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CATALOGUE

OF THE

AGRICULTURAL COLLEGE

OF UTAH

FOR

1911-1912

With List of Students for 1910-1911

LOGAN, UTAH

Published by the College,
July, 1911
COLLEGE CALENDAR—1911-1912.*

FIRST TERM.

1911.

September 19, Tuesday: Entrance examinations. Registration of former students, and of new students, who are admitted on certificates.

September 20, Wednesday: Classes organized.

November 29, Wednesday: Thanksgiving recess begins. (Classes will be held the preceding Monday.)

December 5, Tuesday: Instruction resumed.

December 22, Friday noon: Christmas recess begins.

1912.

January 9, Tuesday: Instruction resumed.

January 27, Saturday: First term ends.

SECOND TERM.

January 30, Tuesday: Second term begins.

February 12, Monday: Lincoln’s Birthday.


April 15, Monday: Arbor Day.

May 26, Sunday: Baccalaureate sermon.

May 27, Monday: Class Day.

May 28, Tuesday: Commencement. Alumni Banquet and Ball.

June 4, Tuesday: Summer vacation begins.

*For the dates of the different winter courses and of the Summer School see the special circulars.
BOARD OF TRUSTEES.

LORENZO N. STOHL ...................................................... Brigham
THOMAS SMART .......................................................... Logan
JOHN Q. ADAMS ......................................................... Logan
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John Dern, J. W. N. Whitecotton and Angus T. Wright.

Committee on Home Economics.
Mrs. A. W. McCune, John Dern and J. M. Peterson.

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Committee on Experiment Station.

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Committee on Livestock.
John C. Sharp, Thomas Smart and Mathonihah Thomas.

Extension Work.
Mathonihah Thomas, John Q. Adams and J. A. Hyde.

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Thomas Smart, John Q. Adams and John Dern.

Finance.

Legislation.

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

THE COLLEGE FACULTY.

(Arranged in Groups in the Order of Seniority of Appointment.)

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

WILLARD SAMUEL LANGTON, A. M.,*
Professor of Mathematics.

LEWIS ALFORD MERRILL, B. S.,
DIRECTOR, EXTENSION DIVISION.

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

GEORGE WASHINGTON THATCHER,
Professor of Music.

GEORGE THOMAS, A. M., Ph. D.,
DIRECTOR, SCHOOL OF COMMERCE.
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.

*On leave of absence.
AGRICULTURAL COLLEGE OF UTAH.

JOSEPH WILLIAM JENSEN, S. B.,
Professor of Irrigation Engineering.

JAMES CHRISTIAN HOGENSON, M. S. A.,
AGRONOMIST, EXTENSION DIVISION.

CHRISTIAN LARSEN, A. M.,
Professor of English.

JOHN THOMAS CAINE, Jr., B. S.
REGISTRAR, SECRETARY OF THE FACULTY AND BOARD OF TRUSTEES.

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

ROBERT STEWART, Ph. D.,
Professor of Chemistry.

JOHN THOMAS CAINE, III., M. S. A.,
Professor of Animal Husbandry.

FRANKLIN LORENZO WEST, Ph. D.,
Professor of Physics.

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

ELLEN ALDEN HUNTINGTON, A. M.,
DIRECTOR, SCHOOL OF HOME ECONOMICS.
Professor of Home Economics.

LOCHLIN W. CAFFEY, Captain, 15th Infantry, U. S. A.,
Professor of Military Science and Tactics.

WILBERT S. DREW, A. M.,
DIRECTOR, SCHOOL OF MECHANIC ARTS.
Professor of Farm Mechanics.

LEON D. BATCHELOR, M. S.,
Professor of Horticulture.

ELMER GEORGE PETERSON, A. M., Ph. D.,
Professor of Physiology and Bacteriology.
AGRICULTURAL COLLEGE OF UTAH.

FRANK STEWART HARRIS, Ph. D.,
Professor of Agronomy.

C. NEPHI JENSEN, M. S. A.,
Professor of Botany and Plant Pathology.

Professor of Agricultural Engineering.

BLANCHE COOPER, B. S.,
Associate Professor of Domestic Science.

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

CALVIN FLETCHER, B. Pd.,
Associate Professor of Art.

RHODA BOWEN COOK,
Assistant Professor of Domestic Arts.

N. ALVIN PEDERSEN, A. B.,
Assistant Professor of English.

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CHARLES WALTER PORTER, A. M.,
Assistant Professor of Chemistry.

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Assistant Professor of Economics.

HARRISON C. DALE, A. M.,
Assistant Professor of History.

GEORGE M. TURPIN, B. S.,
Assistant Professor of Poultry Husbandry.

W. ERNEST CARROL, M. S.,
Assistant Professor of Animal Husbandry.

PARLEY ERASTUS PETERSON, A. B.,
Assistant Professor of Accounting.
George C. Jensen, A. B.,
Assistant Professor of Modern Languages.

August J. Hansen, B. S.,
Assistant Professor of Mechanic Arts

Jonathan Sockwell Powell,
Assistant Professor of Art.

Edward Parley Pulley, B. S.,
Instructor in Mechanical Engineering.

Sara Huntsman, B. S.,
Instructor in English.

Aaron Newey,
Instructor in Forging.

Charlotte Kyle, A. M.,
Instructor in English.

John L. Coburn, B. S.,
Financial Secretary.

John D. Van Wagoner,
President's Private Secretary.

Louie E. Linnartz,
Instructor in Music.

W. L. Walker, B. S.,
Instructor in Mathematics.

Howard P. Madsen,
Instructor in Carpentry.

David Hughes,
Instructor in Woodcarving.

Jean Crookston,
Instructor in Domestic Arts.
AGRICULTURAL COLLEGE OF UTAH.

ERNEST P. HOFF, B. S.,
Instructor in Zoology.

C. T. HIRST, B. S.,
Instructor in Chemistry.

KATHERINE CLARK, A. B.,
Instructor in English.

AMELIA MANNING, B. S.,
Instructor in English.

FLORENCE MAY BROWN, A. B.,
Instructor in Domestic Science.

CANUTE PETERSON, B. S.,
Instructor in Stenography and Typewriting.

EDWARD H. WALTERS, M. S.*, 
Instructor in Chemistry.

WILLIAM SPICKER,
Instructor in Violin.

ALBERT E. BOWMAN, B. S.,
Instructor in Agronomy.

GEORGE L. ZUNDEL, B. S.,
Instructor in Botany.

D. EARL ROBINSON, B. S.,
Instructor in History.

Coral Kerr, B. S.,
Instructor in Domestic Arts.

WALLACE MACFARLANE, B. S.,
Instructor in Mathematics.

WILLIAM L. QUAYLE, B. S.,
Instructor in Chemistry.

*On leave of absence.
LUTHER M. WINSOR, B. S.,
Instructor in Irrigation Extension Division.

ZELLA SMART,
Instructor in English.

WILLIAM THORNLEY,
Instructor in Horseshoeing.

Instructor in Physical Education for Women.

Instructor in Home Economics, Extension Division.

HATTIE SMITH,
Assistant in Library.

S. L. BINGHAM,
Assistant in Dairying.

BESSIE DAY,
Assistant in Library.

L. A. STEVENS,
Assistant in Accounting.

CHARLES BATT,
Superintendent of Buildings and Grounds.

RASMUS OLUF LARSEN,
Head Janitor.
EXPERIMENT STATION STAFF.

E. D. BALL,
Director and Entomologist.

L. A. MERRILL,
Agronomist in Charge of Arid Farms.

H. J. FREDERICK,
Veterinarian.

JOHN T. CAINE, III,
Animal Husbandman.

ROBERT STEWART,
Chemist.

S. H. GOODWIN,
Economic Ornithologist,

E. G. TITUS,
Entomologist.

L. D. BATCHELOR,
Horticulturist.

G. M. TURPIN,
Poultryman.

F. S. HARRIS,
Agronomist.

F. L. WEST,
Meteorologist.

C. N. JENSEN,
Plant Pathologist.

J. E. GREAVES,
Associate Chemist.

ERNEST CARROLL,
Associate Animal Husbandman.
AGRICULTURAL COLLEGE OF UTAH.

C. T. HIRST,
Assistant Chemist.

E. P. HOFF,
Assistant Entomologist.

A. B. BALLANTYNE,
Assistant Horticulturist.

V. A. SADLER,
Assistant Entomologist.

A. E. BOWMAN,
Assistant Agronomist.

L. M. WINSOR,
Assistant Agronomist and Irrigation Engineer.

F. FROERER,
Assistant Animal Husbandman.

WILLARD GARDNER,
Clerk and Librarian.

Co-operative Investigators with U. S. Department of Agriculture.

W. W. MCLAUGHLIN,
Irrigation Engineer.

C. F. BROWN,
Drainage Engineer.

P. V. CARDON,
Assistant Agronomist.

R. A. HART,
Assistant Drainage Engineer.
THE COLLEGE COUNCIL.

THE PRESIDENT, Chairman.
THE REGISTRAR, ex officio.

PROFESSOR WILLARD SAMUEL LANGTON.
PROFESSOR LEWIS ALFORD MERRILL.
PROFESSOR ELMER DARWIN BALL.
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ASSISTANT PROFESSOR CHARLES WALTER PORTER.
ASSISTANT PROFESSOR GEORGE B. HENDRICKS.
ASSISTANT PROFESSOR HARRISON C. DALE.
ASSISTANT PROFESSOR GEORGE M. TURPIN.
ASSISTANT PROFESSOR W. ERNEST CARROLL.
ASSISTANT PROFESSOR PARLEY ERASTUS PETERSON.
ASSISTANT PROFESSOR GEORGE C. JENSEN.
ASSISTANT PROFESSOR AUGUST J. HANSEN.
ASSISTANT PROFESSOR JONATHAN SOCKWELL POWELL.
STANDING COMMITTEES.
1911-12.

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

2. High School.—Professors N. A. Pedersen, P. E. Peterson, Mrs. Clark.
3. Graduation.—Professors Arnold, West, Batchelor, Cooper.
4. College Publications.—Professors Larsen, Harris, Arnold, Miss Kyle, Miss Manning.
5. Attendance and Scholarship.—Professors Thomas, William Peterson, Caine, Jr., Greaves, Hendricks, Miss Smith, Miss Crookston, Miss Smart.
6. Student Affairs.—Professors Caine, Jr., Frederick, Miss Smith, Carroll, Miss Huntsman, Miss Kerr.
7. Athletics.—Professors Teetzel, Ball, Caine, III, Caffey, Coburn.
8. Publicity.—Professors E. G. Peterson, Merrill, Harris, Huntington.
12. Student Employment.—Professors Stewart, Frederick, Caine, III, Cooper, Hansen, Mr. Newey, Mr. Pulley.
13. Student Body Organization.—Professors Ball, Thomas, Huntington.
15. Summer School.—Professors Thomas, Larsen, West, Porter, C. N. Jensen.
AGRICULTURAL COLLEGE OF UTAH.

General Information.

The Agricultural College of Utah is a part of the public school system of the State. It comprises six different schools:—the School of Agriculture, the School of Home Economics, the School of Agricultural Engineering, the School of Commerce, the School of General Science, and the School of Mechanic Arts; also the Agricultural Experiment Station, which, while not providing directly for instructional work, is an important department of the institution. The following pages contain an account of the organization, purpose, and equipment of the College, together with the character and extent of the work offered.

HISTORY.

The Agricultural College of Utah was founded in 1888, when, on March 8th, the Legislative Assembly accepted the terms of the national law passed by Congress on July 2d, 1862. Under this Act of Congress, and the Enabling Act providing for the admission of Utah to the Union, 200,000 acres 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 Morrill
Act of 1890 the State receives $25,000 annually for instruction in the Agricultural College. Under the Adams Act of 1906 the State will ultimately receive an additional $15,000 annually for research work by the Experiment Station. Under the Nelson Act of 1907, the Morrill Act was so amended that the State will receive an increase of $5,000 annually, until the annual amount so received reaches $50,000 per year.

These various federal appropriations, together with the annual income from the land-grant fund, represents the income received from the general government, but as 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 carry on the work of instruction, etc. These needs have been generously met in the past by the various 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, on various occasions, appropriated sufficient funds to erect and maintain in order all the buildings described in a later section, besides providing largely for instruction.

By recent legislative action the so-called “Mill Tax” has placed the College on a more satisfactory basis. Under this act, the College receives annually 28.34 per cent of 28 per cent of 4.5 mills of the total valuation of the State, thereby assuring a more stable appropriation from year to year. The Extension appropriation has been raised to $10,000 and the total amount for the use of the Experiment Station is increased to $15,000 a year. The act providing State aid for High Schools will in a few years so increase the number of efficient High Schools and consequently the number of High School graduates, that the College attendance will unquestionably show a marked increase.

In September, 1890, the institution was first opened for the admission of students, degree courses being offered in Agriculture, Domestic Arts, Civil Engineering, Mechanic Arts, and Commerce;
a Preparatory Course and short courses in Agriculture and Engineering were also given. Since that time many improvements have been made in the courses; some have been abandoned, several special high school courses in Commerce, Mechanic Arts, and Home Economics have been added, the standard of the College work has been raised, and 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. By the Act of 1911 the work in Agricultural Engineering has been restored.

GOVERNMENT.

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

The Board of Trustees consists of thirteen members, appointed by the Governor with the approval of the State Senate. 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 and to employ the instructing force and other officers of the College.

Between sessions, the power of the trustees rests with an executive committee, whose actions are referred to the Board for their approval. Another committee is concerned with the funds and accounts of the College, while a third has general charge of all buildings and repairs throughout the institution. In addition to these, there are committees, largely advisory, having to do with the employment and service of College officers, and with the work of particular departments.
THE DIRECTORS' COUNCIL consists of the President, the heads of the schools and the Director of Extension Work. This body has immediate supervision of the instruction and discipline in all the various schools. It constitutes a permanent executive and administrative committee of the College Council and Faculty.

THE COLLEGE COUNCIL consists of the President of the College, the Registrar, and the professors, the associate professors, the assistant professors, and the librarian. All important questions of discipline and policy are decided by this body.

THE COLLEGE FACULTY includes the President, the professors, the associate professors, the assistant professors, the librarian, the instructors, and the assistants. As an administrative body it is concerned with the ordinary questions of methods and discipline and with various matters pertaining to the general welfare of the College. Through 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 various phases of college life, such as the enrollment and progress of students in the various schools, and the general direction of the work there carried on. The conduct of the student in his college home and his regularity in performing college duties; the publications of the College and the students; the interests of the students on the athletic field, in the amusement halls, and in their various organizations,—all these things are within the province of appropriate committees, consisting largely of members of the council.

THE EXPERIMENT STATION STAFF consists of the President of the College, the Director of the Station, and the chiefs, with their assistants, of the departments of Agronomy, Horticulture, Animal Husbandry and Dairying, Entomology, Chemistry, Irrigation, Poultry Culture, and Veterinary Science. This body is employed in the investigation of problems peculiar to agriculture in this portion of the country, the purpose being to improve con-
ditions and results. It is further responsible for the circulation, through private correspondence and regular bulletins, of such information as is of practical value to the farming communities.

The Students. The College is maintained at public expense for 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, and the administrative bodies of the College are fully empowered to secure these results.

POLICY.

It is the policy of the Agricultural College of Utah, in accordance with the spirit of the law under which it is organized, to provide a liberal, thorough, and practical education. The two extremes in education, empiricism and the purely theoretical, are avoided, the practical being based upon, and united with the thoroughly scientific. In addition to the practical work of the different courses, students are thoroughly trained in the related subjects of science, and in mathematics, history, English, and modern languages. While the importance of practical training is emphasized, the disciplinary value of education is kept constantly in view. The object is to inculcate habits of industry and thrift, of accuracy and reliability, and to foster all that makes for right living and good citizenship.

Under this general policy, the special purpose of the Agricultural College of Utah is to be of service in the upbuilding of the State of Utah, and the Great West to which it belongs. The instruction in Agriculture, therefore, deals with the special prob-
lems relating to the conquest of the great areas of unoccupied lands, the proper use of the water supply, the kinds of crop or live stock produced, which in Utah may be made pre-eminent; in Mechanic Arts, the most promising trades are pointed out, and they are taught in a manner to meet the needs of the State; in Commerce the present commercial conditions of the State are studied and the principles and methods to be applied in the commercial growth of Utah are given thorough investigation. The women who study Domestic Science are taught house-keeping and right living 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.

