilley.....530 So. 3d St., Salt Lake City, Ut.
B. L. Richards.....Logan, Ut.
Abel S. Rich.....Brigham, Ut.
Lester A. Richardson.....Pleasant Grove, Ut.
Charles W. Reese.....Logan, Ut.
David Sharp, Jr.....Cedar City, Ut.
Pattie Barrett Sharp.....Cedar City, Ut.
Jos. F. Skinner.....Spanish Fork, Ut.
Leslie A. Smith.....Logan, Ut.
Frank D. Spencer.....155 2nd Ave., Salt Lake City, Ut.
H. J. Stearns.....1157 East 5th So., Salt Lake City, Ut.
George Stewart .....Logan, Ut.
Herman W. Stucki.....Santa Clara, Ut.
Samuel Van Tunks.....
Alfred Stucki.....Panhandle Inst., Goodwell, Okla.
Lenore Ure Carroll.....Logan, Ut.
Louis B. Wangsgaard.....Brigham, Ut.
Ione Wangsgaard .....Brigham, Ut.
Vera Weiler .....Sandy, Ut.
Joseph P. Welch.....Hinckley, Ut.
Chas. H. West.....Univ. of Calif., Berkeley, Calif.
John E. White.....Hyrum, Ut.
J. T. Worlton.....Princ. Poplar Grove Sc., Salt Lake City, Ut.

1914.

Andrew P. Anderson.....Levan, Ut.
Wm. Baker .....Bunkerville, Nev.
Wm. Batt .....Driggs, Ida.
Joseph D. Barker.....Huntsville, Ut.
Aaron F. Bracken.....Logan, Ut.
Roland Elmer Brossard.....Wellsville, Ut.
Bryant Bullen .....Logan, Ut.
Archie L. Christiansen.....Tooele, Ut.
Axell Christensen.....Elsinore, Ut.
Hans. A. Christiansen.....Beaver, Ut.
John S. Christensen.....Cedar City, Ut.
Grover Clyde .....Springville, Ut.
Alfred B. Caine.....Dept. of An. Hus., Ames, Iowa
Amos R. Griffin.....Newton, Ut.
George Ray Hales.....American Fork, Ut.
Martin L. Harris.....Roosevelt, Ut.
Gerald Kerr .....Logan, Ut.
Roy M. Madsen.....Woodville, Ida.
John Kenneth Peart .....
Hartlett Powell .....334 So. 7th E., Salt Lake City, Ut.
Ezra R. Price .....
Edwin W. Stephens.....Sandy, Ut.

Charles J. Sorenson.....U. A. C., Logan, Ut.
Preston Thomas .....County Agr. Demonstrator, Ogden, Ut.
Ernest Thomas Young.....Brigham, Ut.
Ferdinand C. Alder.....Gunnison, Ut.
Ethan Lasalle Allen.....Kingston, Ut.
Eugene Frew .....Hooper, Ut.
George Marion Hess .....
Stanley S. Ivins.....Enterprise, Ut.
William Leon Pond .....
Gronway R. Parry.....Cedar City, Ut.
Percy N. Shelley.....Winchester Farm, Midvale, Ut.
Joseph H. Snow.....Kanab, Ut.
A. P. Warnick.....Manti, Ut.
Wm. E. Goodspeed.....Logan, Ut.
Hans. P. Anderson.....Hyrum, Ut.
Charles F. Martineau.....Forest Service, Anaconda, Mont.
John A. Sharp.....Sugar City, Ida.
Merline J. Stone.....Goldfield, Nev.
Harold R. Hagan.....U. A. C., Logan, Ut.
Ivan L. Hobson .....Laramie, Wyo.
Lynn Andrus .....Afton, Wyo.
Lyman Kidman.....Granite H. S., Salt Lake City, Ut.
Brice McBride .....Salt Lake City, Ut.
Ralph E. Wooley.....Grantsville, Ut.
John E. Bowen.....Carey, Ida.
Julius B. Bearnson.....Shelley, Ida.
Jesse N. Ellertson .....Price, Ut.
Leo. B. Clawson..... Deceased
Gilbert L. Janson.....Cedar City, Ut.
George A. Johnson.....Pocatello, Ida.
David J. Nelson .....
Care Messrs. Niles & Niles, 111 Broadway, New York City, N. Y.
John O. Pence.....Mt. Home, Ida.
Wilber E. Thain.....Logan, Ut.
Ed. J. Laurenson.....Twin Falls, Ida.
Ezra B. Parkinson.....Logan, Ut.
Horace R. Argyle.....Grayson, Ut.
Reginald R. Bacon.....Afton, Wyo.
Parley A. Christensen.....Garland, Ut.
Josephine Chambers .....Deceased
Earl W. Fraser.....Princ. Bonneville School, Salt Lake City, Ut.
Grandison Gardner .....Univ. of California
Genevieve Hillman .....Sunnydell, Ida.
Jack Major .....Afton, Wyo.
Preston R. Merrill.....Tremonton, Ut.
Charles P. McGregor.....Cleveland, Ida.
Osmon Justesen .....Grantsville, Ut.
Moses Reeder .....Logan, Ut.
Ivie Richardson .....Preston, Ida.
George W. Thatcher.....U. A. C., Logan, Ut.
Eda Gertrude Willard.....Strong, Me.
Ellen Agren .....L. D. S. U., Salt Lake City, Ut.
Rhoda B. Cook.....Logan, Ut.

May Isaacson ..... Hyrum, Ut.
Violet Greenhalgh ..... Utah Exp. Sta., Logan, Ut.
Pearl C. Nielson ..... Logan, Ut.
Afton Parrish ..... Ephraim, Ut.
Laura E. Peters ..... B. Y. C., Logan, Ut.
Nettie Peterson ..... Murray, Ut.
Mary Naomi Reese ..... Heber, Ut.
Mary A. Shaw ..... Logan, Ut.
Effie Warnick ..... Cedar City, Ut.
Jean R. Woodside ..... Logan, Ut.
Oswald Christensen ..... Preston, Ida.
Ernest Wangsgaard ..... Granite H. S., Salt Lake City, Ut.

1915.

Clarence H. Forbes ..... Ogden, Ut.
John L. Jones ..... Monroe, Ut.
Rupert Morrill ..... Circleville, Ut.
Olof H. Nelson ..... Logan, Ut.
Leonard G. Nuttall ..... Blackfoot, Ida.
George L. Barron ..... Mt. Pleasant, Ut.
N. I. Butt ..... U. A. C., Logan, Ut.
Archibald E. Darley ..... Wellsville, Ut.
John F. Finley ..... Goshen, Ut.
Frederick Hodapp ..... Huntington, Ut.
G. Stewart Horsley ..... Brigham, Ut.
R. V. Huffaker ..... Hinckley, Ut.
Daniel F. Olson ..... Murray, Ut.
J. S. Robinson ..... U. A. C., Logan, Ut.
Ross T. Rowe ..... Spanish Fork, Ut.
David L. Sargent ..... Grace, Ida.
A. E. Sells ..... Kamas, Ut.
D. W. Smith .....
George L. Tanner .....
Asael J. Taylor ..... Price, Ut.
F. D. Thatcher ..... Sandy, Ut.
L. W. Tuttle ..... Morgan, Ut.
S. K. Daniels ..... Vernal, Ut.
A. D. Egbert ..... Poultry Dept. U. A. C., Logan, Ut.
B. R. Eldredge ..... Salt Lake City, Ut.
W. E. Nielson ..... Salina, Ut.
Stephen C. Perry ..... Ogden, Ut.
E. F. Stewart .....
A. L. Cook ..... Idaho Falls, Ida.
John P. Benson ..... Cornell Univ., Ithaca, N. Y.
Nels W. Christiansen ..... Ephraim, Ut.
Clarence E. Cotter ..... Lehi, Ut.
Edwin S. Smith ..... Grace, Ida.
Leonard L. Davidson ..... Ogden H. S., Ogden, Ut.
Earl T. Jones ..... Logan, Ut.
J. Floyd Knudson ..... Brigham, Ut.
J. B. Walker ..... Sandy, Ut.
Hugh Williams ..... Logan, Ut.

J. Glenn Alleman.....Springville, Ut.
Orba Ellsworth .....Rigby, Ida.
Eli F. Lee.....Brigham, Ut.
David R. Packard.....Springville, Ut.
Verne B. Thorpe .....
Alonzo T. Barrett.....Logan, Ut.
George D. Casto .....Ann Arbor, Mich.
Annette Goodwin .....Logan, Ut.
Ellen R. Hinckley.....Logan, Ut.
Rudolph Victor Larsen.....Smithfield, Ut.
Ruel Derby Merrill.....Richmond, Ut.
Barbara Pace .....Price, Ut.
John Karl Wood.....Logan, Ut.
Nellie Barker .....Ogden, Ut.
Hedvig Benson Kjar.....Manti, Ut.
Christine B. Clayton.....Jordan H. S., Sandy, Ut.
Veda G. Cooper.....Kaysville H. S., Kaysville, Ut.
Ethel Culter .....Preston, Ida.
Lillian S. Elder.....Mt. Pleasant, Ut.
Hortense Hansen Major.....Afton, Wyo.
Inez Maughan .....Richmond, Ut.
Lottie Kunz .....B. Y. C., Logan, Ut.
Alice Morrison .....Moroni, Ut.
Emma Mouritsen .....Rigby, Ida.
Mattie Othelia Peterson.....U. A. C., Logan, Ut.
Rozina Skidmore .....Cedar City, Ut.
Lavina Richardson .....Smithfield, Ut.
Effie Webb .....St. George, Ut.
Etelka White .....Tooele H. S., Tooele, Ut.
Hettie White .....Beaver, Ut.
Ed. John Passey.....Brigham, Ut.
John H. Pendleton.....Richmond, Ut.
Dan Arthur Swenson .....U. A. C., Logan, Ut.