LOCATION, BUILDINGS AND GROUNDS.

The Agricultural College of Utah is in Logan, the county seat of Cache County, which is one of the most prosperous agricultural counties in the State. The city has a population of about 7,000; it is noted for its freedom from vice, is quiet, orderly, clean and generally attractive, with neat homes, good, substantial public buildings, electric lights, a sewer system, and a water system. Cement pavements and an excellent electric street-car line, both recently completed, extend from the Station to the College. The citizens are thrifty and progressive. The College is beautifully situated on a broad hill overlooking the city, one mile east of Main street, and commands a view of the entire valley and of its surrounding mountain ranges. The beauty of the location is perhaps unsurpassed by that of any other college in the country. A few hundred yards to the south is the Logan River. A mile to the east is a magnificent mountain range and a picturesque canyon. In other directions are towns and farms covering the green surface of Cache Valley, and distinctly visible through the clear atmosphere. The valley is a
fertile, slightly uneven plain, 4,500 feet above sea level, about
twelve by sixty miles in dimensions, almost entirely under cultiva-
tion and completely surrounded by the Wasatch Mountains. It is
one of the most attractive and healthful valleys in the western re-
gion.

On this site the College now has nearly twenty buildings, all
modern, all well lighted and well heated, and all carefully planned
and constructed to meet the purpose for which each was intended.

The Main Building, of brick and stone, is 360 feet long, 200
feet deep in the central part, and four stories high. It contains
the large auditorium, seating about 1,500; the administrative of-
fices; the library; the gymnasium; and all the various class rooms
and laboratories except those of Mechanic Arts and Home Eco-
nomics.

The Woman's Building, formerly the Dormitory, is a large
four-story brick building fifty by eighty feet, situated at three
minutes' distance from the Main Building on the north-west cor-
ner of the campus. Cement walks connect it with the other school
buildings and with Main Street. It is one of the largest and best
equipped structures devoted entirely to Domestic Science and Arts
in the whole Inter-Mountain Region. It has automatic elevator
service from the locker room and laundry in the basement to the
spacious rooms on the fourth floor. On the first floor there is a
large lecture room used for a class room and also for public lect-
ures, a small class room and a kitchen-laboratory equipped with
gas for individual work, a library, and an office. On the second
floor is the second kitchen-laboratory, equipped with electricity for
individual work, a small kitchen, a dining room, and a chemistry
and a research laboratory. The third floor is devoted entirely to
the Domestic Arts and contains the office, millinery room, sewing,
dressmaking and fitting rooms with complete equipment. The
fourth floor contains a rest room, class room, and a large room
used for museum material and gymnasium work.

The Experiment Station Building, a two-story brick struc-
ture 45 feet long and 35 feet wide, contains the offices of the sta-
tion staff, a reading room, and a dark room for photographic work.

The Mechanic Arts Building is a one-story brick structure, with the exception of the central part, which is two stories high. It has a ground floor area of 16,600 square feet, divided into four groups of rooms, viz.: wood working department, machine shop, forging, and draughting rooms. On the second floor are the Mechanic Arts Museum, blue-printing room, room for painting and staining, and a class room.

Through the munificent gift of the Honorable Thomas Smart, a member of the Board of Trustees, and the generous appropriation of the State Legislature, provision has been made for a new gymnasium on the College grounds. This gymnasium is now under construction and will be ready for use in the course of the coming year. The gymnasium will be adequately equipped with apparatus for conducting elementary and advanced courses in physical education. Besides large and well ventilated rooms for class exercises and for games, the gymnasium will also contain separate rooms for girls' classes and boys' classes, apparatus for taking physical measurements, locker rooms, offices, shower baths, a swimming tank, etc.

That portion of the Main Building now used for gymnasium will be turned over to the Art Department to provide a larger and better lighted studio.

Two Conservatories, each 90 by 25 feet, divided into various compartments for the purpose of regulating the temperature, are used to supplement class work in botany, floriculture and horticulture.

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

A year ago a commodious, well-heated stock-judging pavilion was erected. Here the students in animal industry will carry
on their work instead of being obliged, as in the past, to remain outdoors in all sorts of weather.

The Barns. *The horse barn*, a wooden structure, 60 feet square, contains model sanitary stables for horses, storage divisions for hay, grain and seed, and rooms for carriages and wagons, farm implements, and machinery; also the farm foreman's room, and repair shop. A ten-horsepower electric motor furnishes power for grain threshing, feed grinding, and fodder shredding. *The cattle barn*, 106 feet by 104 feet, is provided with the most modern equipment throughout, including iron stalls, cement floors and mangers, etc. There are accommodations for seventy-five head of cattle; also hospital rooms, feed rooms, a milk room, a root cellar, and storage room for hay and grain. *The sheep barn*, 94 feet by 41 feet, has accommodations for seventy-five sheep, and storage room for feed. *The hog barn* is a wooden structure, 65 feet by 31 feet. It contains two feed rooms, a cook room, an abattoir, and twelve pens, each of which is provided with an outside run. This building accommodates sixty mature animals.

The Poultry Building covers 230 feet by 25 feet, with yards 100 feet wide on each side. The building is divided into two sections:—first, the brooder section, with a capacity for about one thousand chicks; second, the experimental section, with a capacity for over five hundred hens. This section is divided into thirty-two pens; it is shut off from the public and used for conducting experiments on the different questions of poultry culture. The building is heated by a hot water system. In the front part are an office, a feed and weigh room, a store room, and a sleeping apartment.

*A modern Incubator Cellar* has recently been provided which is well equipped with the latest incubators of different makes, egg distributing and turning tables, pedigree hatching trays, hygrometers, thermometers, acetylene and electric egg testers, and such chemical and other apparatus as is required for thorough work in the investigation of incubator problems.
The land occupied by the College and its several departments embraces about 116 acres. Of this, thirty-five acres constitute the Campus, laid out with flower-beds, broad stretches of lawn, and wide drives and walks leading to the College buildings. During the summer the conservatory contributes its hardy plants for lawn decoration.

Immediately east of the Main Building are the parade grounds and athletic field, of about ten acres. The farms comprise 71 acres; the orchards and the small fruit and vegetable gardens, 10 acres. All parts of the College grounds are used by the professors in charge of instruction in agriculture and horticulture and by the Experiment Station staff for the purpose of practical illustration in their respective departments, and for experimentation.

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**EQUIPMENT.**

**AGRONOMY.** The Department of Agronomy is provided with a large collection of agricultural plants, seeds and soils, representing the main crops and types of soils of the inter-mountain region. The College farms are equipped with the best and latest farming implements and machinery for carrying on work scientifically and successfully. They are divided, for illustrative and experimental purposes, into numerous plats on which many varieties of farm crops are grown and upon which important experiments are carried on.

The Soil Physics Laboratory has a good supply of apparatus for accurate and up-to-date work, including balances, microscopes, drying ovens, hot-water baths, compacting machines, and apparatus for determining the mechanical analysis of soils.

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

Agricultural Engineering. The restoration of this branch of study to the Agricultural College has necessitated the equipment of a laboratory specially adapted to this class of work. The equipment consists of several gasoline engines of from two to fifteen horse-power and a horizontal steam engine of six horse-power. The testing laboratory contains a Riehle Bros. hundred thousand pounds testing machine and also a cement testing machine of the same make. The laboratory further contains transits, levels, chains, tapes, leveling rods, range poles, and other apparatus used by students in the work in surveying, irrigation, drainage, and road construction. The drawing rooms and shops of the Mechanical Arts Department with their complete equipment are available for students in Agricultural Engineering. All together, the facilities are such as to offer unparalleled opportunities for men entering this new and very promising line of work.

Animal Husbandry. For this work general use is made of the College barns, live-stock, dairy, etc. During the last year the College has added to the equipment by the purchase, in Europe and in America, of some fine pure-bred horses, cattle and sheep. The large, new, well-lighted live-stock pavilion, one of the finest in the West, has made it possible to do all work indoors under the best conditions.

The model poultry house with its equipment, and the new incubator cellar, afford special facilities for illustrative and practical work with poultry. Several strains of pure-bred chickens, ducks, and geese are kept for experimental purposes.

Dairying. The creamery occupies a floor space of about three thousand square feet, divided into seven rooms for the various processes of dairy work, and equipped with all the apparatus necessary for the processes of butter and cheese-making and milk-testing. It is run on a commercial basis, milk being purchased from the farmers living near Logan. Ample facilities are pro-
vided for illustrating the handling of milk for the retail trade. The department has an eight-horsepower boiler and a six-horsepower engine, and model cold storage rooms for butter and cheese.

The Botanical Laboratory has a good supply of apparatus for systematic and microscopic work. The herbarium contains 3,000 mounted and named specimens, and there are 700 samples of seeds for use in economic botany. The general equipment includes compound microscopes, Bausch and Lomb dissecting microscopes, microtome, and everything else necessary for successful botanical work. The orchard and the small fruit and vegetable gardens are used in connection with the work in botany and horticulture for illustrative purposes.

The Veterinary Laboratory is supplied with all the more important surgical instruments, and other material found in a well equipped hospital. A modern operating table, an operating room, box stalls for patients, the necessary medicines, are all at hand. In this laboratory the agricultural students have practice and observation in the treatment of animals.

The Department of Home Economics occupies an entire building, consisting of a basement and four stories connected by automatic elevator service. In the basement a locker room is provided for wraps. The two kitchen laboratories on the first and second floors have individual work tables equipped with new utensils. One laboratory is provided with individual gas stoves, the other with individual electric stoves. A small kitchen and dining room are newly and completely equipped with modern furnishings. A chemical laboratory and an experimental laboratory are also found on the second floor. The department has various charts and cabinets of food materials showing composition and process of manufacture. The laundry, which is fitted with stationary tubs, a drier, ironing tables and electric irons, is in the basement. The Department of Domestic Arts occupies the third floor and is completely furnished with the latest improved machines, tables, chairs, tracing boards, electric irons, Wardrobes, drawers and cupboards for the finished and unfinished work. The
museum material consists of exhibits which show the process of manufacturing wool, silk, cotton, and linen. A large room on the fourth floor is used for a gymnasium in connection with which shower and tub baths are available. A rest room is provided, and the library on the first floor offers opportunity for reading and study.

The Commercial Department is equipped for thorough and efficient work in modern business courses. The entire third floor of the front of the Main Building, covering a floor area of 7,225 square feet, is occupied by the department. Each room is specially designed and furnished for the work to be conducted in it. Practice is given in the methods of modern banking, wholesale, retail, and commission trade, and freight, insurance and real estate offices. The room for typewriting contains a full complement of standard machines. The rooms for stenography and penmanship are conveniently furnished for efficient work.

The Mechanic Arts are taught by means of a large and carefully selected equipment for practical work in shop and laboratory. The wood shops are supplied with seventy benches with full sets of tools. The wood-working machinery includes one pattern-maker’s lathe, universal saw-table, jig and band saws, planer, shaper and sander. There are the usual clamps, vises and other special tools required for a shop of this kind. For the work in forging there are provided twenty-four single and eight double forges, each with a complete equipment of anvil and tools. In addition there is one furnace, one belted power hammer, drills, swages and leveling table, with a large assortment of special tools. The equipment for foundry work includes cupola, brass-furnace, core oven, flasks, patterns, ladles, crucibles and tools for flask and floor moulding. The outfit used in carriage building comprises, in addition to the required benches, a supply of carriage maker’s tools, including hub boring machine, boxing machine, tenoning machine, felloe borer, tire bender, etc. In the machine shop there are six engine lathes, three universal milling machines, a universal grinder, a universal tool
and cutter grinder, two speed lathes, a radial drill press, two crank shapers, two planers, a power hack saw and a double emery grinder. Each machine has its regular equipment of tools and attachments. There is a good equipment of small tools such as twist drills, taps, reamers, mandrels, milling cutters, files, calipers, and special tools, many of which have been made by students. All machinery, including blast and exhaust fans for foundry and forge shops, is electrically driven.

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

The Zoological Laboratory is equipped with water and gas, and has for use in laboratory work the most improved modern instruments, many enlarged models, a papier mache manikin, articulated and disarticulated human skeletons, skeletons from each group of vertebrates, collections of mounted birds, mammals, reptiles and fishes, and alcoholic material in many groups. The department has exhibition and systematic collections of insects, and the private collections and libraries of the professors are available to students taking work in the department.

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

The Physical Laboratory occupies a suite of rooms on the second floor. The equipment is fairly complete, consisting of all the necessary pieces of apparatus for class demonstration; a set
of apparatus for elementary laboratory work, sufficient for ten students working on the same experiment; and all pieces required for an experimental course in mechanics, heat, electricity and light.

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

The Art Rooms are supplied with plain and adjustable tables for the elementary work in drawing and design, also with easels and model stand for the studio. Individual lockers for students and cases for the materials of the department are supplied. Casts from the old masters in sculpture, reproductions of great paintings, examples of Japanese art, still-life models, drawing boards, and draperies are included in the equipment. The department has access to the art library which is well supplied with helpful works on design, home art, sculpture, painting, and architecture.

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

The library now contains about 20,000 bound volumes and a large number of pamphlets. The books are classified by the Dewey decimal system, and there is a complete dictionary card
catalogue of the library. The shelf list is also on cards, and forms a classed catalogue for official use.

The library is a depository for United States public documents, and receives practically all documents printed by the government. There are ninety-eight 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 AGRICULTURAL EXPERIMENT STATION.

The Agricultural Experiment Station is a department of the College, supported by Congressional appropriations, supplemented by the receipts from the sales of farm products, and by such appropriations as the State Legislature makes from time to time to carry out special lines of work, or for the establishment and support of sub-stations. The station was created for the special purpose of discovering new truths that may be applied in agriculture, and of making new applications of well-established laws. It is, therefore, essentially a department devoted to research; and as such, it does the most advanced work of the College.

The Experiment Station is not, in the ordinary sense, an institution where model farming is carried on. It has a much higher purpose. The practices of the farmer are subjected to scientific tests, in order to determine why one is bad and the other good. Acting on the suggestions thus obtained, new lines of investigation are begun, with the hope that truths of great value to the farmer may be discovered.

The Station has for its present object the study of the underlying laws of irrigation. On the farm, in the orchards, gardens, and barns, experiments are going on that, in time, will lead to
the establishment of an art of irrigation based on laws developed by scientific methods. Experiments for the improvement of alfalfa for hay and seed, of sugar beets in sugar content and seed production, and of potatoes and beans in yield and in quality, are being undertaken. Special investigations for the purpose of encouraging the horticultural, dairy, and poultry industries, and of reclaiming the alkali and arid lands of the state are also in progress.

By an act of the State Legislature of 1903, six experimental farms have been established in different parts of the state, for the purpose of demonstrating the possibilities of dry or arid farming on the soils of Utah. The work on all these sub-stations, including also the Experimental farm near St. George, in Washington County, is placed under the direction of the Experiment Station. In co-operation with the Department of Agriculture, the Station is carrying on extensive investigations in irrigation, drainage, the breeding of arid farm grains, and the improvement of arid farm methods.

A report and four or five bulletins containing the results of the experiments of the stations are published annually for free distribution among the people of the state.

The Experiment Station has a high educational value. Nearly all the members of the Station Staff are also members of the College Faculty, and 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 Experiment Station offers for advanced work in several branches of science are of great importance. The scientific method and spirit characterize all the operations of the Station, and none can fail to be benefited by a study of the experiments that go on at all times of the year.

The Station Staff are always glad to assist the advanced students of the institution in any investigation they may wish to undertake.
ADMISSION AND GRADUATION.

Conditions for Admission. Graduates of the district schools are admitted without examination to the regular three-year High School Course and to the Special High School Courses. Persons of mature years not graduated from the district schools, will also be admitted to the technical work of the latter courses. Classes in the elementary branches are maintained in order that these students may make up the regular entrance requirements.

Those who have completed the regular High School Course are admitted without examination to the four-year College courses in Agriculture, Home Economics, Agricultural Engineering, Commerce, and General Science. Students may transfer from one regular course to another by making up all the technical work of the course to which they transfer. No one is allowed to substitute technical work of one course for that of another except by permission of the Faculty.

Other students are admitted to any of the courses leading to degrees upon presenting certificates of accredited high schools, or upon satisfactory examination in the required subjects. Students entering from other schools may be allowed to substitute for some of the required subjects.