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.....Springville
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.....Nephi
Smith, David Winter.....Salt Lake City
Tanner, George Leroy.....Whitney, Idaho
Taylor, Asael 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
Nielson, 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

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 ..... Richmond
Nelson, Etta ..... Logan
Pace, Barbara ..... Price
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, 1915-16

Scholarship. The following students have been selected as deserving special distinction for high achievement in scholarship. They will, accordingly, receive either a "Scholarship A" or "Honorable Mention" for scholarship:

Scholarship "A":

Conrad Carlson
Glenn Voorhies
Carl B. Johnson
C. Elmer Barrett
Ethel Hale
Mrs. Cora McBride

Honorable Mention:

W. F. Heyrend
C. E. Smith
H. R. Merrill
J. W. Wright
Jesse Eccles
Mrs. Alberta Porter
Chase Kearl
Joseph Nielsen

Student Body Officers:

A. C. Carrington, President
Kathleen Bagley
Alta Calvert
Tura Aldous
William Starley
J. W. Thornton
Howard Maughan
Grover Lewis
Asael Palmer
Ivor Sharp
Ebenezer Kirkham
Alma Wilson
Nelson Young
Francis Coray
Grant Ivins
Eastman Hatch
Joseph S. Quinney

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

Joseph S. Quinney
Moses F. Cowley
Clarence E. Smith
David Freedman
Willis Smith
John Russell
Harold Peterson

Howard Maughan

Inter-class Winners:

O. W. Jarvis
Ivor Sharp

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

Asael E. Palmer
Joseph S. Quinney

"Student Life" Staff:

Lowry Nelson, Editor
Joseph S. Quinney
Edwin K. Winder
Kathleen Bagley
Harrison R. Merrill
J. W. Thornton
J. Eastman Hatch
Moses F. Cowley

Battalion Roster:

Field and Staff Officers

G. W. Thain, First Lieut. and Adjutant
G. P. Barber, First Lieut. and Quartermaster
Sumner Hatch, First Lieut. Casual Officer
R. A. Smith, Sergeant Major
Ray Becraft, Color Sergeant
M. Powell, Quartermaster Sergeant
G. Clawson, Trumpeter Sergeant

Company A

Captain, Roy Hillam
First Lieut., J. M. Woodhouse
Second Lieut., F. A. Johnson
First Sergeant, F. L. Whitear
Sergeant, H. Cook
Sergeant, Slaugh
Sergeant, W. S. Bearson
Corporal, J. W. Connell
Corporal, L. B. Cardon
Corporal, Jos. A. Josephson
Corporal, John Russell

Company B

Captain, Moses F. Cowley
First Lieut., L. McCullough
Second Lieut., Milton Mathisen
First Sergeant, Geo. Holmstead
Sergeant, Cedric Snow
Sergeant, Miles Browning
Sergeant, Solon Barber
Sergeant, Victor Lindbald
Corporal, Clarence Cotter
Corporal, Jean Woodside
Corporal, Lee Dean
Corporal, Glenn Winget
Corporal, S. R. Stock

Company C

Captain, Waldo Riter
First Lieut., Reuben Jonson
Second Lieut., Foss Richards
First Sergeant, C. B. Johnson
Sergeant, Ivor Sharp
Sergeant, L. M. Price
Sergeant, E. B. Olsen
Corporal, Robert Pixton
Corporal, Russell Croft
Corporal, Carlisle Hinckley
Corporal, W. C. Dunford
Corpora, Hugh Sutton

Company D

Captain, Victor Hendricks
First Lieut., H. M. Earl
Second Lieut., Levi Riter
First Sergeant, Preston Budge
Sergeant, Bernard Bergeson
Sergeant, Irvin Poulter
Sergeant, D. C. Merrill
Corporal, Clement West
Corporal, Scott Ewing
Corporal, Fielding Barlow
Corporal, Ira Hayward

List of Students, 1915-1916

(Not including Farmers' Conventions and Housekeepers' Conferences)

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; "p" for practical course

Adams, Basil H. c-Sp.....Tremonton
Adams, Margaret, ho-Sp.....Logan
Adams, Renick, c-W.....Logan
Adams, Venice, c-W.....Logan
Aldous, Clarence M., a-Sp.....Sterling, Idaho
Aldous, Tura M., g-S.....Sterling, Idaho
Allen, Albern Ethan c-Sp.....Providence
Allen, Erma ho-J.....Salt Lake City
Allen, Samuel Ray, ma-Sp.....LaGrande, Oregon
Allen, Viola, ho-F.....Raymond, Alta, Canada
Allison, Genevieve, ss.....Ogden
Allred, Harvey, ss.....Fairview, Wyo.
Alvord, Lewis, c-Sp.....Logan
Anderson, Albert, c-F.....Rear River City
Anderson, Andrew W., a-S.....Fairview
Anderson, Ferris L., a-F.....Lehi
Anderson, Hans P., ss.....Hyrum
Anderson, James Ira, ma-J.....Ogden
Anderson, Mirl, ho-S.....Brigham
Anderson, Ross, g-Sp.....Logan
Anderson, Wilford, ma-W.....Logan
Anderson, Wilford John, g-F.....Fillmore
Andrews, Elva Huff, ss.....Ogden
Andrews, Junius J,. ss.....Ogden
Andrews, M. J., ss.....Tooele
Aslett, Geo. W., ma-W.....Lava Hot Springs, Idaho
Atkinson, Earl Jos., g-F.....Dayton, Idaho
Avedian, Giragos, a-Sp.....Sivas, Turkey
Azcarraga, Jos., c-Sp.....Lecen, California
Backman, Albert, a-So.....Santaquin
Bacon, Helen, ss., ho-J.....Logan
Bacon, R. R., ss.....Logan
Badger, Leon, ma-W.....Ogden
Baer, Vernon, ss.....Providence
Badgley, Kathleen, ho-S.....Murray
Bair, Mariner, ma-W.....Millville
Baird, Florence E., ss., ho-Sp.....Heber
Baker, Harold E., a-W.....Franklin, Idaho

Baker, Lorin M., ma-W.....Teton, Idaho
Bankhead, David, c-P.....Logan
Barber, Adaliene, g-F.....Logan
Barber, Ellen, ho-F.....Logan
Barber, Frances, g-F.....Logan
Barber, Geo. Percy, g-F.....Logan
Barber, Mary, ho-F.....Freedom, Wyo.
Barber, Seth Langton, c-S.....Logan
Barger, Solon Ray, g-F.....Logan
Barber, Walter Farrell, a-S.....Logan
Barber, Wynona, g-F.....Logan
Barlow, Fielding B., a-F.....Ogden
Barnard, Nellie, ss.....Garland
Barney, Archie F., a-So.....Kanosh
Barratt, Earl H., a-W.....American Fork
Barrett, C. Elmer, a-G.....Logan
Barrett, Odessa Heninger, s., g-F.....Logan
Barron, Ashmer Cecil, ma-F.....Logan
Barrus, C. Elmer, a-F.....Spring Conlee, Alta, Canada
Bastow, Leon, ae-F.....River Heights
Bastow, Mary, ho-Sp.....River Heights
Bateman, Geo. Q., a-F.....Sandy
Bateman, J. Robert., a-F.....Sandy
Bates, Geo. S., ss.....Monroe
Batt, Charles G., ma-Sp.....Logan
Baugh, Francis H., Jr., g-Sp.....Logan
Baugh, Geo. Thomas, c-P.....Logan
Baxter, Holly, ss.....Salt Lake City
Baxter, Maude, ss.....Salt Lake City
Baxter, Valton B., c-W.....Logan
Bearnson, Wm. L., c-So.....Kenilworth
Becraft, Raymond J., a-J.....Ogden
Bell, A. Mervill, ma-W.....Logan
Bello, Checter, a-W.....Hunter
Belnap, Hazel, ss.....Blackfoot, Idaho
Bennion, Kenneth, ma-W.....Benmore
Bennion, Lavon, ho-So.....Logan
Bennion, Lora, ho-F.....Logan
Bennion, Lucile, ho-Sp.....Salt Lake City
Bennion, Mary, ss., ho-J.....Salt Lake City
Bennion, Willard, a-So.....Salt Lake City
Benson, Frank, a-W.....Logan
Benson, John P., ss.....Newton
Bergeson, Abraham, ma-W.....Logan
Bergeson, Bernard, c-F.....Logan
Bergeson, Erven, ma-W.....Logan
Bergstrom, Mary, ho-J.....Cedar City
Bernston, Ariel J., c.F.....Logan
Berry, Hepsy, ho-Sp.....Springville
Bigelow, Rhoda, ho-Sp.....Provo
Birch, Byron, ae-S.....Coalville
Bistline, Joseph, ss.....Logan
Bjarnason, Lofter, ss.....Logan

Blackhurst, Brigham, g-Sp.....Smithfield
Blair, John L., ma-W.....Lewiston
Blair, Wallace, a-P.....Basalt, Idaho
Blanch, Wheatley, ma-W.....West Weber
Blauer, John F., a-W.....Lund, Idaho
Blickensderfer, J. Alma, ae-Sp.....Logan
Boberg, Elroy, a--So.....Draper
Bowman, Alice, g-P.....Logan
Bond, Wm. Joseph, ma-So.....Heber
Boswell, Stephen R., a-S.....Nephi
Boulton, Christie, ho-F.....Park City
Bowman, May, ss.....Ogden
Bowman, Pearl, ss.....Ogden
Bowen, David B., ma-J.....Spanish Fork
Bowen, Homer W., ma-W.....Tooele
Bowers, Ernest, a-S.....Nephi
Bown, Hyrum B., a-S.....Manti
Braithwaite, Frenderick Calvin, g-Sp.....Salt Lake City
Braley, Wayne M., a-P.....Blackfoot, Idaho
Brenner, Samuel, a-F.....Odessa, Russia
Brinton, Orissa, ho-F.....Springville
Brockbank, Alma P., a-W.....Murray
Brossard, Edgar B., a-G.....Logan
Brossard, Howard, ae-S.....Logan
Brossard, Laura Cowley, g-J.....Logan
Brown, Dahlia, ho-Sp.....Draper
Brown, Eva E., ss.....Ogden
Brown, Jessie, ho-Sp.....Salt Lake City
Brown, Wm. a-P.....Evanston, Wyo.
Browning, Harold, c-F.....Ogden
Browning, Miles Jones, c-F.....Ogden
Buchanan, Clarence, ma-W.....Venice
Buchanan, Elwood, ma-W.....Venice
Budge, Preston M., a-F.....Paris, Idaho
Budge, Scott Merrill, g-F.....Logan
Buell, Owen F., ma-F.....Heber
Bullock, Ellwood, ma-Sp.....Coalville
Burgon, Vera, ss.....Garland
Burke, Chas. Walter, a-F.....Hinckley
Burnett, Grover, a-S.....Challis, Idaho
Burnham, Caroline ss. ho-F.....Logan
Burnham, Edna, ho-F.....Brigham
Burris, Mae, c-P.....Logan
Burris, Morgan, ma-W.....Logan
Burroughs, Leona, ho-Sp.....Bridge, Idaho
Burt, Kenneth, a-S.....Springville
Butler, Eva, ho-F.....Sandy
Butt, Newbern I., a-G.....Lehi
Buttars, Ben C., ma-W.....Clarkston
Buttars, Irwa, ma-W.....Clarkston
Buttars, Thomas, ae-W.....Clarkston
Cahoon, George E., a-S.....Murray
Caine, Arthur Hugh, ss., a-S.....Logan

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Call, Archie, a-W.....Rigby, Idaho
Call, W. Willard, a-W.....Bountiful
Calvert, Alta, ho-S.....Ogden
Campbell, Fred Leslie, ma-Sp.....Fairview, Wyo.
Cannon, Clyde P., ae-S.....Logan
Cannon, Douglas, a-F.....Salt Lake City
Cannon, Gene, ho-J.....Salt Lake City
Cannon, Helen, g-S.....Salt Lake City
Cannon, Margureite, ss.....Logan
Cardon, Grace, ho-J.....Logan
Cardon, Louis Ballard, c-F.....Logan
Carlile, Martha, g-So.....Logan
Carlisle, Mary, ss.....Logan
Carlson, Bernice, ho-F.....Salt Lake City
Carlson, Conrad S., ss. g-S.....Logan
Carlson, Fred J., ma-W.....Oxford, Idaho
Carlson, Olga, ss.....Logan
Carlson, Raymond W., c-S.....Logan
Carlson, Vincent Stark, g-Sp.....Logan
Carlson, W. Rouiece, a-So.....Cardston, Alta, Canada
Carlston, Charlotte, ho-F.....Murray
Carrington, Albert C., g-S.....Logan
Carter, Ezra G., a-G.....Logan
Casto, Geo. D., ss.....Logan
Catmull, Alma, ma-W.....Rupert, Idaho
Chambers, Veda, ho-J.....Smithfield
Chatterton, Ruby, ho-Sp.....Franklin, Idaho
Chew, Viva, c-Sp.....Jensen
Chipman, Florence, ho-J.....American Fork
Christensen, Gladys, ho-S.....Logan
Christensen, Harry, a-F.....Salina
Christensen, Howard A., c-So.....Richfield
Christensen, Homer, ss.....Logan
Christensen, Leon P., ae-So.....Brigham
Christensen, Sophrona, ho-Sp.....Bear River City
Chugg, Lyman, ma-P.....Providence
Church, Rudodlph, a-So.....Panguitch
Churchman, Edith, ss.....Fish Haven, Idaho
Clark, Albert, ma-W.....Blackfoot, Idaho
Clark, Dean A., c-S.....Provo
Clark, Edward John, a-Sp.....Logan
Clark, Harold Gower, c-F.....Morgan
Clawson, Elmer Chas., g-F.....Providence
Clay, Mariza A., ss.....Salt Lake City
Clayton, Irving E., c-Sp.....Logan
Clifford, Lillie, ho-Sp.....Logan
Clinger, Kenneth, c-P.....Provo
Clinger, Vivian Z., c-P.....Provo
Clyde, Lynn, c-W.....Heber
Coffman, Dora, ho-Sp.....Springville
Coffman, Elmo, ae-F.....Springville
Collett, George, g-Sp.....Logan
Cook, Evelyn, ho-J.....Salt Lake City

Cook, Geo. Byron, a-F.....Willard
Cook, Harry F., a-So.....Fairfield
Cooper, Laura, ho-F.....Brigham
Condit, O. Blanche, c-C.....Logan
Connell, Jos. W., ma-J.....Parowan
Coray, Francis, a-S.....Ogden
Cottam, Moroni, a-F.....St. George
Cotter, Clarence Ed., ss.....Lehi
Cotter, Ralph, g-So.....Lehi
Cowley, Elmer, ma-W.....Venice
Cowley, Laura, ss.....Logan
Cowley, Moses F., c-So.....Logan
Gragun, Dresden J., a-J.....Smithfield
Crandall, Myron L., a-So.....Springville
Critchlow, Frances, ss.....Hyrum
Croft, Dora, ho-F.....Centerville
Croft, George Albert, a-So.....Ogden
Croft, Russel, ae-F.....Ogden
Crook, Margaret.....Heber
Crook, Reno, a-So.....Heber
Crook, Wm. Clark., a-S.....Heber
Crookston, Carl, a-P.....Logan
Crookston, Spencer C., ma-W.....Logan
Crosby, Hannah, ho-F.....St. George
Crosby, Maude, ho-F.....St. George
Cummings, Wade, c-W.....Heber
Curtis, Heber A., a-So.....Payson
Dahl, Earl W., ma-W.....West Point
Dahl, Guy E., ma-W.....West Point
Dahle, Jack, ma-W.....Logan
Daines, Carmen, ss.....Preston, Idaho
Daines, Clyde Jos., a-Sp.....Richmond
Dalley, Margureite, ss.....Preston, Idaho
Dalton, Eugene, a-So.....Springville
Davidson, Georgina, ho-J.....Logan
Davidson, Martha, ho-Sp.....Logan
Davidson, Myrtle, ho-Sp.....Logan
Davies, Hillman, g-F.....Fillmore
Day, Ezra, a-W.....Hunter
Dean, Lee, a-So.....Bingham Canyon
Dillin, J. C. F., ss.....Logan
Dinsmore, Florence, ho-S.....Ogden
Dixon, Kenneth Richmond, a-W.....Payson
Doutre, Wm., c-S.....Logan
Drury, Livinia, ss.....Lewiston
Dudley, Park, ma-F.....Logan
Duffin, Clarence, a-Sp.....Clearfield
Duffin, Cyril, a-Sp.....Provo
Duffin, Florence, ho-Sp.....Salt Lake City
Dundas, Roy, a-Sp.....Salt Lake City
Dunford, Carlos Leroy, ss. a-Sp.....Logan
Dunford, Geo. M., c-So.....Logan
Dunford, Grover C., c-Sp.....Logan