Beginning with 1911-12 the College will require three years of high school work for admission to the four-year college courses. Students entering the college courses from other schools in that year must show credits for three years work in some reputable high school or must present eleven units of high school work in accordance with the new State High School Schedule. Students who began their high school work as first year students at the U. A. C. in 1909-10, took second-year work in 1910-11, and will take third-year work in 1911-12, becoming freshmen in 1912-13.

Candidates for admission to advanced standing may be required to pass satisfactory examinations in all the work of the preceding years, or to present satisfactory evidence of having completed an equivalent of such work in some other school or college.
SPECIAL STUDENTS. Persons of mature years, who for satisfactory reasons desire to pursue a special line of study, may be admitted as special students, provided they give evidence of ability to do the work desired. Special students may be allowed to graduate in any of the courses, on condition that they complete the required work and pass the necessary examinations.

REGISTRATION. All students register at the beginning of the collegiate year for the work of the whole year. Changes in registration, and credit for work not registered, will be allowed only by special permission of the Council.

SCHOLARSHIPS. The Federation of Women's Clubs for two years has offered two scholarships to the Department of Home Economics. These scholarships refund to the students the entrance fee. Applications for such scholarships for next year should be made not later than September 1st, 1911.

CLASSIFICATION. All regular students are classified as first, second, third, and fourth year students in the High School, or in Agriculture, Home Economics, Commerce, or Mechanic Arts; or as freshman, sophomore, junior, and senior students in any of the four-year courses leading to a degree.

GRADUATION. Students who complete any of the four-year Special High School courses in Commerce, Mechanic Arts, or Home Economics, receive certificates of graduation. The degree of Bachelor of Science, Bachelor of Science in Agriculture, Bachelor of Science in Home Economics, Bachelor of Science in Agricultural Engineering, and Bachelor of Science in Commerce, is conferred upon those who complete the regular four-year courses in General Science, Agriculture, Home Economics, Agricultural Engineering, and Commerce, respectively.

To obtain a degree the student must have been in attendance at least one school year preceding the conferring of the degree. He must have completed all the prescribed work or its equivalent in one of the four-year college schedules. He must have acquired credits for electives according to the grade and number indicated in his schedule. He may be required to pass a satis-
factory oral examination on the technical work of his course before a special committee appointed by the president. He must have no grade lower than D in any subject. Four-fifths of all 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.

HONORS IN SCHOLARSHIP.

In order to encourage high scholarship the College Council has instituted a College Roll containing the names of all students doing excellent work. This roll is divided into two groups for the High School and two for the College students, the first group containing the names of those who have A or B in all their work, the second composed of students having A or B with one C.

For the years 1909-10 and 1910-11 the following students were selected from the College Roll as deserving of some special distinction for high achievements in scholarship. On the last day of school they were, accordingly, publicly honored by receiving either a “College A” or “Honorable Mention” for Scholarship.

1909-10.

The following received “A”:

A. H. Saxer.
Veda Hunsaker.
Lucile Lee.
John A. Sharp.
Emily Riggs.
Vern C. Woolley.
The following received "Honorable Mention":
  Inez Maughan.
  Mrs. Bessie Day.
  W. R. Smith.
  N. A. Peterson.
  Canute Peterson.
  Amelia Manning.

1910-11.

The following received "A":
  John W. Peters.
  Canute Peterson.
  Grandison Gardner.
  Veda Hunsaker.
  Harry Beagley.
  Vern C. Woolley.

The following received "Honorable Mention":
  Card Greaves.
  John A. Sharp.
  I. B. Ball.
  G. M. Fister.
  N. A. Peterson.
  Lucile Lee.

STUDENT ACTIVITIES.

The Student Body Organization. This society embraces all the students of the institution. Its prime object is to foster a proper spirit of college loyalty. It also secures dispatch and efficiency, as well as uniformity, in the administration of all matters pertaining to the entire student body. Realizing the importance to all students of taking part in the various college activities, the organization further provides each member with the maximum
amount of proper athletic, theatrical and social recreation at the minimum expense, viz., $5.00 annually. This society has control of the following student activities:

1. *Athletics*, including all inter-class and inter-collegiate contests in foot ball, base ball, basket ball, and track events.

2. *Musicals*, including all public performances of the Band, the Orchestra, Glee Club, Choir, String Quartette, and Mandolin and Guitar Club. During the past four years the following operas have been presented: Herbert's *Babette*, Offenbach's *Marriage by Lantern Light*, Jones' *The Geisha*, Edward's *When Johnny Comes Marching Home*.

3. *Theatricals*. Once or twice each season some dramatic performance is given. In the past, two of Shakespeare's comedies, Goldsmith's *She Stoops to Conquer*, Gilbert's *Pygmalion and Galatea*, Clyde Fitch's *The Climbers*, George Ade's *The College Widow*, Pinero's *Amazons*, and several minor productions, have been presented.

4. *Debating*. Each year two or more intercollegiate debates occur. In addition there are several debating societies organized by the different classes.

5. *Student Publications*. The students of the College publish a school paper, *Student Life*, which makes its appearance once a week and contains timely editorials, news items, announcements, reports and forecasts of College activities. In addition, several magazine numbers of *Student Life* are published during the school year.

In 1908-9 the juniors inaugurated the publication of a College Year Book, which they christened *The Buzzer*. It was so eminently successful that it has become one of the permanent annual publications of the College.

**Clubs, Fraternities, and Sororities.** Not affiliated with the Student Body Organization, and standing largely for the interests of the various schools, are the following clubs:

*The Agricultural Club*, which aims to keep its members in touch with current events in scientific agriculture. Special lec-
tures, often illustrated, are given at intervals throughout the season.

Home Economics Club. The Home Economics Club is composed of the students in Domestic Science and Arts. Other students and instructors are eligible to associate membership. The object of the club is to keep students in touch with movements connected with their work and to promote interest in home economics work. Lectures and exhibits are given in connection with the club.

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 throughout the state on topics of special interest to the business man. All commercial students of college grade are eligible to membership.

The Delta Theta Sigma, a chapter of the recently established national honorary fraternity for students in Agriculture, Members are chosen for scholarship, being selected from among the upper two-fifths of the junior and the senior classes in Agriculture.

The Mechanic Arts Association is designed to promote the social and intellectual interests of the students in that school. All the teachers and all the regularly enrolled students of that school are eligible to membership. Monthly meetings are held throughout the year at some of which lectures are given by specialists.

The Sorosis, open to college women only, and having for its object general literary and social culture, as well as the advancement of college loyalty.

The Sigma Alpha Fraternity, open to college men and having for its object social and intellectual progress.

The Pi Zeta Pi Fraternity, open to college men. Its aims are to promote college loyalty, social and intellectual advancement.

The Phi Kappa Iota, open to college men, having for its purpose intellectual improvement and an increase of fraternal spirit.

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

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**STUDENTS' EXPENSES.**

Tuition is free. Utah students pay an annual entrance fee of $5. Students registering from other States must pay $25. The privileges of the library and museums are free. In the Chemistry, Physics, Mechanic Arts, and Home Economics laboratories, and in typewriting, students are charged an incidental fee of $1 per credit hour. The total amount varies in each case in accordance with the course taken, ranging from $2.00 to $13.00 a year.

Every regular student must pay a Student Body fee of $5.00, for which a ticket is issued admitting him to all the activities controlled by the Student Body Organization,—athletic events, foot ball, basket ball, base ball, 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 the boys during three years of their course are required to take Military Drill and must purchase a military uniform.* To this rule there is *no exception* unless a very unusual reason exists. This uniform is obtained through the Secretary of the College at actual cost, about $15.00, and has been found more serviceable and far more attractive in appearance than civilian clothes of the same price. With proper care one uniform will last two years.

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

All girls taking physical culture must provide themselves with a gymnasium suit and gymnasium shoes. These may be procured at the College. Cost, about $4.00.

The fee charged for a certificate of graduation is $2.50; and
for a diploma, $5.00. Students are held responsible for any injury done by them to the College property.

Good board and rooms can be obtained in private houses for $3.50 to $4.50 per week. By renting rooms and boarding themselves, students are able to reduce considerably the cost of room and board. The College maintains a lunch counter where, for a few cents, students may get a hot luncheon daily.

The cost of necessary books and stationery ranges from $10.00 to $15.00 a year.

WINTER COURSES.

In order to be of the greatest service to the greatest number of people the College offers, and has offered annually since its opening year, a series of winter courses. Hundreds of persons, young and old, men and women, unable to attend school at any other time, have in the past taken advantage of this opportunity, and the number increases each winter. These courses furnish instruction in Agriculture, Home Economics, Mechanic Arts, Commerce, and Forestry. In addition the student is permitted to take any course or courses in any of the other departments for which he may be prepared. All the work is elective. The Home Economics Department offers a two weeks' course in housekeeping. Sewing, cooking and sanitation are taught in the laboratory, and public lectures are given in the afternoons.

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 peculiar needs of summer students. For the benefit of teachers, special courses
are provided in pedagogy, psychology, and nature study, 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 county superintendents throughout the State to accept Summer School credits in individual subjects in lieu of examination. An entrance fee of $5.00 is charged for each course for which the student registers. Board and rooms can be secured throughout the city at the usual prices. Special Summer School Circular will be sent on request.

NORMAL TRAINING.

For the purpose of providing specially trained teachers in domestic science and arts, agriculture, and mechanic arts, arrangements have been made whereby the graduates of the State Normal School of the 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 will be credited the candidates for the professional degree.

Graduates from the degree courses in Home Economics, Agriculture, and Mechanic Arts of the Agricultural College will be given the normal certificate upon the completion of one year of professional work at the State Normal School.

Graduates from the various Manual Training Courses and other short courses of the Agricultural College will be entered for the professional work of the Normal School, and will be given full credit for the work done at the Agricultural College.
AGRICULTURAL COLLEGE OF UTAH.

SCHEDULE OF RECITATION HOURS.

The recitation periods, commonly known as hours, are fifty minutes in duration and begin at 8:30 a.m. After the third hour there is a daily intermission of 30 minutes for general devotional exercises. From 11:30 to 1:30 the Cafeteria, or College Restaurant, will be open. The fourth period (from 11:30 to 12:20) is given to Military Drill. The following table shows the entire schedule:

1 hour,  8:30—9:20.
3 hour,  10:10—11:00.
Chapel, 11:00—11:30.
4 hour,  11:30—12:20.
5 hour,  12:20—1:10.
6 hour,  1:10—2:00.
7 hour,  2:00—2:50.
8 hour,  2:50—3:40.
9 hour,  3:40—4:30.
Schools and Courses of Study.

For the purpose of more efficient administration, the College is divided into six 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 General Science; (6) The School of Mechanic Arts. In addition, a High School Department is maintained. These schools are educationally interdependent and together form a unit.

The School of Agriculture offers four-year college courses in Agronomy, Horticulture, Animal Husbandry and Dairying, Agricultural Chemistry, and Economic Entomology.

The School of Home Economics offers (1) a special four-year High School course in Home Economics; (2) four-year college courses in Domestic Science and Domestic Arts.

The School of Agricultural Engineering offers a four-year college course in Irrigation and Drainage, Road Building, Hydraulics, and the construction of Farm Buildings.

The School of Commerce offers (1) two special four-year High School courses in Commerce; (2) four-year college courses in Finance, Accounting, and Industrial Management.

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

The School of Mechanic Arts offers a special four-year High School course which may equip a man for carpentry, forging, machine work, or other trades.

The High School Department offers besides courses mentioned above a regular High School course which will fit students to enter any of the above schools, or other scientific institutions.

All college courses lead to a degree of Bachelor of Science; all other courses to certificates.
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 splendid opportunities to those who prepare themselves for scientific farming. There is a great demand for men who can supervise large farm enterprises; there is a greater demand for men who can act as experts, experimenters or teachers in the schools and other institutions in the State and National Government. The supply of such men does not begin to equal the demand. Many graduates of this School of Agriculture and of other similar institutions have later entered practical work in Agriculture.

The instruction in agriculture is provided by the departments of Agronomy, Animal Husbandry, Dairying, Horticulture, Entomology, Chemistry, Poultry Husbandry, and Veterinary Science. The courses of these departments are so arranged as to enable the student to lay a foundation upon which he can build a successful career as a farmer, or develop into a specialist in Agronomy, Animal Husbandry, Dairying, Entomology, Horticulture, or Agricultural Chemistry. The courses leading to a degree are offered for those who desire to secure positions as farm managers, experts in the State or Government employ, or as members of agricultural faculties and experiment station staffs.

Experience has shown that practically all of the students who take agriculture come from the farms, and it is assumed that they are acquainted with the various manual operations of farm work. The design of the courses, is, therefore, to teach the
sciences that underlie practical agriculture, and sufficient supple-
mentary studies to develop the agricultural student to the intel-
lectual level of the educated in the other professions.

The general and departmental libraries enable the student
to become acquainted with a wide range of agricultural and re-
lated literature: the laboratories of the College, and the Experi-
ment Station afford opportunity for training and experience that
it would be impossible to get from books alone.

THE SCHOOL OF HOME ECONOMICS.

The courses in Home Economics aim to train and broad-
en the minds of women, and to enable them to meet more in-
telligently 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 worthy of the best thought which results in the better-
ment of home life and more efficient living. Formerly the higher
education of woman led her away from the practical interests of
the home. The recent establishment 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 established such courses when this College
was first organized; and the favor with which the work has been
received by the public shows the wisdom of the plans. The Do-
mestic Science Course has been strengthened and improved each
year, and better facilities for instruction and study have been pro-
vided. The four-year courses give the same training in mathe-
metics, in English, and in science as other baccalaureate courses,
together with a broader culture in literature and modern lan-
guages than is offered in any other. Both in the preliminary work
and in the advanced years, special studies in the various lines of
home science are prescribed in logical order as the distinctive fea-
ture of the course. The Manual Training Course in Home Eco-
nomic s is offered for the benefit of young women who do not wish to take the studies of the regular college years, but desire to devote more time to the subjects of special interest to women.

Three courses are offered: a four-year Manual Training Course, leading to a certificate, and two four-year college courses, leading to the degree of Bachelor of Science in Home Economics. The regular foundation for the latter is the College Preparatory Course.

THE SCHOOL OF AGRICULTURAL ENGINEERING.

The greatly increased use of agricultural machinery, its growing complexity and ever extending development, the increasing size, cost and importance of farm buildings, together with the improvement of land by both irrigation and drainage, and the need of better built and more durable roads, render it necessary that those in charge of farm work should be educated in engineering. It is the aim, therefore, of the department of agricultural engineering to supply the kind of training outlined above and also to furnish opportunity for the investigation of similar problems.

The department is designed primarily to meet the needs of those who intend to follow farming as their life work, but will also meet the requirements of teachers preparing to meet the increasing demand in this direction. Students in this department may fit themselves to become managers or superintendents of farms where work is done on a large scale, instructors in agricultural engineering in colleges, teachers in mechanical or agricultural subjects in high schools, professional workers in drainage, irrigation and highway engineering, or to fill positions in the farm machinery industries where a combination of agricultural and mechanical knowledge is necessary. Students may specialize in irrigation and drainage or highway construction or farm machinery and farm motors. This work leads 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 should be better prepared to assume leadership and responsibility in business and in the various industries and professions. In order to meet the growing demands and to keep pace with recent tendencies in business education three courses, continuing for four years and leading to the degree of Bachelor of Science in Commerce, are offered. (1) Finance: This course is designed for those who wish to take the greater part of their work in Economics, Law or kindred subjects. (2) Accounting: The work of this course is more highly specialized and is adjusted to the needs of public accountants and those engaged in technical commercial work. (3) Industrial Management: This is an entirely new course. It attempts, first of all, to give the students a firm grasp of the essentials of agriculture, mining, and manufacturing. In the second place, by means of work in economics, law and accounting, it attempts to equip the students so that they may manage these industries successfully.

In addition to these college courses, two high school courses are given: (1) A four years' course designed for those who wish to do secretarial work. Considerable work in stenography and typewriting is required. (2) A four years' course which aims to prepare students to do practical work in bookkeeping as well as to enter some of the college courses. A certificate of graduation is given those who complete the four year courses. A short course is also provided for those who wish to take work during the winter months.