Dunford, Rachel, ho-F.....Salt Lake City
Dunford, Wm. Chauncey, a-Sp.....Salt Lake City
Dunn, Nadine, ho-F.....Brigham
Durtschi, Fred, ma-W.....Midway
Durtschi, Wm., a-W.....Midway
Dutson, Clinton, a-W.....Oak City, Utah
Earl, Homer Mark, c-F.....Idaho Falls, Idaho
Eccles, Emma S., g-F.....Logan
Eccles, Jessie S., g-J.....Logan
Eccles, Marie, ss.....Logan
Eccles, Spencer S., c-J.....Logan
Edlefsen, Edlef, ss., a-S.....Logan
Edmonds, Anna, ho-S.....Wales
Edmunds, Grace, ho-F.....Wales
Egbert, Delmar, a-W.....Logan
Ellis, Rebecca, c-F.....Logan
Ellsworth, Edmund Frank, c-So.....Rigby, Idaho
Ellsworth, John Orval, a-S.....Rexburg, Idaho
Emelle, Margureite, ss.....Logan
England, Della, ho-J.....Logan
England, Virginia, ho-Sp.....Logan
Ensign, Gladys, ss.....Ogden
Esplin, Alma, a-S.....Orderville
Esplin, Homer W., a-Sp.....Orderville
Esplin, James, a-F.....Orderville
Esplin, Evelyn, ss.....Orderville
Esplin, Kezia H., ss.....Orderville
Evans, Geo. A., a-So.....Malad, Idaho
Evans, Wm. Henry., a-S.....Springville
Everton, Edgar, g-S.....Logan
Ewing, Scott, g-Sp.....Smithfield
Fackrell, Leo, a-W.....Blackfoot, Idaho
Fackrell, Lewis, a-W.....Blackfoot, Idaho
Faddies, Robt. Karl, ma-P.....Lehi
Farnsworth, Esther, ho-Sp.....Logan
Farnsworth, Leona, ho-Sp.....Preston, Idaho
Farnsworth, Myrtle, ss.....Beaver
Faux, Goldie, ss., ho-S.....Moroni
Faux, Moroni, a-F.....Moroni
Faylor, Leola, g-Sp.....Bloomington, Idaho
Felsted, Ione, ho-So.....Garland
Fife, Arthur, ae-F.....Cedar City
Finlay, LeRoy, g-P.....Logan
Fishburn, Hope, ss., g-S.....Brigham
Fisher, Asael, ss., ma-J.....Meadow
Fister, Oretta, ho-Sp.....Logan
Fitzgerald, Berton M., ma-J.....Bingham Canyon
Ford, Jos. V., c-Sp.....Cedar City
Fordham, G. Albert, a-S.....Santa Clara
Forrer, Henry H., ma-W.....Midway
Foulger, Heber Chas., ss.....Ogden
Frank, Leslie K., c-Sp.....Salt Lake City
Freedman, David A., c-S.....Salt Lake City

Freeman, Ernest, a-F.....Brigham
Frei, Claud, a-F.....Santa Clara
Frew, Arnold, a-S.....Hooper
Frischknecht, Conrad, ss.....Manti
Fuhriman, Norman, ma-W.....Providence
Fullmer, Ralph, ae-F.....Gilbert, Arizona
Fullmer, Belle, ho-Sp.....Price
Fulner, Emil, a-W.....Hunter
Funk, LeRoy C., g-So.....Richmond
Gabrialson, Lyman, ma-W.....Logan
Gailey, Evelyn, ho-F.....Kaysville
Gamette, Vera, g-J.....Salt Lake City
Gardner, Louis, maW.....Richfield
Gardner, Robert, a-S.....Logan
Gardner, Vera, ho-Sp.....Lehi
Gardner, Wilbur, ma-W.....Ruby Valley, Nevada
Gardner, William Albert, ss.....Elberta
Garn, Breta, ho-J.....Centerville
Gilbert, Erma, ss.....Fairview, Idaho
Giles, Robert H., ss.....Morgan
Gilligan, Wm., a-So.....Salt Lake City
Gleason, Herbert Lester, a-Sp.....Kaysville
Gledhill, Viola, ho-S.....Ogden
Glenn, Irvin B., c-F.....Wellsville
Glessing, Harry C., ma-W.....Logan
Goldthorp, Harold Clifford, g-J.....Logan
Goodrich, Lucy, ss.....Vernal
Goodsell, Ruth, ho-Sp.....Newton
Goodwin, Phoebe, ss.....Cornish
Graff, Emil J., ss.....St. George
Greener, John Roy, a-So.....Hinckley
Greenhalgh, Truman, g-Sp.....Logan
Griffith, Albertie, ss.....Preston, Idaho
Grimaud, Virginia, ss, c-P.....Logan
Gubler, Helen Anna, ho-F.....Santa Clara
Gunn, Heber Vernell, ma-F.....Hoytsville
Gunnell, Melba, ho-Sp.....Wellsville
Hafen, Leland ss.....Santa Clara
Hagan, Harold R., ae-G.....Logan
Hale, Ethel, ss. ho-S.....Logan
Hales, Clarence, g-Sp.....Park City
Hales, Ethel, ss.....Park City
Halton, Harry J., a-So.....Salt Lake City
Halverson, Wm. Vernal, a-S.....Spanish Fork
Hammond, Diantha, g-F.....Providence
Hammond, Floyd A., ae-S.....Logan
Hansen, Ada, ss.....Tremonton
Hansen, Addison Victor, a-P.....Mackay, Idaho
Hansen, Clarence J., a-P.....Salt Lake City
Hansen, Edna, ho-So.....Salt Lake City
Hansen, Ernest J., a-W.....Cove
Hansen, George H., ae-F.....Richfield
Hansen, Mae, ho-Sp.....Hyrum

Hansen, Monta, ho-Sp.....Logan
Hansen, Parley Lavon, c-P.....Logan
Hansen, Reuben, a-S.....Hyrum
Hardy, Leon, c-Sp.....Logan
Harmer, Floss, ho-Sp.....Springville
Harmon, Irvin W., a-S.....St. George
Harmon, Lawrence B., a-So.....American Fork
Harrison, Milo Andrus, ss.....Richmond
Harper, Ernest Weston, c-P.....Oakley, Idaho
Harvey, Hugh, a-F.....Heber
Hatch, Aura C., a-W.....Franklin, Idaho
Hatch, Clyde A., a-P.....Woods Cross
Hatch, Jabe, ma-W.....Randolph
Hatch, J. Eastman, c-J.....Logan
Hatch, Parley, ss.....Deeth, Nevada
Hatch, Ray, ma-W.....Oxford, Idaho
Hatch, Sumner, a-So.....Heber
Hawkes, LeGrande, g-Sp.....Logan
Hawkes, Percy, c-W.....Logan
Haws, Arlington, ma-W.....Logan
Haws, Mabel, ho-Sp.....Logan
Hays, Luther, ma-W.....Yerrow, Mo.
Hayward, Ira N., g-F.....Paris, Idaho
Hayball, Edith, ho-J.....Logan
Heiner, Leland, ss.....Morgan
Heinrich, George, c-Sp.....Smithfield
Heldberg, Gustave O., a-Sp.....Logan
Heldberg, Richard E., a-Sp.....Logan
Helm, Seth Ward, c-F.....Logan
Hendricks, Victor B., a-So.....Lewiston
Hendricks, Walstein H., a-S.....Richmond
Herbert, Harry LeVaun, a-F.....Malad, Idaho
Hess, Alvin, ss.....Fielding
Hess, DeVerl, a-W.....Logan
Heyrend, Wilford F., ss, c-S.....Logan
Hicken, Elijah M., a-F.....Heber
Hicken, Elthoria, ho-F.....Heber
Hickman, Leonidas M., g-So.....Hyde Park
Hill, Gladys, ss.....Wellsville
Hillstrom, Mary K., ho-So.....Park City
Hillam, Leroy J., a-S.....Salt Lake City
Hilton, Wilford, ae-So.....Hinckley
Hinckley, Edwin C., a-Sp.....Ogden
Hinckley, Ellen R., ss.....Logan
Hipwell, Llewellyn, ma-W.....West Weber
Hirst, Chas. Merlin, ss.....Logan
Hirst, Lester, ss.....Logan
Hix, June, ho-Sp.....St. Anthony, Idaho
Hobusch, Wilhelmina, ho-J.....Salt Lake City
Hoggan, Edith, ss.....Rigby, Idaho
Holmes, Ellen, ho-F.....Raymond, Alta., Canada
Holmstead, Geo., a-So.....Lehi
Holt, Lawrence Edward, ma-W.....Hooper

Hopkins, Alvin L., ma-W.....Logan
Hopkins, Sybil, c-Sp.....Logan
Horne, J. Feramorz, a-Sp.....Salt Lake City
Howard, Edward Lorenzo, a-P.....Deweyville
Howard, Verna, ho-Sp.....Rockland, Idaho
Howells, Byron, c-J.....Oakley, Idaho
Howell, Ruth, ho-Sp.....Logan
Hudman, Howard, c-Sp.....Ogden
Hudman, Mabel, ss.....Ogden
Huffaker, Della Lynne, ho-F.....Murray
Huggins, Clara, ss.....Ogden
Hughes, Jonathan M., ma-So.....Farmington
Hughes, Louie, ss. ho-F.....Mendon
Hughes, Thomas, ma-So.....Farmington
Hulet, Hope, ss.....Peterson
Huntsman, Orson Lawrence, g-F.....Fillmore
Hurren, Clarence A., c-Sp.....Hyde Park
Hutchings, Verne, ho-Sp.....Beaver
Hyde, Lyle, ho-F.....Logan
Hyde, Rosella, ss.....Fairview, Idaho
Hyer, Beatrice, ho-Sp.....Lewiston
Hyer, Mar Dean, ho-Sp.....Lewiston
Isaacson, May, ss., ho-G.....Brigham
Ivins, H. Grant a-J.....Salt Lake City
Jackson, Dorrell P., a-J.....Lewiston
Jackson, Edna, ho-So.....Woods Cross
Jacobs, Lois, ss.....Salt Lake City
Jacobsen, Alma H., a-F.....Pine Valley
Jacques, Mabel, ss.....Logan
James, Hazel, ss.....Paradise
Jarvis, Orin W., a-J.....St. George
Jenkins, Dale, c-W.....Logan
Jensen, Clarence C., ss.....Logan
Jensen, C. Ervin, ma-W.....Idaho Falls, Idaho
Jenson, Irving, a-So.....Hyrum
Jensen, Joseph, a-P.....Emery
Jensen, Leo G., c-P.....Logan
Jensen, Mary, ss.....Brigham
Jensen, Pearl L., ss.....Hyrum
Jensen, Ronald, g-Sp.....Huntsville
Jensen, Stella Merrill, ho-Sp.....Logan
Jeppson, Evelyn, ho-So.....Geneva
Jerman, Reid, ae-So.....Santaquin
Johnson, Alex., ma-Sp.....Logan
Johnson, Arnold, a-W.....Logan
Johnson, Carl B., g-So.....Richmond
Johnson, Edith, ss.....Taft
Johnson, Floyd, a-S.....Preston, Idaho
Johnson, Francis Arnold, a-P.....Hooper
Johnson, Hyrum Ed., ss.....Pleasant Grove
Johnson, Martha, ho-F.....Pleasant Grove
Johnson, Raymond, ma-P.....Logan
Johnson, Ruth, ho-S.....Logan

Johnson, Sidney, ma-P.....Logan
Johnson, Theo. R., ss.....Grantsville
Jolley, Lafayette, a-So.....Washington
Jones, David Wm., Jr., a-S.....Malad, Idaho
Jones, Effie, ho-F.....Cedar City
Jones, Eliza Annie, ho-S, ss.....Newton
Jones, Eloise, ho-F.....Salt Lake City
Jones, Francis, ma-Sp.....Mt. Pleasant
Jones, Hilda, c-Sp.....Logan
Jones, Julia P., ss.....Neeley, Idaho
Jones, May M., ss.....Wellsville
Jonsson, Carl W., g-S.....Logan
Jonsson, Reuben, a-So.....Logan
Jordan, Leonard, ae-W.....Enterprise, Oregon
Josephson, Jos. A., c-Sp.....Brigham
Judd, Lyle P., a-So.....Salt Lake City
Kapple, Chas. Dixon, g-So.....Payson
Karren, Leah Fay, ho-Sp.....Lewiston
Kearl, Chase, a-Sp.....Laketown
Keller, Angus J., ma-W.....Logan
Keller, Charles, ma-W.....Logan
Keller, Bessie, c-S.....Logan
Keller, Claudius D., a-P.....Logan
Kent, Edward C., a-F.....Salt Lake City
Kerr, Gerald M., ss.,c-G.....Logan
Kerr, Vie, ho-F.....Wellsville
Kidgell, Fred, Jr., c-P.....Logan
Kidgell, Lily, ho-F.....Logan
Killpack, McLloyd, a-Sp.....Ferron
King, Eliza L., ss.....Logan
Kingsford, Helga, ho-Sp.....Franklin, Idaho
Kirby, Frank J., ma-F.....Sugar City, Idaho
Kirkbride, Jas. W., g-Sp.....Smithfield
Kirkham, Arno, a-So.....Lehi
Kirkham, Ebenezer John, a-So.....Lehi
Kirkham, Zelda, ho-Sp.....Lehi
Kloepfer, Rachel, ss., ho-Sp.....Logan
Knudson, J. Chester, c-Sp.....Brigham
Kremer, Clara M., ho-Sp.....Logan
Kunz, Adeline, g-F.....Bern, Idaho
Kunz, Lottie H., ss., g-G.....Logan
Kunz, Orson J., ss.....Logan
Lamb, Curtis A., a-F.....Coalville
Lamph, David D., a-Sp.....Cleveland
Lamph, John Ivor, a-W.....Cleveland
Larsen, Andrew Olof, a-S.....Ferron
Larsen, Blanche, ho-Sp.....Logan
Larsen, Ernest O., ae-F.....Santaquin
Larsen, Estella, ho-So.....Logan
Larsen, Evan C., a-W.....Ephraim
Larsen, Hazel, ho-Sp.....Logan
Larsen, Lola, ho-Sp.....Hyrum
Larsen, Naomi, ho-F.....Logan

Larsen, Ola, ss.....Smithfield
Larsen, Roldo, ma-P.....Oxford, Idaho
Larsen, Ruth, ss.....Garland
Larsen, Victor, a-P.....Logan
Leatham, Robt. P., g-J.....Wellsville
Lee, Eli Fosgren, c-S., ss.....Brigham
Leek, David, ae-W.....Tremonton
Leishman, Hortense, ho-Sp.....Wellsville
Lewis, Grover E., a-J.....Malad, Idadho
Lindblad, Victor L., a-F.....Logan
Lindquist, Ariel, a-So.....Logan
Lindquist, Eva Amelia, ho-F.....Salt Lake City
Lindsay, Elizabeth F., ss.....Provo
Lindford, Wm. B., ma-F.....Logan
Lofgreen, Rae, ho-F.....Huntsville
Loosle, Reuben O., a-W.....Clarkston
Lovendale, Laura Elizabeth, ss., c-Sp.....Salt Lake City
Lowe, Don Carlos, ma-W.....Franklin, Idaho
Lowe, Erma, ho-Sp.....Franklin, Idaho
Lowe, John Virgil, ma-W.....Franklin, Idaho
Lowe, Joe, a-P.....Salt Lake City
Lowry, Evalyn, g-Sp.....Ferron
Lowry, Ivy, ss., ho-Sp.....Ferron
Luke, Melvin, ss., ae-S.....Junction
Lund, Martell W., a-So.....Pleasant Grove
Lund, Wallace E., ma-F.....Brigham
Lund, Yeppa, g-S.....Logan
Lyle, Wesley, ae-Sp.....Idaho Falls, Idaho
McAlister, Irvine Lorenzo, ae-J.....Logan
McAlister, Wallace S., ss., a-Sp.....Logan
McAlister, Ward R., a-S.....Logan
Macbeth, Glenn, a-So.....Ogden
McBride, Claud D., a-Sp.....Fairview, Arizona
McBride, Cora G., ho-So.....American Fork
McBride, Wm. Wallace, c-F.....Logan
McCarrey, May, g-Sp.....Logan
McCulloch, Ella, c-F.....Logan
McCulloch, Lawrence, a-F.....Logan
McDonald, Storm, ae-S.....Heber
McEwen, Ella, ss.....Trenton
McFarland, Alta, ho-Sp.....Hyrum
McFarland, Ray, a-W.....West Weber
MacFarlane, Edith, ho-F.....Park City
McKay, Arwell L., a-Sp.....Salt Lake City
McKay, Jed, a-F.....Ogden
McMullin, Thos. Heber, a-Sp.....Heber
McMurdie, Marie, ho-Sp.....Paradise
Madsen, Alphonzo Barton, a-P.....Boneta
Madsen, Orson, a-S.....Logan
Madsen, Roy Mathew, a-G.....Gunnison
Madsen, Stanford, ae-S.....Manti
Mahoney, Rolla, c-F.....Heber
Manning, Leroy, a-W.....Garland

Marshall, Fred W., a-P.....Logan
Martineau, Claire, ho-So.....Logan
Mathisen, Wm. Milton, g-So.....Monepelier
Maughan, Armenia, ho-Sp.....Logan
Maughan, Ada, ss.....Logan
Maughan, Edna, ss.....Wellsville
Maughan, Edward, a-Sp.....River Heights
Maughan, Jos. Howard, a-S.....Preston, Idaho
Maughan, Russell L., a-So.....River Heights
Mecham, J. Arthur, ss.....Logan
Meeks, Heber, a-So.....Kanab
Memmott, Cleon, a-F.....Nephi
Merrill, Don C., g-So.....Richmond
Merrill, Harrison Reuben, g-S.....Preston, Idaho
Merrill, Lola, ho-J.....Logan
Merrill, Madison W., a-F.....Preston, Idaho
Merrill, Margaret, c-Sp.....Preston, Idaho
Merrill, Ortencia H., ho-F.....Richmond
Merrill, Vera S., ho-J.....Richmond
Merrill, Wilford J., c-F.....Richmond
Midgarden, Gunhild, ss.....Logan
Mikkelsen, Hans, g-Sp.....Hyrum
Miles, Anna, ss.....Paradise
Miller, Hyrum J., ma-W.....Farmington
Miller, Minnie, ss.....Salt Lake City
Mitchell, Geo. A., ss.....Parowan
Mitchell, Leland Richard, a-So.....American Fork
Mitton, Ada, g-Sp.....Logan
Mohr, Anna, ho-S.....Logan
Molyneux, Clyde, ma-W.....Burley, Idaho
Monroe, Vere S., ma-W.....Lava Hot Springs, Idaho
Monson, Horald, c-F.....Richmond
Monson, Leroy F., c-J.....Logan
Monson, Wm. A., c-J.....Franklin, Idaho
Morgan, E. J., ss.....Levan
Morgan, Samuel, a-Spl.....Logan
Morley, Leo, ae-F.....Monroe
Morrell, Della, g-G.....Logan
Morrell, Thos. Heber, a-So.....Logan
Morris, Arthur J., a-F.....Sandy
Moulton, Deyce, ho-Sp.....Heber
Muir, Ethel, ho-Sp.....Logan
Muir, Jean, ho-Sp.....Logan
Mulliner, Dellas, c-W.....Idaho Falls, Idaho
Munk, Andria, ss.....Benson
Munoz, Rafael, a-Sp.....La Paz, South America
Munro, Florence, ss.....Logan
Munro, Mamie, ss.....Logan
Murdock, Cassie, ss.....Minersville
Murdock, Grant, a-P.....Duchesne
Murdock, Wallace S., a-S.....Heber
Murray, David Parker, a-S.....Wellsville
Murray, Elva, g-So.....Wellsville