For those who wish to enter the professions of law and medicine, the commercial courses afford excellent preparation. Students who complete the courses will be well prepared for positions as teachers in commercial schools. The demand for thoroughly qualified teachers is greater than the supply, and many
Course are required to do at least one year of work in that branch. No machine work is given until the student has shown a reasonable proficiency with hand tools. 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 trades have changed greatly in recent years. Science has given them a secure foundation, and the wages of artisans have advanced so rapidly as to make the trades desirable as a means of livelihood. The lack of skilled artisans should encourage many boys to go into this kind of life work. The work offered by this school is a good preparation for engineering courses.

Two courses are offered: a four year course, and a short course continuing through two years, which gives the equivalent of the first year's regular work. Upon the completion of the four-year Mechanic Arts Course, students receive certificates of graduation.
## Schedules of Courses.

### COLLEGE COURSES IN AGRICULTURE.

**Freshman Year.**

*This year is the same in all five courses.*

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>English 6 (History of English Literature)</td>
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</tr>
<tr>
<td>Chemistry 1 (General Chemistry)</td>
<td>5</td>
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</tr>
<tr>
<td>Mathematics 6 (Trigonometry)</td>
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<tr>
<td>Agricultural Engineering 3 (Plane Surveying)</td>
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<td>3</td>
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<tr>
<td>French 2 or German 2</td>
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### AGRONOMY.

**Sophomore Year.**

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<tr>
<td>History 7 (History of Civilization)</td>
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<td>2</td>
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<tr>
<td>Geology 2 (General Geology)</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Botany 4 (Plant Physiology)</td>
<td>3</td>
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<tr>
<td>Bacteriology 1 (General Bacteriology)</td>
<td>3</td>
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<tr>
<td>Physiology 2 (Advanced Physiology)</td>
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<td>Library Work</td>
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<tr>
<td>Agronomy 3 (Cereal Crops)</td>
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<td>Agronomy 13 (Forage and Root Crops)</td>
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<td><strong>Total</strong></td>
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</table>
desirable positions as industrial managers are open to those who can do the work.

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 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, when the student has matured his plans. 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. The natural introduction to this work is the College Preparatory Course.

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

THE SCHOOL OF MECHANIC ARTS.

The course in Mechanic Arts is intended to qualify students as artisans, hence the practical work of the shops and drawing room is emphasized. The course admits of specialization in wood work, forging, machine work, foundry, horse-shoeing, carriage building and cabinet making. In this work are developed correct methods of using tools and of doing mechanical work neatly, efficiently and accurately. In all the departments of the school work is done from series of shop drawings, arranged in progressive order, giving both the details of the exercise and a drawing of the finished product. Sufficient work is given in English, mathematics and elementary science to furnish a fair high school education. Students electing any branch of the Mechanic Arts
### Junior Year.

<table>
<thead>
<tr>
<th>Course</th>
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<td>Economics 2 (General Economics)</td>
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<tr>
<td>Physics 5 (Agricultural Physics)</td>
<td>3</td>
</tr>
<tr>
<td>Chemistry 3 (Organic Chemistry)</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry 5a (Soils)</td>
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<td>Agronomy 4 (Dry-Farming)</td>
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<td>Irrigation 2 (Irrigation Practice)</td>
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<td>Agronomy 11 (Soil Management)</td>
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<td>Agronomy 6 (Comparative Soils)</td>
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| Total                                       | 18      |

### Senior Year.

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>English 15 (General Literature)</td>
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<td>Economics 12 (Agricultural Economics)</td>
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<td>Agronomy 10 (Advanced Soils)</td>
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<td>Botany 9 (Plant Breeding)</td>
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<p>| Total                                       | 18      |</p>
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<tr>
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<td>1</td>
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<td>Veterinary Science 2 (Comparative Anatomy)</td>
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<td>Electives</td>
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**Junior Year.**

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<tbody>
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<td>English 7 (College Rhetoric)</td>
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<td>Physics 5 (Agricultural Physics)</td>
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<td>Chemistry 5a (Soils)</td>
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<td>Animal Husbandry 3 (Animal Nutrition)</td>
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**Senior Year.**

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<th>Course</th>
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<tr>
<td>English 15 (General Literature)</td>
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<td>Economics 12 (Agricultural Economics)</td>
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<tr>
<td>Accounting 8 (Farm Accounts)</td>
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<tr>
<td>Zoology 3 (Principles of Breeding)</td>
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<td>Animal Husbandry 4 (Breeding and Herd Book)</td>
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HORTICULTURE.

Sophomore Year.

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<td>History 7 (History of Civilization)</td>
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<td>Geology 2 (General Geology)</td>
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<tr>
<td>Botany 4 (Plant Physiology)</td>
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<td>Bacteriology 1 (General Bacteriology)</td>
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<td>Physiology 2 (Advanced Physiology)</td>
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<tr>
<td>Library Work</td>
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<td>Horticulture 2 (General Horticulture)</td>
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<tr>
<td>Horticulture 3 (Bush Fruits)</td>
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<td>Botany 5 (Plant Pathology)</td>
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<td>Electives</td>
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Junior Year.

<table>
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<tr>
<th>Course</th>
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<tbody>
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<td>English 7 (College Rhetoric)</td>
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<td>Economics 2 (General Economics)</td>
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<tr>
<td>Physics 5 (Agricultural Physics)</td>
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<tr>
<td>Chemistry 3 (Organic Chemistry)</td>
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</tr>
<tr>
<td>Chemistry 5a (Soils)</td>
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<tr>
<td>Horticulture 7 (Systematic Pomology)</td>
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<td>Horticulture 4 (Vegetable Gardening)</td>
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Senior Year.

<table>
<thead>
<tr>
<th>Course</th>
<th>1st Term</th>
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</thead>
<tbody>
<tr>
<td>English 15 (General Literature)</td>
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<tr>
<td>Economics 12 (Agricultural Economics)</td>
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<tr>
<td>Accounting 8 (Farm Accounts)</td>
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<td>Horticulture 9 (Horticultural Literature)</td>
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<td>Horticulture 11 (History of Horticulture)</td>
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<tr>
<td>Zoology 3 (Principles of Breeding)</td>
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<tr>
<td>Botany 9 (Plant Breeding)</td>
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<td>Meteorology</td>
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# Entomology

## Sophomore Year

<table>
<thead>
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<tbody>
<tr>
<td>History 7 (History of Civilization)</td>
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<tr>
<td>Geology 2 (General Geology)</td>
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<td>Botany 4 (Plant Physiology)</td>
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<td>Bacteriology 1 (General Bacteriology)</td>
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<td>Physiology 2 (Advanced Physiology)</td>
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<td>Entomology 2</td>
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<td><strong>Total Credits</strong></td>
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## Junior Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>English 7 (College Rhetoric)</td>
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<tr>
<td>Economics 2 (General Economics)</td>
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<tr>
<td>Physics 5 (Agricultural Physics)</td>
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</tr>
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<td>Chemistry 3 (Organic Chemistry)</td>
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<td>Chemistry 5a (Soils)</td>
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<td>Zoology 3 (Principles of Breeding)</td>
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<tr>
<td>Botany 9 (Plant Breeding)</td>
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## Senior Year

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>English 15 (General Literature)</td>
<td>2</td>
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<tr>
<td>Economics 12 (Agricultural Economics)</td>
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</tr>
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<td>Accounting 8 (Farm Accounts)</td>
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</tr>
<tr>
<td>Meteorology</td>
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<tr>
<td>Entomology 4 (Entomological Literature)</td>
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<td>Entomology 5 (Advanced Entomology)</td>
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### Sophomore Year

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>History 7 (History of Civilization)</td>
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<td>Geology 2 (General Geology)</td>
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<td>Bacteriology 1 (General Bacteriology)</td>
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<td>Library Work</td>
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<td>Chemistry 11 (Qualitative Analysis)</td>
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<td>Electives</td>
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<td><strong>Total</strong></td>
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### Junior Year

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>English 7 (College Rhetoric)</td>
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<tr>
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<tr>
<td>Chemistry 5a (Soils)</td>
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<td>Chemistry 6 (Quantitative Analysis)</td>
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### Senior Year

<table>
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<tr>
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AGRICULTURAL COLLEGE OF UTAH.

COLLEGE COURSES IN HOME ECONOMICS.

DOMESTIC SCIENCE.

Freshman Year.

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Sophomore Year.

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## Junior Year

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## Senior Year

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**AGRICULTURAL COLLEGE OF UTAH.**

**DOMESTIC ARTS.**

**Freshman Year.**

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**Sophomore Year.**

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**Junior Year.**

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**Senior Year.**

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### Junior Year

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| Total                                          | 18       | 18       |

### Senior Year

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| Total                                          | 18       | 18       |

Note.—Students completing this course will be admitted to the Junior year of the Engineering Courses of the State School of Mines of the University of Utah.
# Agricultural College of Utah

## College Courses in Commerce

### Accounting

#### Freshman Year

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<td>Economics 1 (Elements of Economics)</td>
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#### Sophomore Year

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#### Junior Year

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**AGRICULTURAL COLLEGE OF UTAH.**

**FINANCE.**

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<td>Geology 2 (General Geology)</td>
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<td>History 4 (Modern European History)</td>
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<tr>
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<tr>
<td>Economics 5a (Money)</td>
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<td>Economics 5b (Banking)</td>
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<td>Political Science 6 (Agency)</td>
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<td>Economics 7 (Corporation Finance)</td>
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### Freshman Year

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<td>Economics 1 (Elements of Economics)</td>
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<td>Economics 8 (Economic History of the U. S.)</td>
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<td>History 4 (Modern European History)</td>
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<td>Chemistry 11 (Qualitative Analysis)</td>
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<td>Economics 5a (Money)</td>
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<td>Economics 5b (Banking)</td>
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<td>Geology 4 (Mineralogy)</td>
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### Senior Year

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<td>Economics 6b (Taxation)</td>
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<td>Geology 3 (Economic Geology)</td>
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# COLLEGE COURSE IN GENERAL SCIENCE.

## Freshman Year.

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<tr>
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All of the work of the sophomore, junior, and senior years is elective; but students are required to complete two years' work in modern languages, and to take an equivalent of five hours through one year in English, of three hours in economics, and of four and one-half hours in zoology and botany. With these restrictions, the whole field of college work lies open, with the understanding that the student will select some one major subject to which to direct his attention, and will group related courses around this, under the direction of the department in which he specializes. For convenience, the subjects offered have been grouped as below, and the requirement is that above the freshman year the student shall complete ten hours of his work in his major subject, ten hours in subjects found in the same group, and the remainder as he may elect. For graduation, eighteen hours are required in the freshman and sophomore years, and the equivalent of seventeen hours through each of the following years. A subject marked * below cannot become a major in the General Science Course; and as required collateral work, the strictly technical studies are excluded.

### Science Group.
- Bacteriology
- Physiology
- *Entomology*
- Zoology
- *Geology and Mineralogy*
- *Animal Husbandry*
- *Agronomy*
- *Home Economics*
- Chemistry
- Botany
- *Horticulture*

### Mathematical Group.
- Mathematics
- Physics
- *Agricultural Engineering*
- *Irrigation and Drainage*
- Chemistry

### Literary Group.
- English
- *Economics*
- Languages
- *Political Science*
- History
- *Art*
- *Accounting*
## HIGH SCHOOL DEPARTMENT.
### HIGH SCHOOL COURSE.

#### First Year.

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<td>Mathematics 2 (Algebra)</td>
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<tr>
<td>Agronomy 2 and Animal Husbandry 1</td>
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#### Second Year.

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<td>French 1 or German 1</td>
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## AGRICULTURAL COLLEGE OF UTAH.

### OPTIONALS—HIGH SCHOOL COURSE.

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## MECHANIC ARTS (HIGH SCHOOL).

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# Agricultural College of Utah

## Home Economics (High School)

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<td>Domestic Art 1, 2 (Plain Sewing)</td>
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<td>Domestic Science 1 (Sanitation and Food)</td>
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<td>Physiology 1 (Elementary Physiology)</td>
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<td>History 6 (History and Civics)</td>
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<td>Botany 1 (General Botany)</td>
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**Third Year.**

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<td>Physics 1 (Elementary Physics)</td>
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<td>Economics 11 (Industrial and Commercial Law)</td>
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<td>Accounting 3 (Office Practice and Banking)</td>
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# STENOGRAPHY AND TYPEWRITING (HIGH SCHOOL)

## First Year

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|        | 19 | 19 |
**AGRICULTURAL COLLEGE OF UTAH.**

**WINTER COURSES.**

(Tuesday, November 7th, 1911, to Saturday, March 17th, 1912.)

**AGRICULTURE.**

**First Year.**

<table>
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<td>Shop Work</td>
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<td>Agronomy 2a</td>
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<td>Horticulture 1</td>
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**Second Year.**

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**MECHANIC ARTS.**

**First Year.**

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<tr>
<td>Technology 1a</td>
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<td>Shop Mathematics 1a</td>
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<td>Shop Work</td>
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<td>Technology 1b</td>
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<td>Shop Mathematics 1b</td>
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COMMERCE.

The following subjects will be offered from which winter students may select from 18 to 20 hours.

- English 3a: 5
- Business Correspondence and Spelling: 5
- Commercial Arithmetic: 5
- Political Science 1a: 3
- Penmanship: 1
- Accounting 1: 1
- Economics 11: 3
Departments of Instruction.

ACCOUNTING.

Assistant Professor P. E. Peterson.
Mr. L. A. Stevens.

1. Bookkeeping. Thorough drill in the principles of debit and credit, in balancing and closing accounts, and in making trial balances, statements, and balance sheets. The journal, cash book, sales book, and ledger are used. Two hours daily throughout the year. Five credits.

2. Business Practice. The student employs the principles learned in course one in a manner approaching as nearly as possible to actual business. He performs complete transactions with the firms represented in the office practice department. As much of the work is done by correspondence, special emphasis is given to letter writing. A daily rapid calculation drill is given. Two hours daily, throughout the year. Five credits.

3. Office Practice and Banking. In this course the student is employed successively in offices representing various lines of business, as wholesale and retail merchandising, real estate and insurance, commission, railway station work, and banking. Corporation organization and accounting are emphasized. The student is thoroughly drilled in adapting his theoretical principles to varied conditions and methods. Three credits.

4. Principles of Accounting. This is a first course in the study of the “Construction and Interpretation of Accounts.”
It is designed to meet the needs of college students who may not have had previous bookkeeping training. The first few weeks will be devoted to a study of bookkeeping and a number of sets will be required. The latter part of the course will be given to the more weighty accounting questions, such as the significance of the balance sheet, depreciation, the distinction between capital and income, the value of statistics, principal and interest, valuation, railway, banking, insurance and manufacturing accounts. Three hours throughout the year. Three credits.

5. Accounting Practice. This course follows Accounting 4. It is intended to afford practical experience in the keeping of accounts. Three credits.

6. Accounting Problems. This course is specifically intended to prepare men for work as public accountants. It gives careful attention to the working out of various published reports and balance sheets, and the solution of such accounting problems as are likely to come up in actual practice. Three hours throughout the year. Three credits.

7. Household Accounts. This course is intended to meet the needs of the students in the School of Home Economics. Laboratory work, one term. One and one-half credits.

8. Farm Accounts. This course is designed to meet the needs of the students in the School of Agriculture. Laboratory work, one term. One and one-half credits.

COMMERCIAL ARITHMETIC.

This is a complete course in commercial mathematics. Particular attention is given to business measurements, and to percentage and interest as applied to profit and loss, commission, stocks and bonds, insurance, bank discount, averaging accounts, and partnership adjustments. Short methods are emphasized. Three hours throughout the year. Three credits.
PENMANSHIP.

This course aims to develop a practical handwriting. Much stress is laid on movement and position of hand and body. Beginning with easy movement drills, the student advances through more difficult exercises to words and short sentences. Designed for first year students and for Winter Course students. Five hours a week throughout the year. One credit.

BUSINESS CORRESPONDENCE AND SPELLING.

This is a course designed for first year students. Practice in the writing of all kinds of business letters is given and the correct use of all business blanks and forms is emphasized. The latter part of the course is devoted to the acquiring of a business vocabulary. Two hours throughout the year. Two credits.

AGRICULTURAL ENGINEERING.

Professor Drew.

1. FARM MACHINERY. This course deals with the tools and the machinery of the farm, their development, design, construction, operation, draft, durability, and care. Two recitations and one three-hour laboratory period, second term. One and one-half credits.