Nebeker, A. Hulme, ae-F.....Logan
Nebeker, Elizabeth, ss.....Willard
Nebeker, Irvine, a-So.....Richfield
Nebeker, Lucy, ss.....Brigham
Nebeker, Myrtle, ho-Sp.....Richfield
Nelson, Agnes, ho-Sp.....Logan
Nelson, Andrew H., ss.....Morgan
Nelson, Enoch, ss., g-S.....Mink Creek, Idaho
Nelson, Freda, ss.....Brigham
Nelson, Irvin Theodore, a-S.....Morgan
Nelson, Katherine L., ss.....Preston, Idaho
Nelson, Lillian, ho-W.....Ferron
Nelson, Lloyd, ma-P.....Ferron
Nelson, Lowry, a-S.....Ferron
Nelson, Myra, c-F.....Logan
Nelson, Olif H., ae-G.....Logan
Nelson, Peter, g-F.....Mink Creek, Idaho
Nelson, Robert S., Jr., ae-W.....Long Beach, California
Nelson, Roy, a-W.....Randolph
Nelson, Stanley C., a-Sp.....Ferron
Nelson, Zersia Mae, ss.....Preston, Idaho
Nibley, Edna, g-Sp.....Logan
Nibley, Florence, g-Sp.....Logan
Nichols, Bervard, a-S.....Brigham
Nichols, DeLore, a-Sp.....Brigham
Nielsen, Beatrice, ho-Sp.....Logan
Nielsen, Elizabeth, ho-Sp.....Logan
Nielsen, Glenn Z., ma-Sp.....Axtell
Nielsen, Gwen, ho-F.....Preston, Idaho
Nielsen, Jennie, ho-Sp.....Hyrum
Nielsen, Joseph, c-S.....Hyde Park
Nielsen, Pearl C., ss., ho-G.....Logan
Nisson, Clarence W., c-J.....Logan
Norman, LeGrande, ma-W.....Logan
Norman, Wm., ma-W.....Logan
Nuffer, Louis F., a-So.....Logan
Nuttall, Leonard G., ae-G.....Manchester, England
Obray, Isabella, ho-Sp.....Paradise
Oldroyd, Lorin T., a-S.....Glenwood
Oldroyd, May, ho-Sp.....Glenwood
Olson, Alma, g-F.....Richmond
Olson, Alma Richards, ma-W.....River Heights
Olson, Ernest A., ma-W.....River Heights
Olson, Evalyn, ho-Sp.....Brigham
Olson, Eyner B., c-Sp.....Logan
Olson, Harold R., g-F.....Brigham
Olson, Harry John, a-Sp.....Millville
Olson, Jennie, ho-Sp.....Salt Lake City
Olson, Leo, a-W.....Lewiston
Olson, Raymond L., c-F.....Logan
Olson, Sarah, ho-Sp.....Logan
Ormond, Henry, ma-W.....Logan
Orton, Ida, ho-Sp.....Parowan

Osmond, Chas. Anson, g-S.....Logan
Osmond, Effie, ho-Sp.....Logan
Osmond, Ruby, ho-F.....Logan
Ostler, Della, ho-Sp.....Salt Lake City
Ostler, Frank, a-F.....Nephi
Ostlund, Lillian, ho-S.....Logan
Otte, Jos. Einar, a-J.....Logan
Owen, A. L., ss.....Iona, Idaho
Owen, Cyril B., a-Sp.....Logan
Owen, Grettle B., ho-So.....Logan
Owen, Luella, ho-F.....Logan
Owens, Stephen Lester, a-S.....Willard
Owens, Wm. W., a-S.....Willard
Page, Wm. Russell, ma-F.....Hooper
Palmer, Asael E., a-J.....Raymond, Alta. Canada
Palmer, Joseph H., ss.....Bountiful
Parker, Adelia, ho-So.....Paris, Idaho
Parkes, Wm. S., ma-So.....Nephi
Parkinson, Glenn S., g-So.....Logan
Parkinson, Karma, ho-F.....Logan
Parkinson, Maretta, ho-Sp.....Wellsville
Parkinson, Roland H., a-Sp.....Richmond
Parkinson, Willis, c-Sp.....Hyrum
Parry, Brigham E., c-Sp.....Logan
Parry, J. Waldo, c-Sp.....Elsinore
Parry, Martha P., ss.....Logan
Parry, Stanley H., g-So.....Cedar City
Parsons, Ruby E., ho-J.....Salt Lake City
Peacock, Byron C., ma-W.....Emery
Pearson, Essie N., c-Sp.....Logan
Pedersen, Olga M., ho-F.....Taylorville
Pederson, Olof Wilford, ma-W.....Logan
Pendleton, John H., ss.....Richmond
Perkins, Martin Lorenzo, a-So.....Dayton, Idaho
Peterson, Anthon, a-J.....Logan
Peterson, Carl W., a-F.....Salt Lake City
Peterson, Carolyn, ss.....Logan
Peterson, David, a-W.....Logan
Peterson, Dean F., ss.....Hinckley
Peterson, Geo. D., a-W.....Provo
Peterson, Harold, g-J.....Bloomington, Idaho
Peterson, Ivy, ss.....Logan
Peterson, Kenneth, a-P.....Hyrum
Peterson, Laurene, ss., g-So.....Hyrum
Peterson, LaVoyle, ho-So.....Logan
Peterson, Lillie Esther, ss.....Smithfield
Peterson, Martin B., a-S.....Riverton
Peterson, Maurine, ss.....Logan
Peterson, Merrill, ss.....Sandy
Peterson, Nettie, ss.....Logan
Peterson, Quayle, a-S.....Ephraim
Peterson, Thera L., ho-Sp.....Hyrum
Peterson, Violet A., ss, ho-Sp.....Smithfield

Peterson, Wm. O., g-F.....Logan
Phillips, Jane, g-F.....Lehi
Pinnock, Mildred, ss.....Salt Lake City
Pittman, Don W., a-G.....Logan
Pixton, Robert Carter, a-So.....Murray
Pond, Lewis V., g-Sp.....Lewiston
Pond, Mary, ho-Sp.....Lewiston
Pond, Preston, ss.....Lewiston
Pope, John C., a-S.....Ogden
Porter, Alberta S., ho-So.....Logan
Porter, Ina, ho-So.....Franklin, Idaho
Poulsen, Addie, ho-Sp.....Logan
Poulsen, Leah, ho-Sp.....Grace, Idaho
Poulsen, Oleta, ho-F.....Brigham
Poulter, Carl L., ma-W.....Logan
Poulter, Wm. Irvin, a-F.....Ogden
Powell, Morrell, a-J.....Coalville
Pratt, Amy, ss.....Logan
Preston, Claytor, g-F.....Logan
Price, Charles, a-F.....Beaver
Price, Emily, ho-Sp.....Beaver
Price, Lew Mar, a-So.....Provo
Prisbrey, Grant, a-F.....St. George
Quinney, Glenn T., g-Sp.....Logan
Quinney, Percy, c-Sp.....Logan
Quinney, Seymour Jos., c-S.....Logan
Quayle, May, ss.....Logan
Rainey, Teola, ss.....Freedom, Wyoming
Rallison, Ireta, ss.....Preston, Idaho
Ralph, Albert L., ma-W.....Brigham
Rallison, Robert L., a-W.....Preston, Idaho
Ralphs, Jesse C., ss.....Ferron
Ralph, Leonard T., c-J.....Logan
Ralph, Woodruff, ma-W.....Brigham
Rampton, Royal, ma-W.....Layton
Ramsperger, Herman Carl, ss., a-F.....Ogden
Rankin, Johnell, ss.....Pleasant Grove
Rankin, Lorena, ss.....Pleasant Grove
Rasmussen, Peter, ma-W.....Logan
Rasmussen, Reta, ho-Sp.....Logan
Read, Margaret, ho-Sp.....Smithfield
Reed, Joseph, a-P.....Salt Lake City
Reeder, Moses, g-G.....Hyde Park
Reese, Chas. L., ae-W.....Benson
Rees, Frank J., a-F.....Coalville
Reese, Geo. W., a-W.....Benson
Rees, Jesse Lavern, a-F.....Benson
Reese, Llewellyn, a-W.....Benson
Reese, William G., a-J.....King
Reese, Wm. H., c-W.....Benson
Reid, Mae, ho-Sp.....Preston, Idaho
Rencher, John U., ma-So.....Preston, Idaho
Rencher, Una H., ho-Sp.....Preston, Idaho