2. PLANE SURVEYING. The general methods of plane and topographic surveying and the use, care, and adjustment of instruments. The field work is adapted to the requirements of workers in irrigation, drainage, and land surveying. Two hours throughout the year. Two credits.

3. PLANE SURVEYING. A half-year course in the elements of surveying, designed especially for students in agriculture. Three hours, second term. One and one-half credits.
5. **Hydraulics.** This course deals with the flow of water in natural and artificial open channels, in pipes, and flumes; the elementary laws of liquids in motion and at rest, and the elementary principles of water-power development. Three hours, first term. One and one-half credits.

6. **Road Construction.** A study of such questions as the establishment of grade, drainage, and road bed; road materials, including different kinds of earth, gravel and stone; the slope of the road surface; rock crushing, rolling, etc. The cost of building different kinds of roads and the proper manner of performing the various operations economically will be fully discussed. Prerequisites, Surveying and Mechanical Drawing. Three hours, first term. One and one-half credits.

7. **Road Maintenance.** The effect of the width of tires on the road, keeping the road in proper form, adding materials to worn surfaces, keeping the drainage channels clean, employment of labor on the roads, cost of maintenance, etc. Prerequisites, Surveying and Mechanical Drawing. Three hours, second term. One and one-half credits.

8. **Motors.** A study of the steam and gasoline engine. Three hours, first term. One and one-half credits.

9. **Concrete Construction.** Three hours, second term. One and one-half credits.

10. **Rural Architecture.** Farm buildings, their arrangement, cost, location and design. Three hours, first term. One and one-half credits.

11. **Graphic Analysis of Roof and Bridge Trusses.** Diagrams for steady load, snow and wind; highway bridges and their action under steady and moving load; the kind of trusses in common use and the solution of various problems that arise in the design of such trusses. Three hours, first term. One and one-half credits.

12. **Strength of Materials.** A study of the materials of construction, their strength and resistance, action under various methods of loading, the stresses set up in beams, columns
and girders, and problems in the design of structural parts. Three hours, second term. One and one-half credits.

AGRONOMY.

Professor Harris.
Mr. Bowman.

2. Elementary Agriculture. This course is designed especially to meet the needs of three classes of students: 1. Those students not registered for agriculture who desire, while in the college, to get a brief insight into the subject; 2. Beginning students in agriculture who wish a general view of the subject in its related form before specializing in any of its branches; 3. Prospective teachers in elementary or secondary schools who may need to give instruction in agriculture or nature study. The various subjects pertaining to agricultural science will be treated in a non-technical manner. Lectures, demonstrations, and written reports. Five hours, one term. Two credits.

3. Cereal Crops. Lectures, recitations, and laboratory practice on the history, cultivation, production, and marketing of cereal crops. The peculiarities, special cultural needs, and comparative values of each, will be discussed. The laboratory practice is designed to give an intimate knowledge of the plants and a basis for judging their products. Two lectures and one laboratory period, first term. One and one-half credits.

4. Dry-Farming. Instruction is given in the methods best adapted to the growing of profitable crops on arid lands; the treatment of the soil, including the conservation of soil moisture by deep and fall plowing, mulching, etc.; the soils and crops best adapted to arid farming; and the regions offering favorable conditions for its successful practice. The experiments being carried out at the different arid experimental farms of the state are discussed. Three hours, one term. One and one-half credits.
5. Manures. This course deals with the sources, uses, and effects of artificial fertilizers and amendments; the kinds, compositions, functions, and deterioration of farm manures and the economical methods of their use. Experiments with manures conducted at different stations will be discussed in detail. One hour, first term. One-half credit.

6. Comparative Soils. A study of the soils of the world, compared as to their origin, composition, and agricultural value. The various soil provinces and types of the United States and especially those of the arid regions will be investigated and the methods of their classification discussed. The soils of Utah will be taken up in detail; the crops adapted to them, and the treatments they should receive will be given special attention. Two hours, one-term. One credit.

7. Investigation and Experimentation. A study of the organization and work of various experiment stations and other agencies of agricultural research in this and other countries. The work done by the different stations, as well as the problems at present under investigation will be reviewed. Experiments will be planned; common weaknesses in manipulation will be considered; and practice will be given in drawing conclusions from submitted data. Not open to students below the junior year. Two hours, throughout the year. Two credits.

8. Seeds. Judging of wheat, oats, barley, corn, potatoes, etc., and a study of market grades and adulterations. The quality and preservation of seeds; their storage, shrinkage, vitality, germination, methods and depth of planting, and methods of treatment to prevent diseases. Class room, laboratory, and field work. Two hours, first term. One credit.

9. Elementary Farm Crops. This course treats, in a brief manner, the important farm crops. It is designed for students not specializing in agronomy who wish a general knowledge of the subject, and comprises lectures, recitations, field trips, and laboratory practice on the history, production, characteristics, cultivation, and management of crops. Special attention is given
to those produced in Utah. Three class periods and one laboratory period, second term. One and one-half credits.

10. Advanced Soils. A discussion of the chemical, physical, and biological properties of soils. The course will treat of the methods of soil investigation and theories of fertility; the relation between soils and crops; and the ultimate effect of certain soil treatments. Special study will be made of the soil solution and of the movements of moisture in the soil. Lecture and laboratory, second term. Two credits.

11. Soil Management. A practical course, dealing with the application to actual farming operations of the principles studied in Chemistry 5a. It is designed to meet the needs of farm managers, giving them a knowledge of the most approved methods of handling western soils. It treats such subjects as time and method of plowing and the other tillage operations; the rotation of crops; the methods of conserving soil moisture; methods of manuring; the improvement of alkali soils; and such other practical operations and problems as are encountered in the management of soils. Lectures and demonstrations. Two hours, one term. One credit.

13. Forage, Root and Miscellaneous Crops. Lectures, recitations, and laboratory practice on alfalfa, clovers, grasses, sugar beets, potatoes, and other crops. Their history, methods of cultivation, harvesting, marketing, and value, will be discussed. In the laboratory the plants and their products will be studied in detail. Field trips will also be taken. Two lectures and one laboratory period, second term. One and one-half credit.

14. Crop Ecology and Agricultural Geography. The first part of the course will comprise lectures and demonstrations on the relation of plants to their climatic environment. The second part will discuss the types of agriculture in vogue in various parts of the world, and the reasons for these particular types. Prerequisite, Botany 1. Two hours, first term. One credit.

15. History of Agriculture and Rural Social Condi-
tions. The first part of the course will deal with the various practices employed in agriculture by different peoples during the history of the world from the time of the earliest records to the present; also of the introduction of science into agriculture and the resulting improvement in methods. The second part will deal with social conditions as they exist among rural communities, the changes they have undergone with the improvements in agriculture, and the problems that need solution at the present time. Not open to students below the junior year. Two hours, first term. One credit.

16. Advanced Laboratory in Soils. Experiments covering somewhat the same field as covered by the lectures in Agronomy 3. Exercises will be given dealing with the soil solutions, the fixation of substances added to the soil, soil moisture relations, alkali, and similar subjects. Agronomy 3 must precede or accompany this course. Two hours or more, second term. Credits to be arranged.

17. Weeds. This course includes lectures and class and laboratory exercises on the occurrence, identification, and best methods of eradication of the principal noxious weeds of the State. Each student will be required to classify and mount a number of specimens for the department herbarium. Prerequisite, Botany 1. One recitation and one laboratory period, first term. One credit.

19. Seminar. Each week the advanced students of agronomy will meet for one hour to review current agronomic literature, discuss agricultural problems, and report on assigned topics. Required of seniors specializing in Agronomy; open also to juniors. One hour, throughout the year. One credit.

20. Research. Seniors specializing in agronomy may elect research work in any branch of the subject. Time by appointment, and credit according to work done.
ANATOMY AND PHYSIOLOGY.

Professor E. G. Peterson.

1. Elementary Physiology. A course intended for high school students. The structure and functions of the different parts of the human body are studied in the classroom and in the laboratory. Some microscopic work is given. Two recitations and one laboratory period throughout the year. Two credits.

2. Advanced Physiology. A complete discussion of movement, sensation, circulation, respiration, digestion, absorption, metabolism, and excretion. Questions of hygiene and sanitation are discussed. Three hours, one term. One and one-half credits.

3. Digestion, Absorption and Metabolism. An advanced course in special phases of physiology. It will involve research work.

ANIMAL HUSBANDRY.

Professor Caine III.
Assistant Professor Turpin.
Assistant Professor Carroll.

1. Market Types. The judging of market types of horses, cattle, sheep, and swine. Some score card practice will be given, but most of the work will be comparative judging of groups of animals. Five hours, one term. Two credits.

2. Breed Types. The first term's work covers the origin, history and characteristics of the different breeds of cattle and sheep, especial stress being laid upon their adaptability to western conditions. In addition instruction is given in the judging of representatives of different breeds according to their official standard. The second term is given to a similar study of the types of horses and hogs. Three hours throughout the year. Three credits.
3. **ANIMAL NUTRITION.** A brief study of the anatomy and physiology of the digestive system, and the purposes of nutrition; the theory and practice of feeding, with especial reference to Utah conditions. Three hours throughout the year. Three credits.

4. **PRINCIPLES OF BREEDING AND HERD BOOK STUDY.** The laws of heredity, correlation, revision, variation, fecundity; the methods of breeding, cross-breeding, in-and-in breeding, and selection. Special attention will be given to the methods of celebrated breeders. This work will be followed by a study of the various herd books and of the pedigrees of noted individuals of the important breeds. Three hours, one term. One and one half credits.

5. **LIVE STOCK MANAGEMENT.** The housing, care and management of different classes of live stock, with especial attention to western conditions. One lecture and two laboratory periods, one term. One credit.

6. **ADVANCED STOCK JUDGING.** A course in the judging of groups of animals of all classes. It takes up the work done at fairs, and prepares the student for real judging in the ring. Prerequisites, Animal Husbandry 1 and 2. Two hours, one term. One credit.

7. **PRACTICAL FEEDING.** This course is a combination of many of the principles of courses in feeding and management, and will be wholly practical. Some time will be given to the laws of nutrition, the balancing of rations, and the care and management of all classes of live stock. Three hours, first term. One and one half credits.

8. **ADVANCED NUTRITION.** A study of the methods of experimentation, as recorded in bulletins, scientific findings, etc., in greater detail than in Animal Husbandry 3. Three hours, second term. One and one-half credits.

9. **SEMINAR.** The advanced students of Animal Husbandry and Dairying meet once a week with the instructors of the depart-
ment to review the current literature and special phases of these subjects. One hour throughout the year. One credit.

POULTRY Husbandry.

ASSISTANT PROFESSOR TURPIN.

1. General Poultry. This course includes practical laboratory work besides assigned reading, lectures and recitations on the more important phases of poultry management. The question of breeds, judging and breeding, incubation, brooding, housing, feeding and marketing are taken up in as much detail as time will permit. Two recitations and one laboratory period, one term. One and one-half credits.

2. Incubation. Besides considerable practical and experimental work in incubation, this course includes a series of lectures and assigned readings on the important factors which influence the hatching quality of eggs, both before and during the incubation period. Prerequisites, Poultry 1, Chemistry 1, Physics 1, and Physiology 1. One recitation and two laboratory periods, one term. Two credits.

3. Feeding and Brooding. This course includes much experimental and practical work in feeding for growth, egg production, and market qualities. Prerequisites, Poultry 1 and Chemistry 1. One recitation and laboratory work according to special appointment. Credit according to the amount of work done.

4. Breeds and Breeding. A study of the origin and development of the more important breeds and varieties of poultry. Practice in judging according to the standard of perfection and for special market types. A review of the literature on Breeding for utility and exhibition purposes. Prerequisites, Poultry 1, Zoology 2, 3.

5. Anatomy, Physiology and Diseases of Poultry. The work on diseases will consist principally of the causes and methods of identification and prevention. Prerequisite, Poultry 1.
Two recitations and one laboratory period, throughout the year. Three credits.

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**ART.**

ASSOCIATE PROFESSOR FLETCHER.
ASSISTANT PROFESSOR POWELL.

1. **Nature Drawing and Design.** Drawing from plant, animal, and insect forms with a view to preparing students for their scientific work as well as developing their artistic sense; the study of the principles of design and their application. Five hours throughout the year. Two credits.

2. **Design.** The work in this course aims to acquaint the student with the principles that underlie all art. The fundamental principles of order, as expressed by balance, rhythm, and harmony, are considered, and problems of home life embodying these principles are worked out. Five hours throughout the year. Two credits.

3. **Freehand Drawing and Design.** Perspective and sketching from objects with careful attention to pencil rendering; ornamental drawing from casts and decorative details; constructive design of furniture and architecture. Five hours throughout the year. Two credits.

4. **Home Art.** A continuation of Art 2 with greater emphasis on applied design in stenciling, block-printing, etc. Designing for art needle work, costume design and decoration, and other problems of home life comprise part of the work. Seven hours, one term. One and one-half credits.

5. **General Art Study.** This course is designed to acquaint the student with general art study. Object drawing, sketching, elementary design, and lettering with talks on the history of
art, will comprise the course. Five hours throughout the year. Two credits.

7, 8, 9. Scientific Drawing. These courses are designed for those wishing practice in microscopic drawing. Five hours a week for each course throughout the year. Two credits.

10. History of Art. A general course in the history of painting, sculpture, and decoration. Two hours throughout the year. Two credits.

11. Aesthetics. A general course in the fundamentals of beauty as applied to the arts. Two hours throughout the year. Two credits.


13. Professional Costume Design.


15. Pottery and China Decoration.

16. Lettering.

17, 18, 19. Furniture, Metal, and Interior Design.


Hours and credits for electives to be arranged with the instructor, when not stated above. Other advanced courses will be given for properly qualified students.

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Bacteriology.

Professor E. G. Peterson.

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1. General Bacteriology. The preparation of media, sterilization, different staining methods, classification, general biology, cultural characters of typical forms, quantitative and qualitative methods of examination; function, distribution, cultivation, isolation, and identification of important forms. One term of laboratory work and lectures. One and one-half credits.
2. Pathogenic Bacteriology. A course covering the fundamentals of the subject: morphology, classification, biology, distribution, function, cultural and staining characters, methods of cultivation, theories of immunity, the principles of applied bacteriology. A discussion of disease producing organisms. Three lectures a week for one term. One and one-half credits.

3. Soil Bacteriology. A course covering the principles of soil bacteriology and fitting the student for original investigation. Exercises involving questions of relation of depth, moisture, character of soil, temperature, chemical reaction, and aeration, to bacterial life; ammonification, nitrification, denitrification, nitrogen fixation, soil inoculation. Prerequisite, Bacteriology 2. Six hours a week for one term. Laboratory work, lectures and reports. One and one-half credits.

4. Dairy Bacteriology. A course covering the principles of dairy bacteriology. A consideration of 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 2. Six hours a week for one term. Laboratory work, lectures, and reports. One and one-half credits.

5. Household Bacteriology. A study of bacteria in their relation to household economy; bacteria in milk, water and other foods; milk and water contamination; effect of cooling and pasteurization upon milk; yeasts, molds and fermentation; bacteriology in relation to canning and preservation; minimum, optimum and maximum temperatures, and thermal death point of important household species; action of disinfectants. Prerequisite, Bacteriology 2. Six hours a week. Laboratory work, reports and discussion. One and one-half credits.

6. Research Work. The laboratory and library facilities are especially arranged to meet the needs of advanced students desiring to undertake bacteriological investigation with reference to agriculture, household science, the industries, sanitary science, and veterinary science. Time and credit to be arranged.
7. **Seminar.** The advanced students and others interested will meet to discuss current literature and to hear the results of original investigation. Credit may be received for attendance at these meetings.

**BOTANY.**

**Professor C. N. Jensen.**

**Mr. G. L. Zundel.**

1. **General Botany.** This course aims to give a broad, general insight into the fundamental principles of botany. It deals with general morphology, physiology, ecology, and life history of representative plants. Considerable attention is given to the classification of representative species. The student must collect and identify fifty specimens. One lecture, one recitation, and five hours of laboratory throughout the year. Three credits.

   *Botany I is prerequisite for all the following courses:*

2. **Flowering Plants.** Principles of classification of angiosperms and gymnosperms with special reference to grasses, composites, poisonous plants, weeds, and timber trees. This course is designed to meet the needs of students interested in forestry and those desiring more taxonomic work than can be obtained in Botany I. One lecture and five hours of laboratory, twenty weeks in the fall and spring. One and one-half credits.

3. **Histoology.** This course includes a study of the cell and its contents, minute anatomy of plants, and histological technique. Special emphasis is placed on cell function, development of tissue into structures and organs, and preparation of material for microscopic study. One lecture and five hours laboratory work, one term. One and one-half credits.

4. **Plant Physiology.** A study of the processes and functions of plants, including osmosis and absorption, transpira-
tion, translocation, photosynthesis, respiration and fermentation, nitrogen fixation, growth, correlations, periodicity in development, heredity and variation, stimulus and response, reproduction and death. One lecture, one recitation, and five hours laboratory, throughout the year. Three credits.

5. **Plant Pathology.** A general study of the history of plant diseases, including the nature and cause and the principles of control. The most typical and important diseases of cultivated crops will be studied in detail. One lecture and five hours laboratory throughout the year. Three credits.

6. **Etiology of Plant Diseases.** This is a study of the taxonomy and phylogeny of plant disease-producing organisms. One lecture and two laboratory periods throughout the year. Three credits. *Omitted in 1911-1912.*

7. **Seminar.** For advanced students in botany and plant pathology. A discussion of recent literature of botanical and plant pathological interest. Reports on special topics are required of each member of the course. One hour throughout the year.

8. **Research Course.** Students specializing in Botany or Plant Pathology will be given opportunity in their Senior year to do original investigation on assigned topics.

9. **Plant Breeding.** A study of the principles and practices of plant breeding. Variation, hybridization, and selection in their relation to plant improvement will be discussed; various methods of breeding compared; and published experimental results critically examined. Three hours, one term. One and one-half credits. Prerequisite, Agronomy 7 or 8.

10. **Economic Botany.** A study of useful plants and plant products. This course is presented by lectures, assigned readings, and reports. Three hours, second term. One and one-half credits.
AGRICULTURAL COLLEGE OF UTAH.

CHEMISTRY.

Professor Stewart.
Associate Professor Greaves.
Assistant Professor Porter.
Mr. Hirst.
Mr. Quayle.

1. General Chemistry. This course deals with the important facts and fundamental theories of chemistry, and with the applications to the arts and manufactures. The laws of chemical combination, the writing of reactions, and the solving of chemical problems are given careful consideration. Three recitations and two laboratory periods throughout the year. Five credits.

2. Organic Chemistry. A brief survey of the more important reactions and compounds of the fatty and aromatic series of hydrocarbons and their derivatives. Special attention is paid to the chemistry of the fats, the carbohydrates, the proteins, the amino acids and the dyes. Three recitations and one laboratory period, first term. Two credits.

3. Organic Chemistry. Lectures and assigned readings on the organic chemical problems of agriculture. After a study of the fundamental principles of organic chemistry, a systematic study is made of carbohydrates, fats and proteins. This course is designed to furnish the agricultural students with the necessary groundwork for future work in physiological botany, and physiology. Three recitations and one laboratory period, first term. Two credits.

4. Elementary Quantitative Analysis. A laboratory course designed especially for Home Economics students. The adaptation of the principles of ordinary gravimetric and volumetric analysis to a study of the composition of ordinary food products. Two laboratory periods, second term. One credit.
5a. Soils. A study of the methods of the analysis of soils in their relation to crop production; soils of the arid and humid regions; alkali soils, their nature and composition, utilization and reclamation; soil fertility and methods of maintenance; the value, composition and preservation of barn-yard manure. Prerequisite, Chemistry 1. Three lectures and two laboratory periods, second term. Four credits.

5b. Soils. A laboratory course in the study of the soil. Soils, crops, and fertilizers are analyzed for phosphorus in the soil, and the influence of the different plant foods on the growth of the plant, are studied in the laboratory. Prerequisites, Chemistry 1, 5a. Two laboratory periods. One credit.

6. Quantitative Analysis. After becoming somewhat familiar with the common methods of quantitative analysis the student analyzes various products, such as milk, butter, etc. Three laboratory periods throughout the year. Three credits.

7. Physiological Chemistry. In this course the student considers the chemical changes going on in the living animal body; the essential composition of foods and the changes through which they pass in the animal economy; the chemistry of secretions and excretions, and of the blood and tissues. Prerequisites, Chemistry 1 and 2. Three recitations, second term. One and one-half credits.

8. Household Chemistry. A quantitative chemical study of the composition of the air of the household; a study of the composition of water and its contamination, and of the composition of foods and their adulterations. One recitation and three laboratory periods, second term. Two credits.

9. Industrial Chemistry. Lectures and assigned reading on special chemical industries, e.g. the manufacture of sulphuric acid, soda, commercial fertilizers, lime and cements, glass and porcelain, pigments, sugar, starch, alcohol, soap, and explosives. Prerequisite, Chemistry 1. Three hours throughout the year. Three credits.
10. **Advanced Organic Chemistry.** In this course a systematic study is made of the compounds of carbon from the point of view of systematic organic chemistry. This course is designed for students who intend to make chemistry a profession. Two recitations and two laboratory periods throughout the year. Four credits.

11. **Advanced Qualitative Analysis.** This is mainly a laboratory course in qualitative analysis. Three laboratory periods throughout the year. Three credits.

12. **Research Work.** The laboratories of the College and Experiment Station are open to students with the necessary preparation who desire to pursue independent studies in chemistry. The researches carried on by the chemistry department of the Experiment Station are of great aid to the students who are engaged in the solution of scientific problems. Time and credit to be arranged with the instructor.

13. **Physiological Chemistry.** Given for students who are specializing in Agricultural Chemistry. Some of the subjects treated are: the carbohydrates, their metabolism in plant and animal organisms; the proteins, their value in the plant and animal economy; the relationship between the fats, carbohydrates and proteins; the importance of inorganic substances in the building of cells and tissues; the chemistry of the blood and tissues. Prerequisites, Chemistry 1, 3 and 6. Three recitations and two laboratory periods, second term. Two and one-half credits.

14. **Special Courses in Quantitative Analysis.** Courses are offered in special phases of quantitative analysis to students who are qualified.
   a—Water analysis.
   b—Food analysis.
   c—Soil analysis.
   d—Urine analysis.
   e—Gas analysis.
   Time and credit to be arranged with the instructor.

15. **Seminar.** Members of the chemical faculty and the
junior and senior students meet once a week for a discussion of assigned problems in chemistry.

DAIRYING.

Professor Caine III.
Assistant Professor Carroll.
Mr. S. L. Bingham.

1. Elements of Dairying. The secretion and composition of milk; testing for fat, acid and adulterants; dairy sanitation; pasteurization; separation; manufacture of butter and cheese on the farm. Two lectures and one laboratory period, second term. One and one-half credits.

2. Inspecting and Testing Dairy Products. A study of the Babcock test; acid tests; methods of detecting preservatives and adulterations in milk and its products. Prerequisites, Dairying 1 and one term's work in Chemistry. Two laboratory periods. Two credits.

3. Dairy Farm Management. Selecting cows by appearance and by test; herd management, care, feeding, breeding; arrangement and construction of dairy farm buildings; dairy farming as related to other branches of agriculture. Each student will be required to submit an original plan of a complete dairy farm, with figures showing its estimated cost, the expense of operating, and the profits to be derived from the business. Two hours, first term.

4. Buttermaking. A course designed to meet the needs of creamery men. Receiving, sampling and separation of milk; pasteurization; preparation and use of starters; ripening of cream; principles of churning, salting, working and packing butter; creamery accounting, construction of creameries. Prerequisite, Dairying 1. One lecture and two laboratory periods. Three credits.
5. CHEESEMAKING. A course for cheese factory operators. A study of the manufacture of the different kinds of cheese; the principles involved in the setting, cutting, heating, milling, salting, pressing, and curing of cheese; cheese factory construction. Prerequisite, Dairying 1. One lecture and one laboratory period of six hours. Three credits.

7. RESEARCH WORK. A study of various important dairy subjects; a digest of recent dairy work of the experiment stations. Only advanced students are allowed to take this course. One credit.

ECONOMICS.

Professor Thomas.
Assistant Professor Hendricks.

1. ELEMENTS OF ECONOMICS. This course endeavors to explain the laws of man's economic activity. It is, therefore, the basis of a scientific understanding of industrial conditions. Some of the topics studied are: economic wants, value, rent, wages, profits, interest. Three hours throughout the year. Three credits.

2. GENERAL ECONOMICS. This course treats practically the same subjects as Economics 1, but in a more thorough manner. Three hours throughout the year. Three credits.

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

4. ELEMENTS OF SOCIOLOGY. A general course in the foundations and principles of sociology, including a careful study of the social organs, social structure, and social activities. Three hours throughout the year. Three credits.

5a. MONEY. A general survey of the laws and forms of money and credit; the money question; the money market; expe-
rience and legislation of recent times. Three hours, first term. One and one-half credits.

5b. Banking. History and theory of banking in the United States and foreign countries; foreign exchanges. Three hours, second term. One and one-half credits.

6a. Public Finance. A course dealing chiefly with the principles underlying public expenditures, revenues, and administration. Three hours, first term. One and one-half credits.

6b. Taxation. A study of 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. One and one-half credits.


8. Economic History of the United States. The principal events of our political life are treated from the standpoint of their economic causation. The history of the tariff, money and banking, agriculture, manufacturing, etc., will be taken up. Three hours throughout the year. Three credits.

9. Marketing of Products. The methods now practiced in the organization of the selling branch of industrial and merchandising business. The principal subjects in this field are: publicity agency, advertising, forms and correspondence, credits and discounts. Two hours, throughout the year. Two credits.

10. 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. One and one-half credits.

11. Industrial and Commercial Law. A study of the elementary principles of law relating to common business transactions, including contracts, sales, promissory notes and bills of exchange, contracts of common carriers, agency, partnership and
corporations. Three hours throughout the year. Three credits.

12. AGRICULTURAL ECONOMICS. This course deals with the economic principles which underlie farm management, estate management, and agrarian legislation. Especially adapted to Western conditions. Three hours, first term. One and one-half credits.

15. A RESEARCH COURSE IN ECONOMICS. Time and credit to be arranged with the instructor.

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ENGLISH.*

PROFESSOR LARSEN.
ASSISTANT PROFESSOR PEDERSEN.
MISS HUNTSMAN.
MISS KYLE.
MRS. CLARK.
MISS MANNING.
MISS SMART.

3. ELEMENTARY COMPOSITION. First year high school English. Drill in reading simple classics, in grammar, spelling, punctuation, and in the use of the dictionary; written and oral composition, with special emphasis on the latter. Throughout the year the aim of all branches of the work is simply elementary correctness. Five hours throughout the year. Five credits.

4a. COMPOSITION AND CLASSICS. Second year high school English. Reading and careful study of classics; oral and written composition, in particular drill in paragraph writing; study of classic myths. An outline course in American Literature will furnish material for practice in note-taking. Five hours throughout the year. Five credits.

5a. COLLEGE ENTRANCE REQUIREMENTS AND COMPOSITION.

* A course is offered for students of mature years who are not prepared to do first year high school work. This course, English 1, consists of oral and written composition, classics, and grammar.
Third year high school English. A course in advanced high school composition, devoted to the different kinds of writing, with much drill in oral composition and debating. Further drill in note-taking is provided throughout the course. Three hours throughout the year. Three credits.

6. English Literature. History and development of English literature from the Anglo-Saxon period to the present day. The important authors are studied and a great deal of prescribed reading furnishes material for class-room discussions and written reports. The student is required to commit a number of poems or parts of poems to memory. Three hours throughout the year. Three credits.

7. College Rhetoric. A comprehensive course in College Rhetoric, with special attention to the forms of prose discourse. The practical work consists of themes, oral discussions, and debates. A certain amount of outside reading is prescribed. Two hours throughout the year. Two credits.

ELECTIVES.

Only five, or at the most six, elective courses will be given in any one year, hence, before registering, students will consult the head of the department. Prerequisites for all, except courses in elocution and public speaking, English 6 and 7.

8. The Elizabethan Drama. The origin and development of the drama in England; its history to the closing of the theatres in 1642. Three hours throughout the year. Three credits. Omitted in 1911-1912.

9. The Romantic Movement. The origin and growth of romanticism in English prose and poetry of the eighteenth and nineteenth centuries; foreign influences and parallels. Three hours throughout the year. Three credits.

10a. **SHAKSPERE.** A comprehensive study of his development as a dramatist, including the reading of all his plays and sonnets. Lectures and reports; supplementary reading. Three hours throughout the year. *Omitted in 1911-1912.*

11a. **THE SHORT-STORY.** A study of this special type of fiction, consisting of lectures and recitations, much outside reading, and the composition of stories. Three hours, first term. One or one and one-half credits.

11b. **THE MODERN DRAMA.** A study of the stage of to-day and of recent and living dramatists. Lectures, readings and reports. Three hours, second term. One and one-half credits.

12. **AMERICAN LITERATURE** from the Colonial times to the present, keeping in view contemporary development in England. Lectures, assigned readings, reports. Three hours throughout the year. Three credits.

13a. **THE ENGLISH NOVEL.** Its origin, development and most important types. The short-story receives some attention. Lectures, class-room discussions, readings and reports. Three hours, first term. One and one-half credits.

13b. **TYPES OF FICTION** in the eighteenth and nineteenth centuries. Lectures, assigned readings and reports. Three hours, second term. One and one-half credits.

14a. **MILTON and his contemporaries.** A careful study of the times, life and works of Milton, together with a survey of contemporary literature in England. Three hours, first term.

14b. **THE ENGLISH ESSAYISTS.** Lectures and reports, oral and written, on the essayists from Bacon to Stevenson. Assigned readings and seminars. Three hours, second term.

15. **GENERAL LITERATURE.** A study of world classics exclusive of those taken up in English Literature. The aim of this course will be to increase not merely the general information of the student, but also, and in particular, his general culture, by bringing him, at a mature stage of his development, in contact with the works of Homer, Virgil, Dante, the Greek dramatists, Hebrew literature, Cervantes, Goethe, and other men and works
of universal appeal. Two or three hours throughout the year. Two or three credits.

16a. ROMANTIC POETS OF THE EARLY NINETEENTH CENTURY. A study of the poetry of Wordsworth, Coleridge, Scott, Byron, Shelley, and minor poets. Lectures, readings and reports. Three hours, first term. One and one-half credits.

16b. STUDIES IN THE VICTORIAN POETS: Tennyson, the Brownings, Matthew Arnold, the Pre-Raphaelites, minor poets. Lectures, readings and reports. A continuation of English 16a. Three hours, second term. One and one-half credits.

17. THE SEVENTEENTH CENTURY. A study of the most important works produced in England between 1600 and 1700, due emphasis being placed on the periods following the Elizabethan. Three hours throughout the year. Three credits.

18. THE EIGHTEENTH CENTURY. A study of the main currents of English literature between 1700 and 1800, prefaced by a historical survey of the century. Chiefly a reading course, with due emphasis on the lives of the great writers. Lectures and reports. Three hours throughout the year. Given in 1911-1912.

19. THE NINETEENTH CENTURY. The culmination of romanticism, the rise of the novel, the Victorian poets and essayists. Lectures, readings and reports. Three hours throughout the year.

English 17, 18 and 19 will be given successively every three years.

20. ARGUMENTATION AND DEBATING. A course for college students offering a maximum of practice in debating, and argumentative writing and speaking. Three hours throughout the year. Three credits.

21. THE BIBLE AS ENGLISH LITERATURE. Lectures, assigned readings, and reports. Attention is given to the historical setting of the various books. Three hours throughout the year. Omitted in 1911-1912.

22. ELOCUTION. This course is designed for the development of the power of vocal expression and also as a general interpretative course in literature. A variety of the best literary selec-
tions are studied from the oral standpoint with the view of making them more intelligible to the reader and listener in their content and purpose. Prerequisite, English 4a. Three hours throughout the year. Three credits.

23. **Advanced Elocution.** In this course the principles of literary expression are applied in the main, to the interpretative study of dramatic literature. Shakspere and some of the modern dramatists are carefully studied interpretatively. Prerequisites, English 5a and 22. Two hours throughout the year. Two credits.

24. **Public Speaking.** Practical training in the various forms of public speaking: the formal address, the debate, the eulogy, the oration, the short, impromptu speech, the toast. The aim of this course is to train the pupil to think on his feet, and to deliver himself intelligently, logically, effectively, and with ease. Prerequisite, English 5a. Three hours throughout the year. Three credits.