Rich, Geo. Q., Jr., ma-P.....Logan
Rich, Irene, ho-F.....Blackfoot, Idaho
Rich, Juanita, ss.....Blackfoot, Idaho
Richards, Alta, ho-So.....Logan
Richards, Bert L., ss., g-G.....Logan
Richards, Carrie, ho-J.....Logan
Richards, Ezra Foss, Jr., g-J.....Farmington
Richards, Morel A., a-F.....Pleasant Grove
Richards, Ruby, ho-F.....Salt Lake City
Richards, Wm. Denton, c-F.....Carey, Idaho
Richardson, Ivie, ho-G.....Preston, Idaho
Richardson, Jacob Z., g-S, ss.....Preston, Idaho
Ricks, Edna, g-F.....Rexburg, Idaho
Ricks, Howard, ma-W.....Benson
Ricks, Irene, ho-Sp.....River Heights
Ricks, Joel Ed., ss.....Rexburg, Idaho
Ricks, Julia, ho-Sp.....Logan
Ricks, Willard Reed, c-Sp.....Benson
Rideout, Evelyn, ss.....Draper
Rigby, Elmer C., a-S.....Newton
Riley, Mervyn, ss., g-Sp.....Logan
Rinderknect, Anna, ho-Sp.....Providence
Riter, Levi R., a-F.....Logan
Riter, Samuel Waldo, g-S.....Logan
Robinson, Eunice, ho-J.....Salt Lake City
Robinson, Jane A., ss.....Salt Lake City
Robinson, Jesse S., a-G.....Paragoonah
Robinson, R. Clarence, g-Sp.....Logan
Robinson, Verna, ho-Sp.....Richmond
Robinson, Wayne, a-W.....Fillmore
Rogers, Dalles, g-F.....Kanosh
Rogers, Lucile, ho-F.....Preston, Idaho
Ronnow, Jas. Leon, g-F.....Las Vegas, Nevada
Rose, Loraine, ho-Sp.....Hyrum
Rose, Mae, ho-Sp.....Hyrum
Rosengreen, Enid, ho-F.....Logan
Rosengreen, Ruth, ho-J.....Logan
Roskelly, Wm. Leonard, g-So.....Smithfield
Rouse, John Elmer, a-S.....Springville
Rowberry, Agnes, ss.....Grantsville
Rowberry, Lillian, ho-Sp.....Grantsville
Rowe, Louis, ae-F.....Salt Lake City
Rowland, Thos., ma-W.....Logan
Ruff, Enid, ho-So.....Logan
Russell, John E., c-So.....Logan
Rust, Woodruff, ae-Sp.....Kanab
Ruud, Edna, c-Sp.....Logan
Salisbury, Leroy G., ma-W.....Logan
Salmon, J. Warren, a-F.....Coalville
Salzner, Odetta, ho-F.....Salt Lake City
Savage, Isabelle, ss., ho-Sp.....Hyrum
Saxer, Beatrice, g-Sp.....Logan
Scholes, Stanley F., ss.....Logan

Scholes, Walter A., a-W.....Rigby, Idaho
Schow, Frederick S., c-Sp.....Richmond
Schow, Randall, a-F.....Lehi
Scudder, Martha, ss.....Ogden
Secrist, Jesse A., c-Sp.....Arbon, Idaho
Sevy, Pearl, ho-J.....Richfield
Sharp, Ivor, g-J.....Vernon
Sharp, Leo B., a-J.....Salt Lake City
Shaw, Bessie, ss.....Richmond
Shaw, Dorothy, ho-F.....Ogden
Shaw, Harry A., a-W.....Paradise
Shaw, Minnie T., ss.....Paradise
Shipley, Elizabeth, ho-Sp.....Paradise
Shipley, Mabel, ss.....Paradise
Shipley, Wm. C., g-J.....Paradise
Shirazi, Mirza Ali, a-Sp.....Shirazo, Persia
Shumway, Isadore, ss.....Clarkston
Shurtliff, Esther, ss.....Ogden
Simmons, Harold, g-F.....Payson
Sjostrom, Jos. Emil, c-S.....Logan
Skaanchy, Verna, ho-Sp.....Logan
Slaugh, Forrest, a-So.....Logan
Smith, Albert Edw., a-F.....Manassa, Colorado
Smith, Arthur B., a-F.....Logan
Smith, Clarence E., ss., g-G.....Riverside
Smith, Douglas, a-F.....Heber
Smith, Edwin S., ss.....Logan
Smith, Elias J., ma-W.....Logan
Smith, Ellen, ss.....Logan
Smith, Ethel S., ss.....Logan
Smith, Golden, a-W.....Logan
Smith, Heber Lawrence, a-S.....Logan
Smith, Ione, c-Sp.....Logan
Smith, Irene, ho-F.....Logan
Smith, Jas. Carlos, ae-W.....Centerville
Smith, John E., a-F.....Salt Lake City
Smith, J. Fish, a-S.....Snowflake, Arizona
Smith, Laura Violate, c-Sp.....Salt Lake City
Smith, Leone, ss.....Logan
Smith, Leslie Albert, g-G.....Logan
Smith, Lillie A., ss.....Logan
Smith, Marian L., ho-So.....Logan
Smith, Olena W., ho-F.....Logan
Smith, Orita, ho-So.....Logan
Smith, Ralph, ae-F.....Logan
Smith, Ray, a-Sp.....Logan
Smith, Ruby, ss.....Salt Lake City
Smith, Vida D., c-P.....Logan
Smith, Willis, a-S.....Ogden
Smith, Willis A., ss., c-S.....Preston, Idaho
Snow, Cedric R., a-Sp.....Salt Lake City
Snow, Joseph, ss.....Kingston
Snyder, Margaret, ho-S.....Salt Lake City

Solomon, Arthur, a-F.....Salt Lake City
Solomon, Leah, ho-F.....Salt Lake City
Sorensen, Chas. J., a-G.....Logan
Sorensen, Emma B., ss., ho-So.....Mendon
Sorensen, Lettie Alice, ho-Sp.....Hyrum
Spafford, Jessie, ho-So.....Springville
Spande, Afton, ho-Sp.....Logan
Spande, Sybil E., ho-F.....Logan
Speirs, John D., ss.....Monroe
Spencer, Bessie, ho-Sp.....Kanab
Spencer, Chester V., c-P.....Turlock, California
Spendlove, Etta H., ho-Sp.....Garfield
Spendlove, Jas. J., ae-S.....Garfield
Standford, Jos.Sedley, a-So.....Carey, Idaho
Stanford, Vermile L., ho-Sp.....Carey, Idaho
Starley, Ava, ho-Sp.....Fillmore
Starley, Wm. J., a-S.....Fillmore
Stewart, Agnes, ss.....Tooele
Stewart, Arch J., a-Sp.....Wisdom, Montana
Stewart, George, ss., a-G.....Tooele
Stewart, Gordon, ss.....Logan
Stewart, Jessie, ho-Sp.....Logan
Stewart, Thelma, ho-F.....Wisdom, Montana
Stock, Reuben G., ae-P.....Fish Haven, Idaho
Stock, Sidney R., g-F.....Fish Haven, Idaho
Stoddard, Alexander Lester, c-Sp.....LaGrande, Oregon
Stoddard, Carl B., ss.....Lewiston
Stoddard, Chas., c-W.....Downey, Idaho
Stoddard, Chas. I., ss.....Richmond
Stoddard, Eliza, ss.....Richmond
Stoddard, George Earl, c-J.....LaGrande, Oregon
Stone, Blanche, ho-F.....Ogden
Stookey, Bernice, ho-Sp.....Clover
Stott, Chas. Orval, a-S.....Meadow
Stratford, Clyde, g-So.....Pocatello, Idaho
Sutton, Wm. Hugh, c-F.....Paris, Idaho
Taggart, Harriet Josephine, ho-S.....Ogden
Tanner, Byron, a-S.....Whitney, Idaho
Tanner, Jos., A-W.....Whitney, Idaho
Tarbet, Agnes, ho-Sp.....Logan
Tarbet, Florence, ss.....Logan
Taylor, Anna K., ho-S.....Provo
Taylor, LaVerna, ss.....New Harmony
Taylor, Lee Raymond, g-S.....Payson
Tebbs, Wm. C., a-F.....Panguitch
Telford, John Lafayette, ma-W.....Lewiston
Thackeray, W. Mark, a-S.....Croyden
Thain, Geo. Wendell, ae-F.....Logan
Thain, Marvin, ma-W.....Logan
Thain, Mary Aldyth, g-F, ss.....Logan
Thatcher, Hannah, ho-F.....Thatcher, Idaho
Thatcher, Helen, ho-F.....Logan
Thatcher, Lettie, ss.....Logan