25. **Journalism.** A study of magazine and newspaper writing with especial attention to college journalism. Two credits.

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**ENTOMOLOGY.**

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**Professor Titus.**
**Mr. Hoff.**

1. **Entomology.** This is an elementary course intended to give students a general knowledge of insects and their relation to man and his products, and to furnish simpler means of control. The life histories of those species most commonly affecting our crops, orchards and animals, and the common household pests, are studied. The students become familiar from actual specimens with the appearance of the more common forms. The relation of insects to diseases is briefly considered. Spraying apparatus,
grasshopper machines and various other devices used in practical entomology are exhibited and the student learns how to use them. The common insecticides are prepared in the laboratory or orchard. Three lectures a week, one term. One and one-half credits.

2. Entomology. The structure and classification of insects is taken up in detail. Students are required to collect, mount, and identify a collection of the local insects. The laboratory work consists of examinations of the anatomy of various insects, and the classification of collected specimens. Two lectures a week and one laboratory period throughout the year. Three credits.

3. Entomology. The subjects briefly considered in Entomology 1 are here given full treatment and especial attention is given to insects of the intermountain region. Students are required to do considerable reading in the literature of economic entomology and to become familiar with the methods used in other regions and their results. In the laboratory especial attention is given to the different stages of the principal economic insects in the local fauna, and to those insects likely to be introduced. Prerequisite, Entomology 1 or 2. Two lectures and one laboratory period, first term. One and one-half credits.

4. Entomological Literature. This course is designed for students intending to specialize in Entomology. Special insects are taken up and the literature relating to them carefully studied. Each student is expected to make a careful study of some particular insect. Conferences are held and the general history of entomology is covered in a series of lectures. Prerequisite, Entomology 1 or 2. This course may be taken for one term or throughout the year. One and one-half or three credits.

5. Advanced Entomology. A course in advanced entomology for those students intending to teach or to go into government or experiment station work. A special group will be assigned each student and he is expected to submit a thesis on the classification and general economic consideration of the group. Time and
credit will depend upon the amount of work the student gives to the subject.

EXTENSION DIVISION.

President Widtsoe.
Professor Merrill.
Professor Ball.
Professor Huntington.
Professor Stewart.
Professor Hogenson.
Professor Caine III.
Professor Batchelor.
Assistant Professor Turpin.
Mr. L. M. Winsor.
Instructor—Home Economics.

The Agricultural Extension Department was established for the purpose of disseminating scientific knowledge of agriculture and home economics among the people of the State. The following are some of the ways by which the Department is solving the problem of reaching the people:

Winter courses held in local communities lasting one week and covering the study of live stock, field crops, soils, and domestic science.

Special trains on which are discussed such subjects as dry-farming, dairying, hogs, soils and domestic science.

Farmers’ Institutes.

The Agricultural and daily and weekly press of the State.

Demonstration and experimental work.

Organizations, such as agricultural clubs, farmers’ co-operative organizations, commercial clubs and women’s clubs.
Schools, both secondary and common, county superintendents, teachers’ institutes, and junior work.

Correspondence courses in Agriculture and Home Economics.

Publications, such as bulletins, circulars and leaflets.

Correspondence covering all sorts of questions pertaining to the farm and home; also queries concerning books, free libraries, etc.

It will be seen at once that the Extension Department co-operates with every agency that will help in making better homes, better farms, and better boys and girls.

During the past year farmers’ institutes of one or more days have been held in the following counties of the State: Summit, Juab, Wasatch, Uinta, Salt Lake, Grand, San Juan, Garfield, Kane, Piute, Emery, Wayne, Cache, Utah, Morgan, Weber, Carbon.

Demonstrations of pruning, spraying and stock judging have been held in a few instances. Members of the Extension Staff have been present at various county fairs to act as judges:

The Department has also co-operated with the Oregon Short Line, the Salt Lake Route, and the Denver & Rio Grande Railroads in sending out the greatest train this intermountain country has ever known. This train was known as the “Dairy, Dry-Farm and Hog Special,” and traveled all through Utah and Idaho, making 113 stops and meeting approximately 61,433 people.

Through southern Utah stops of a day were made and three sessions were held in each town. Subjects to meet the needs of the various localities were discussed at these meetings. Separate sessions for the men and women were held in the forenoon and afternoon, and these sessions were devoted to lectures and demonstrations on practical problems of the home and farm. Conjoint evening sessions were held at which subjects of general interest were discussed.

The purpose of this train was to encourage the farmers of Utah and Idaho to breed better dairy cattle and raise more hogs and to use proper and scientific methods in dry-farming.
Through the action of the recent Legislature in increasing the appropriation for Extension work from $5,000 to $10,000 per year the Department will be able to do much more extensive work this year than ever before. The additional help needed so long will be available this year and one man will spend practically all his time on the Uinta Reservation, helping the new settlers there. Two other experts will work among the farmers in the State during the whole year.

Plans for next year include an even greater Special Train and larger itinerary and a better and more comprehensive scope of work.

Farmers' and Housekeepers' Schools will be increased in number, and wherever these are not practical Farmers' Institutes or one or more days will be held. Wherever the schools are held there must be a guarantee that at least 100 men and 50 women will be in attendance, who will together pay a fee of $125.00 to assist in defraying expenses.

The subjects discussed at these schools and institutes will meet the needs of the various localities. Separate sessions are held for the men and women in the forenoon and afternoon, these sessions being devoted to lectures and demonstrations on the practical problems of the farm and home. The evening sessions, at which there are lectures on subjects of general interest to the community at large, are held conjointly.

The subjects discussed at the men's sessions include soils, field-crops, insect pests, horticulture, diseases of farm animals, farmers' organizations, marketing farm produce, etc.

Improvements in housekeeping have not kept pace with the introduction of improved machinery on the farm, and the farmers' wives and daughters are beginning to see that the time has come when the kitchen, at least, must be remodeled and many appliances and conveniences added. Not only are we offering courses in this line of work at the College, but we are willing to bring these courses to the doors of those who cannot leave their homes.
In connection with the farmers' schools, a week's school in Domestic Science is given for the women. Practical lectures will be given on such subject as bread-making, home decoration, house plants, nursing the sick in the home, cheese and butter-making. Demonstrations on meats, soups, sauces, salads, creams, jellies and cakes form a very important phase of this work. The beneficial results of these schools are varied, such as exchanging ideas; learning how to do common, every-day duties in a simple manner; enabling us to economize in the most precious commodity we possess, viz., time; and learning how to do things from a scientific standpoint.

Arrangements have been made for an elementary course in Agriculture in the High Schools of the State. The State Board of Education has specified a course in elementary agriculture in those High Schools of the State outside of Salt Lake and Ogden, which receive State aid. This means that in every High School, Agriculture will be taught under the direction of the Extension Department of the Agricultural College. In these high schools plans are being made for lectures to parents in the evening as well as instruction for the children in the day time.

During the winter and spring members of the Department visit the larger cities of the State and the majority of Utah farmers. In the summer the territory remote from the railroad is visited, so that in the course of the year practically every farmer in the State is reached.

FORESTRY.

The United States Forestry Service and the College offer conjointly a winter course for forest rangers. This course, which lasts three months and gives special training in silviculture, surveying, mensuration, topographical drawing, etc., is fully described in the Winter Course Circular, a copy of which will be sent on application.

The growing demand for trained Western rangers and for-
esters makes this course especially significant. Those students who wish to enter a school of forestry should prepare themselves by taking courses either in the School of Agriculture or in the School of General Science. By proper selection in either or both of these they may obtain a very efficient preparation for the work in forestry.

GEOLOGY AND MINERALOGY.

Professor William Peterson.

1. Physiography. A course to develop observation of natural phenomena and give an appreciative knowledge of the work of nature as it concerns the changes of the earth's surfaces. Topics to be studied will include: the Earth as a body in space; surface structure; erosion; aggradation. The atmosphere and the influences of Physiographic conditions on the development of an agricultural region. A brief study will be made of the common rocks of Cache Valley. Two hours, throughout the year. Two credits.

2. General Geology. A course outlined to give students a comprehensive survey of the field covered by geological science; a general discussion of dynamic, structional, and historical geology. Particular attention is paid to the changes the earth's surface is now undergoing and the forces which produce them, as a means of interpreting the past. The course will include laboratory study of the common rocks and rock forming minerals, with special stress on the soil product resulting from rock disintegration. A part of the second term's work is given to a careful study of the geological development of the North American continent. Field trips to points of geological interest are required. The formations are studied and written reports made on the same. Three hours throughout the year. Three credits.

3. Economic Geology. The object is to give the student
some idea of the mineral resources of the United States. The work will include a careful study of the processes of preparation, and the economic value of coal, petroleum, natural gas, asphaltum, building stones, cement clays, mineral fertilizers, mineral water, fuller's earth, lithographic stone, precious stones, etc. Frequent reference will be made to the Reports of the United States Geological Survey. Prerequisites, Geology 2 and Chemistry 1. Three hours throughout the year. Three credits.

4. MINERALOGY. A descriptive and determinative study of the more important minerals. The student is furnished with excellent specimens of all minerals studied for both tests and comparisons. The first half-year is given to a discussion of crystallography and the physical properties of minerals. During the second half-year the work of the course is largely individual laboratory work in blow pipe analysis and determinative mineralogy. Prerequisites, Geology 2 and Chemistry 1. Two recitations and four hours laboratory, one term. One and one-half credits.

6. ADVANCED PHYSIOGRAPHY. This course is intended for students of college garde who wish to obtain a more complete knowledge of physiographic features and processes than can be given in Geology 1. A careful study of the physiographic development of the United States is taken up. Lectures will be supplemented by field work and laboratory work, and by considerable outside reading. Prerequisites, Geology 1 and 2, and Chemistry 1. Two hours, second term. One credit.

7. PETROLOGY. A systematic study of rocks and the rock-forming minerals. Particular attention is given to 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, 4, and Chemistry 1. Lectures, reading and laboratory work. Two hours throughout the year. Two credits.

8. FIELD GEOLOGY. Includes a complete study of the structural and areal geology of Utah and the Intermountain region. Methods employed in field work and the mapping of a region from geological field notes are carefully studied. During the year
the students will work out the geology of an assigned area. The special work of the year 1911-1912 will be the structural geology of Cache Valley. Lectures supplemented by reading. Prerequisites, Geology 2, 3, 4, and Chemistry 1. Two recitations, one afternoon field work or laboratory period throughout the year.

HISTORY.

ASSISTANT PROFESSOR DALE.
MR. D. E. ROBINSON.

1. ANCIENT HISTORY. An elementary course intended to give the student a broad view of Ancient Civilization and its relation to the modern world. Greek history occupies the first term; Roman history, the second. Three hours throughout the year. Three credits.

2. UNITED STATES HISTORY. A High School course intended for students who have had insufficient training in American history. The course is a study of social life, economic conditions, political development, and historical literature. Three hours throughout the year. Three credits. Omitted in 1911-1912.

3. ENGLISH HISTORY. A college course covering the history of England to the present time. Attention is paid to the history of English dependencies and the growth of the British Empire. No text-book is prescribed but students are required to supplement the lectures by readings from the standard English histories. Three hours throughout the year. Three credits.

4. MODERN EUROPEAN HISTORY. A College course covering the history of Continental Europe from the fifteenth century to the present day. The first four weeks are devoted to a summary of the period 800 A. D. to about 1450 A. D. This course is conducted by lectures, supplemented by readings from standard au-
thorities. Attention is paid to historical geography. Open to students who have had History 1 or who can otherwise satisfy the instructor of their fitness. Three hours throughout the year. Three credits.

5a. History of the American West. A College course dealing with the expansion of the American people westward. Special stress is laid on the economic factors at the bottom of this westward movement. Such topics as the Land Policy of the Federal Government, the Indian question, Immigration, Conservation, and the like, are discussed. The course is conducted by lectures which students are required to supplement by selected readings. A thesis on some special topic is required of each member of the course. Three hours, first term. One and one-half credits.

5b. Selected Topics in the Growth of the American West. An advanced college course open only to students who have attained grade A or B in History 5a or can otherwise satisfy the instructor of their fitness. This course is conducted by lectures and discussions in which the students are expected to take part. Three hours, second term. One and one-half credits.

6. English History and American Civics. A High School course. This course takes up English history and, unlike History 2, deals with American civics rather than with American history. Three hours throughout the year. Three credits.

7. History of Civilization. This course does not aim to cover in any detail the political history of the world; its purpose is rather to give a broad view of those factors in Ancient, Medieval and Modern civilization that have been of greatest permanent value in our own day. Attention is given to the history of Education, the Fine Arts, Philosophy, the Art of War, the growth of humanitarian undertakings, etc. Two hours throughout the year. Two credits.

See also Political Science 3, 11a, and 11b.
HOME ECONOMICS.

Professor Huntingdon.
Associate Professor Cooper.
Assistant Professor Cook.
Miss Florence M. Brown.
Miss Jean Crookston.
Miss Coral Kerr.

DOMESTIC SCIENCE.

1. Sanitation and Food. This course considers sanitation applied to food and the simple principles of cooking and serving. It includes a study of milk, canning of fruit, cooking of eggs, meat, vegetables, fruits, and batters; proper care of the kitchen and dining room and their furnishings; and the serving of a meal. Two laboratory periods throughout the year. Two credits.

2. Home Sanitation. A study of the sanitary considerations involved in the selection, construction and care of a house; the effect of sanitation upon the prevention of disease. Three hours, first term. One and one-half credits.

4. The Selection and Preparation of Food. This course considers the principles of cooking; the buying of foods; the preparation and serving of meals within a given sum of money. Prerequisite, Domestic Science 1. Two laboratory periods throughout the year. Two credits.

5. Home Care of the Sick, and Personal Hygiene. A practical course in home nursing and emergencies, intended to fit the student for those conditions in home life in which professional nursing is not required. Lectures will be given on personal hygiene, emergencies, and prevention of disease. Taken in combination with Domestic Science 6.

6. Laundering. Washing of materials and its effect on various fabrics; application of the principles of in practical laun-
dry work; modern appliances; machinery and methods used in steam laundries. Two lectures, second term. One credit.

7. **House Construction and Sanitation.** This course includes a study of the site, construction, heating, lighting, and ventilation of the house from the standpoint of sanitation; the planning of the house with reference to site, and cost of construction; and the remodeling of houses at small cost. The laboratory work will consist of planning houses; field work; and the finishing of woods. Prerequisite, Bacteriology 1. Two lectures, one laboratory period, first term. One and one-half credits.

8. **Household Art.** This course deals with principles of design and color applied to interior decoration and furnishing; floor coverings, and wall hangings; furniture designs; and the use of pictures. Prerequisites, Art 2, 4, and Domestic Science 7. Two lectures and one laboratory period, second term. One and one-half credits. Given by the Art Department.

9. **Household Administration.** This course deals briefly with the relation of the home to society; the modern tendencies in living; the cost of living; civic improvement; domestic service; and household management. A paper on some special topic is required. Prerequisites, Economics 2, Domestic Science 7, 8, 11. Three hours, second term. One and one-half credits.

10. **Foods.** The course includes lectures and laboratory work in the chemical composition of food; the action of heat, cold, acid, alkali upon foods; the preparation of foods; the preparation of meals and their cost. Prerequisites, Chemistry 1, Domestic Science 4. One lecture, two laboratory periods, second term. One and one-half credits.

11. **Dietetics and Nutrition.** This course deals with the principles of human nutrition and application of these principles to the diet of individuals and families under varying conditions of living. It includes a discussion of the metabolism of the food-stuffs; dietaries and their construction; the relation of diet to health; and the economy of food. Prerequisite, Domestic Science
10. Two lectures and one laboratory period throughout the year. Three credits.

12. **Advanced Foods.** This course deals with the economics side of food. A study is made of the food laws; economical methods of purchasing food; the cost of food as influenced by the cost of fuel and service; a comparison of food cooked at home and food bought ready to eat; labor saving devices for the preparation of food; and the investigation of food preparations on the market. Some lessons in advanced cooking are given. Prerequisites, Domestic Science 10, Economics 2, Chemistry 4. One lecture and two laboratory periods, first term. Three credits.