Thatcher, Leora, ho-So.....Logan
Thatcher, Nathan D., Jr., a-S.....Thatcher, Idaho
Thatcher, Patience, ho-Sp.....Logan
Thayne, Wm. James, a-So.....Yost
Theurer, Blanche, ss.....Providence
Thomas, Albert, c-S.....Samaria, Idaho
Thomas, Alvin J., g-F.....Samaria, Idaho
Thomas, Carrie, c-Sp.....Logan
Thomas, Kate, ho-Sp.....Malad, Idaho
Thomas, LaRue, ho-So.....Logan
Thompson, Evelyn, ss.....Richmond
Thompson, Lillian, ho-F.....Scipio
Thorn, Eliza, ho-F.....Springville
Thorne, Gerald, a-F.....Vernal
Thornton, Jas. W., ss., a-So.....Logan
Thorpe, Marie, ho-Sp.....Logan
Thorpe, Oneata, ss., c-Sp.....Logan
Thurman, David John, ss.....Ogden
Titensor, F. Earl, g-F.....Cove
Tracy, Emily Erma, ho-P.....Ogden
Transtrum, Whitney, a-P.....St. Charles, Idaho
Tuckfield, Maud, ho-F.....Salt Lake City
Turman, Dale, a-F.....Hamer, Idaho
Turner, Evelyn, ss.....Ogden
Turner, Lee, c-Sp.....Logan
Turner, Wm., a-P.....Salt Lake City
Turpin, Harold W., a-Sp.....Dohne, South Africa
Twitchell, Alvin G., g-J.....Beaver
Underwood, Elizabeth, g-Sp.....Logan
Vance, Victor Vernon, a-P.....Dickey, Idaho
Van Leuven, Perry, ma-S.....Springville
Van Wagoner, Earl, c-F.....Provo
Voorhees, Glenn Lavar, a-S.....Manti
Voorhees, Hillard L., a-F.....Manti
Wadsworth, Gertrude, ss.....Ogden
Wagstaff, Leon, ae-W.....American Fork
Walker, Basil, a-F.....Pleasant Grove
Walker, Vance D., ss., g-Sp.....Mendon
Wall, Hanna, ss.....Lyman, Wyoming
Wall, Luella, ss.....Venice
Wallace, Edith, ho-F.....Salt Lake City
Walton, Frederick W., a-W.....Centerville
Ward, Geo. A., c-So.....Willard
Watkins, Leland, c-P.....Logan
Watson, Gertrude, ss.....Ogden
Webster, John U., a-Sp.....Cedar City
Webster, Kenneth S., c-Sp.....Salt Lake City
West, Clement W., ae-Sp.....Dee, Oregon
West, Thelma, ho-Sp.....Dee, Oregon
White, Azmon, ae-F.....Beaver
White, Hortense, ho-S.....Beaver
White, James Owen, c-So.....Willard
Whitear, Frank L., a-F.....Petersen

Whitehead, Margarette, ho-Sp.....Franklin, Idaho
Whitehead, Sarah, ho-Sp.....Franklin, Idaho
Wight, Lillian, ho-So.....Brigham
Wight, Zillah, ho-F.....Brigham
Willden, Wm., g-F.....Beaver
Willey, Archer, g-S.....Castle Dale
Willey, Fanny I., ho-Sp.....Castle Dale
Willey, Maud, ss.....Mendon
Williams, Belle, ho-Sp.....Hyrum
Williams, Carl L., a-W .....Blackfoot, Idaho
Williams, Jean, g-F.....Provo
Willie, Allen L., a-J, ss.....Mendon
Willie, Leon, a-S.....Mendon
Willmore, Naaman, ma-W.....Logan
Wilson, Alma L., a-S.....Hooper
Wilson, Jas. T., a-W.....Midway
Wilson, Leroy A., a-S.....Sandy
Wilson, Vanez, ae-Sp.....River Heights
Wilson, Walter R., ss.....Murray
Wimmer, Lee, ma-W.....Payson
Winder, Edwin K., a-S.....Salt Lake City
Windley, Vern, ae-P.....St. Charles, Idaho
Winget, Glenn, a-J.....Monroe
Witney, Sarah, ho-Sp.....Springville
Wittwer, John H., a-Sp.....Santa Clara
Wittwer, Melvin, a-F.....Santa Clara
Woodbury, Max W., ss.....Ogden
Woodhouse, Jesse M., ae-So.....Idaho Falls, Idaho
Woodside, Clyde, c-Sp.....Logan
Woodside, Jean, ho-G.....Logan
Woodward, Grant, a-W.....Franklin, Idaho
Woolley, Ethel, ho-So.....Grantsville
Woolley, John F., a-S, ss.....Grantsville
Woolley, Olive, ho-So.....Ogden
Worley, Margaret, g-Sp.....Logan
Wright, Clarence L., ss.....Bennington, Idaho
Wright, Cleeo D., a-P.....Salt Lake City
Wright, Nona, c-Sp.....Bennington, Idaho
Wright, J. W., a-S.....Hinckley
Wyatt, Caroline, ho-So.....Wellsville
Yonk, Ardell, ss.....Mendon
Young, Freda A., ho-So.....Park City
Young, Mary, ss.....Salt Lake City
Young, Nelson, ss., a-F.....Salt Lake City
Zbinden, Rosalina, c-P.....Millville
Zollinger, Alvin, ma-W.....Providence

SUMMARY OF ATTENDANCE

	Agriculture (Men)	Agr. Engnr. (Men)	Commerce (Men)	Commerce (Women)	Gen'l Science (Men)	Gen'l Science (Women)	Home Econ. (Women)	Mech. Arts (Men)	TOTAL	GRAND TOTAL
COLLEGE:										
Graduates	9	3	1	1	3	2	4	....	23	
Seniors	56	8	12	1	11	2	17	3	110	
Juniors	14	1	8	....	8	2	22	4	59	
Sophomores	43	4	9	....	12	2	28	5	103	
Freshmen	53	14	21	2	22	11	60	6	189	
Specials	35	4	18	6	16	9	62	6	156	
	210	34	69	10	72	28	193	24	....	640
Practical	23	2	13	2	1	1	1	7	50	
Specials	2	....	7	3	2	1	40	2	57	
Winter Course	41	7	9	1	....	....	2	68	128	
	66	9	29	6	3	2	43	77	....	235

Summer School 1915	208
Correspondence Department	415
	1498
Less names repeated	45
Net Total	1,453

FARMERS' CONVENTIONS AND HOUSEKEEPERS' CONFERENCES

Conventions:	
Logan	326
Cedar City	304
Monroe	279
Housekeepers' Conferences:	
Logan	216
Cedar City	290
Monroe	231
Net Total	1,646

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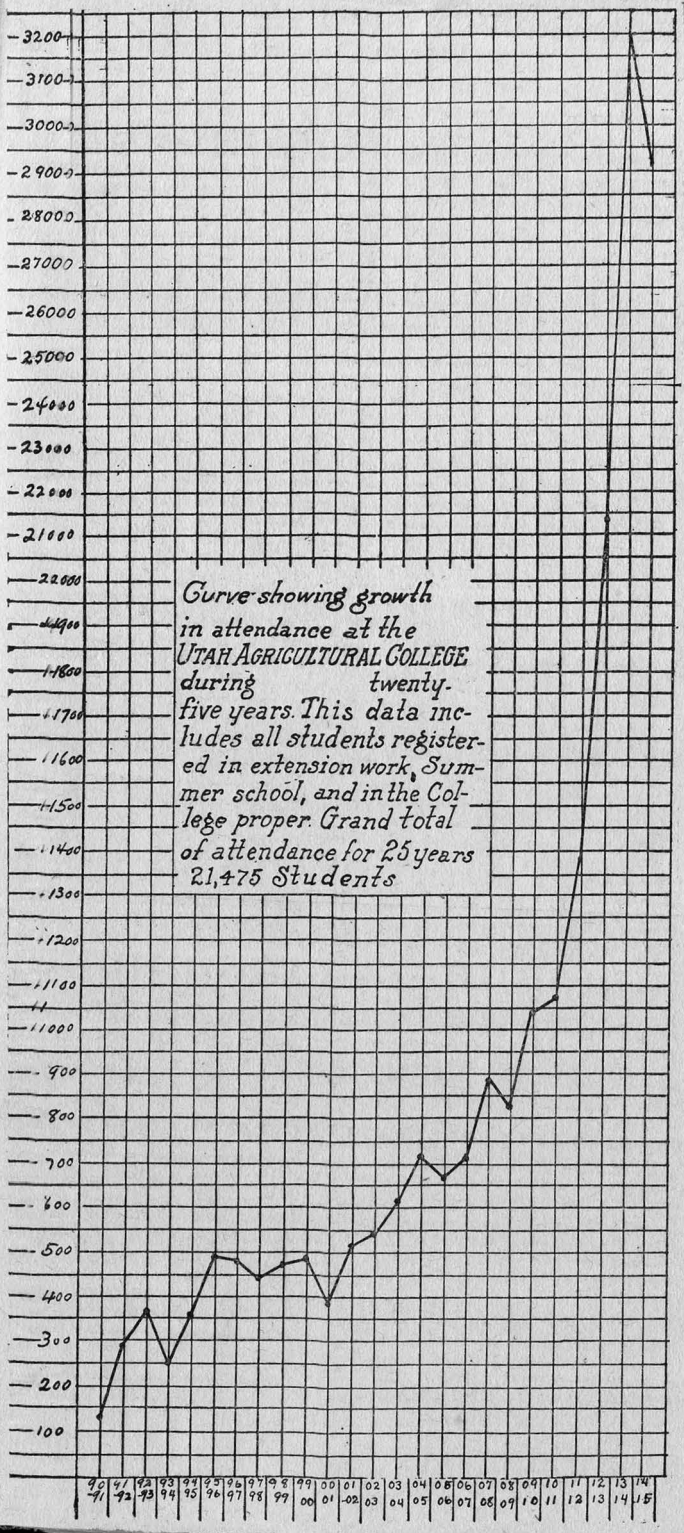
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Curve showing growth in attendance at the UTAH AGRICULTURAL COLLEGE during twenty-five years. This data includes all students registered in extension work, Summer school, and in the College proper. Grand total of attendance for 25 years 21,475 Students

¶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.