13. **Teachers' Course in Home Economics.** This course is designed for those students who expect to teach Domestic Science and Domestic Art. It includes a review of the Home Economics movement; a critical study of college, normal, and secondary school work from the standpoint of Domestic Science and Domestic Art; practical work in planning equipments and in estimating the cost; and in teaching with supervision. Three hours throughout the year. Three credits.

Opportunity for advanced work will be offered to those students who are qualified for it.

**DOMESTIC ART.**

1. **Plain Sewing. I.** Students are taught the fundamental principles of hand and machine sewing. Practice is given in the various hand stitches; in machine sewing; in the use and care of different makes of machines; the drafting of simple patterns; and the use of bought patterns. Each student makes an apron and suit of underwear. Eight hours, first term. One and one-half credits.

2. **Plain Sewing. II.** A continuation of course 1. The appropriate and economic use of materials is discussed. A study of the beginning of the textile industry from the historical and
economic standpoint. A shirt waist and a simple wash dress are made. Eight hours, second term. One and one-half credits.

3. Dressmaking. I. This course includes the making and use of patterns, and the choosing and economical cutting of materials. Each student makes a skirt and waist of woollen or silk material, and also a fitted lining. The students fit each other under the supervision of the instructor. Prerequisites, Domestic Art 1, 2, Art 2. Eight hours, first term. One and one-half credits.

4. Dressmaking. II. A continuation of course 3. Each student fits and finishes a one-piece gown. Eight hours, second term. One and one-half credits.

6. Applied Art. I. This course deals with the application of color and design to textiles; the teaching of the fundamental stitches of needle-work; the marking of household linen; French embroidery; the designing and making of a sofa pillow cover or table runner. Prerequisites, Art 2, 4, or Domestic Science 8. Six hours, first term. One credit.


11. Advanced Dressmaking. This course includes the study of materials; their economic, artistic, and hygienic values: dress as a factor in life; history of costume; modeling in paper and crinoline from copies and original designs; the making of two costumes. Prerequisites, Domestic Art 1, 2, 3, 4, Art 4 or Domestic Science 8. Lectures and laboratory work. Eight hours throughout the year. Three credits.

13. Millinery. This course includes the designing, construction, and trimming of hats; the making and alteration of wire and buckram frames; the covering of frames with silk, velvet, straw or other materials; selection of materials; their suitability and durability. Prerequisite, Art 2. Lecture and laboratory work. Four hours throughout the year. Two credits.

14. Textiles. I. The study of the beginning of the textile industry; examination of textile fibres under the microscope; and the testing of manufactured materials for adulteration. Prerequi-
sites, Chemistry 4, Botany 3, 4, Economics 2. Two lectures one laboratory period, first term. One and one-half credits.

15. TEXTILES. II. A continuation of course 14. The economic problems involved in the purchase of textiles, and the care of textiles in the household, including the effect of laundry re-agents upon them. Prerequisite, Domestic Art 14. Two lectures, one laboratory period, second term. One and one-half credits.

16. DESIGNING AND MODELING. This course includes line and design as adapted to various figures; copying of designs in crinoline or cambric; modeling and working out of original designs in correlation with Art 13. Prerequisites, Domestic Art 11, Art 2, 4, 13. Lectures and laboratory work. Four hours throughout the year. Two credits.

Opportunities for advanced work will be offered to those students who are qualified for it.

HORTICULTURE.

Professor Batchelor.
Mr. Zundel.

1. POMOLOGY. This course is intended to give the student a scientific and practical knowledge of commercial fruit growing, selection of orchard site, planting, care and harvesting of the crop. Three lectures per week, one term. One and one-half credits.

2. GENERAL HORTICULTURE. The course deals with the theory and practice of the most elementary phases of horticultural work, including a study of the fruit-bearing habits of the several horticultural crops, their propagation by cuttings, grafting, budding, etc.; the picking and packing of fruit. This is a foundation course for all other courses in horticulture. Prerequisite, Botany 1. One lecture and one laboratory period, first term. One credit.

3. BUSH FRUITS. A study of the propagation, culture, harvesting, and marketing of small fruits, such as strawberries, cur-
rants, raspberries, grapes, etc. Attention is given to the use of these fruits in the home. Prerequisite, Horticulture 2. Two lectures, first term. One credit.

4. Vegetable Gardening. The cultivation of vegetable crops, with a consideration of soils, fertilizers, planting, transplanting, rotation, harvesting, and storage of vegetable crops for commercial and home use. Two lectures and one laboratory period, second term. One and one-half credits.

7. Systematic Pomology. A systematic and detailed study designed to give the student a working knowledge of the varieties of fruits and nuts. Prerequisite, Horticulture 1. One lecture and one laboratory period, first term. One credit.

8. Landscape Gardening. A study of ornamental plants and methods of grouping the same in laying out public or private grounds. Students are given practical experience in the propagation and care of ornamental and house plants and the construction of decorative plans for special problems. Prerequisite, Horticulture 2. Two lectures, one laboratory period, second term. One and one-half credits.

9. Horticultural Literature. A critical study and examination of books, bulletins, reports, magazine articles, etc., dealing with special horticultural subjects. Prerequisite, Horticulture 1. Three hours, first term. One and one-half credits.

10. Investigation. Seniors in horticulture are allowed to carry on investigation in subjects in which they have special interest. Hours to be arranged with the instructor. Two credits.

11. History of Horticulture and Agriculture. A study is made of the history of the agriculture of the world. Beginning with the agriculture of mythical Egypt 2700 B. C., the development of this industry is traced through Greece, Rome, and England; and finally a general survey is made of the past and present-day agriculture of the United States. Three hours, second term. One and one-half credits.
IRRIGATION AND DRAINAGE.

PROFESSOR J. W. JENSEN.

1. Farm Irrigation and Drainage. This course is designed especially to meet the requirements of the students who can give but a limited time to this subject. Lectures are given on field irrigation and methods of farm drainage. Field excursions are made to farms which are being drained, and the practical side of the work is emphasized. Three hours, one term. One and one-half credits.

2. Irrigation Practice. The principles underlying irrigation and drainage in relation to crops. Periods in the growth of crops especially influenced by moisture environment; the operation of canal systems, including sources of supply and methods of securing and improving such supplies. Particular reference is made to canal management, methods of measuring and dividing water and preventing seepage losses. Prerequisite, Botany 1, and if possible, Agronomy 4. Three hours, second term. One and one-half credits.

3. Farm Drainage. A general treatment of the subject of drainage in the arid section with special reference to laying out and constructing various kinds of under drains. Three hours, second term. One and one-half credits.

5. Irrigation. This course includes surveys for farm and district drainage systems, with estimates of cost; a study of the best systems of operation to meet various conditions. State and federal laws relating to irrigation and drainage, including methods of appropriating water and forming irrigation and drainage districts, are studied. Three hours throughout the year. Three credits.
6. **Irrigation Research.** This course includes special investigations in connection with the Experiment Station work in irrigation or drainage.

7. **Irrigation Institutions.** Three hours, first term. One and one-half credits.

8. **Irrigation Management.** Three hours, second term. One and one-half credits.

9. **Water Supply and Sanitation.** Three hours, second term. One and one-half credits.

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**LIBRARY WORK.**

**Miss Smith.**

The subject includes the study of such general reference books as encyclopedias, dictionaries, atlases, cyclopedias of special subjects, indexes to periodicals and general literature, handbooks of information, and U. S. public documents with their special catalogues and indexes. Talks are given on the classification and cataloguing of books in the library, their arrangement on the shelves, and the use of the card catalogue. The object of the course is to familiarize the student with the library and to teach him how to obtain information quickly. One hour throughout the year. One credit.
2. **Algebra.** A thorough treatment of the fundamental operations, use of parentheses, factoring, highest common factor, lowest common multiple, fractions, simple equations, inequalities, involution and evolution, theory of exponents, radicals. Five hours throughout the year. Five credits.

3. **Algebra, Geometry.**
   (a) **Algebra.** A continuation of Mathematics 2, including a thorough drill in some of the important principles of higher algebra.
   (b) **Plane Geometry.** The general properties of polygons; problems of construction, and determination of areas; regular polygons and circles, with problems of construction, and methods of determining the ratio of the circumference to the diameter; maxima and minima. Special attention is given to the development of the power of logical thinking, and of accuracy and conciseness of expression.

   Five hours throughout the year. Five credits.

4. **Solid Geometry.** Three hours, one term. One and one-half credits.

5. **College Algebra.** Three hours, one term. One and one-half credits.

* A course is offered for students of mature years who are not prepared to do first year high school work. This course, Mathematics 1, consists principally of Arithmetic.
6. **Plane Trigonometry.** Three hours, one term. One and one-half credits.

7. **Analytic Geometry, Calculus.**
   
   (a) *Analytic Geometry.* The analytic geometry of the straight line, the circle and the conic sections, including a discussion of the general equations of the second degree, and some special examples in transcendental and higher plane curves.
   
   (b) *Differential Calculus.* The development of the fundamental principles and formulae of the differential calculus; applications to various problems in plane geometry and analysis, such as indeterminate forms, maxima and minima, curvature, expansions of functions in series, evolutes and involutes, and curve tracing.
   
   (c) *Integral Calculus.* Integration of various forms; development of the formulae of the integral calculus; application in rectification of curves, quadrature of plain and curved surfaces, cubature of volumes.

Prerequisites, Mathematics 4, 5, 6. Five hours throughout the year. Five credits.

8. **Differential and Integral Calculus, Advanced Course.** This course embraces the elements of the theory of functions of imaginary variables; the various methods of integration systematically treated; the elements of the theory of the elliptic functions; the mechanical and geometrical applications of the calculus treated more fully than in course 7; and some of the more important cases of differential equations. Prerequisite, Mathematics 7. Five hours throughout the year. Five credits.

9. **Descriptive Geometry.** Three hours, first term. Three credits.

10. **General Astronomy.** A first course in astronomy, consisting of lectures supplemented by field work with the telescope and transit. Three hours, one term. One and one-half credits.
MECHANIC ARTS.

Professor Drew.
Assistant Professor Hansen.
Mr. Pulley.
Mr. Newey.
Mr. Madsen
Mr Hughes.
Mr. Thornley.

TECHNOLOGY.

1. Materials. Lectures and recitations on the materials used by the pupil in his shop work. This is an introductory course given in connection with each of the shop courses and designed to give the pupil some knowledge of the materials he is handling in addition to that commonly obtained in the shop. The work will include the nature of the materials, their sources of supply, the processes involved in their production and, as far as possible, their comparative cost. Note books must be kept by the student and will occasionally be called for and examined by the instructor. One hour throughout the year. One credit.

3. Advanced Materials. This is similar to Technology 1 but more advanced to correspond with the work of the year. Shop note books as in course 1. Two hours throughout the year. One credit.

4. Properties and Characteristics of Materials. This is a course in the properties of materials in construction; preparation for use; tests of the strength and quality of materials; their
preservation. Tests are made of chains, welded bars, riveted joints, and various kinds of structural materials. Two hours throughout the year. Two credits.

**MECHANICAL DRAWING.**

2. Use of instruments, geometrical construction, construction and uses of scales and drawing of articles to be made by the student in the shop. Two hours throughout the year. One credit.

3. **ADVANCED MECHANICAL DRAWING.** Projection, intersections and graphical solutions of mechanical problems; special problems related to the line of shop work pursued by the pupil. Four hours throughout the year. Two credits.

4. Problems in design having reference to the student's specialty; shades, shadows and perspective. Five hours throughout the year. Two credits.

**SHOP MATHEMATICS.**

This work deals specifically with the problems of woodwork, forging and machine work.

1. The application of mathematics to the solutions of shop problems, arising in first year shop work. One hour throughout the year. One credit.

4. A review of the preceding year's work, in addition to the solution of problems arising in fourth year shop work. Three hours, one term. One and one-half credits.

**WOOD WORK.**

1. Elementary exercises in sawing, ripping, planing, mortising, dovetailing and general joinery, and the applications of these principles to simple furniture. Practice in making panels, sash and doors, and in simple cabinet work. Correct methods of
handling and using tools are emphasized. Twelve hours throughout the year. Four credits.

2. Plain cabinet making, wood turning and other machine work in wood and the construction of a standard carpenter’s tool chest. Twelve hours throughout the year. Four credits.

3. The principles and practice gained in the foregoing courses are applied to frame house building. Special parts, including doors, windows, casings, hips and valleys in roofs, are built in the shops. Twelve hours throughout the year. Four credits.

4. The students in this course are allowed to specialize either in cabinet making, including carving and finishing, or in the inside finishing of houses, including work in stair building. The selection and design of the work is left largely to the student. Each design must be complete in itself and must be finished during the year. Twelve hours throughout the year. Four credits.

WOOD CARVING.

An elective course has been arranged in this subject for those who wish to pursue it. The work consists of elementary exercises in the cutting of straight, curved and angle lines, incised lines in simple designs, sharpening and setting of tools, flat carving without grounding, flat leaf, and simple designs in low relief. Freehand drawing is included.

This is followed in the second, third and fourth years by advanced work leading up to the study of historic ornament and parts of the human figure. Ten hours throughout the year. Four credits.

FORGING AND CARRIAGE BUILDING.

1. Elementary forging with exercises so arranged as to illustrate fundamental principles: Drawing, upsetting, bending, twisting, splitting and welding are taught by making such ar-
articles as staples, bolts, timber hangers, grab hooks, clevises, stay-chains, door-hinges, and blacksmith's tongs. Practice is given in steel and iron welds and general work in steel forging and dress- ing. Chisels, punches, reamers, hammers, wrenches and other tools, andirons and other ornamental iron articles are made by the students. Accuracy of method is insisted upon. Twelve hours throughout the year. Four credits.

2. Advanced exercises in iron and steel: Axle and tire setting, resetting and tempering springs, repairing of farm machinery and wagons, advanced forging. Twelve hours throughout the year. Four credits.

3. Wood work preparatory to carriage building, actual carriage building, including wood work and ironing. Twelve hours throughout the year. Four credits.

4. Advanced carriage work concluding with the construction of an approved vehicle. Prerequisite, course 3. Twelve hours throughout the year. Four credits.

HORSE SHOEING.

2. Elementary practice in making shoes, preparing the hoof and fitting; study of horse anatomy; repairing of farm tools and machinery; the making of a set of farrier's tools. Prerequisite, Forging 1. Twelve hours throughout the year. Four credits.

3. Advanced horse shoeing. Making of special shoes intended to correct interference and other defects of gait; treatment of quarter and toe cracks, club foot, contracted heels, thrush and other diseases of the feet, with a study of means for their prevention. Prerequisite, course 2. Twelve hours throughout the year. Four credits.

4. The application of the principles already learned to the actual work of shoeing. The student will be required to take charge of the shoeing of some particular horses and keep their feet and legs in good condition. Twelve hours throughout the year. Four credits.
AGRICULTURAL COLLEGE OF UTAH.

FOUNDRY WORK.

1. Practice in molding and general foundry work, including iron and brass casting. The patterns chosen are mainly those for castings used in the shops. The course is intended to give a general knowledge of foundry practice. Six hours, first term. Two credits.

2. Special molding, emphasizing such work as will be required in connection with work in machine design and construction. Six hours, second term. Two credits.

MACHINE WORK.

1. Elementary forging, concluding with the making, dressing and tempering of lathe and planer tools; special work in chipping, filing, hand polishing, and scraping; preliminary exercises in drilling, planing, straight and taper turning, accompanied by instruction in the care and use of machinery. Twelve hours throughout the year. Four credits.

2. Exercises in boring and chucking in the lathe, thread cutting, polishing and milling. Cone pulleys, bearings, stuffing box glands, grindstone shafts, gear wheels, shaft couplings, jackscrews, tap wrenches, and other small tools and machine parts. Twelve hours throughout the year. Four credits.

3. The work of this course comprises the making of mandrels, taps, twist drills, counterbores, reamers, milling cutters, forming and cutting dies, with practice on the grinding machine; the building of machine tools and machine parts. Ten hours throughout the year. Four credits.

4. Actual machine tool construction. A two and one-half horse-power gasoline engine was built in 1911. Twelve hours throughout the year. Four credits.
METEOROLOGY.

A general discussion of the atmosphere, its composition and movements, the nature of storms, winds, frosts, dews, clouds, fogs, etc. A special study will be made of the methods of weather observations and predictions, and frost warnings. Two lectures per week, one term. One credit.

MILITARY SCIENCE AND TACTICS.

CAPTAIN CAFFEY.

Military instruction at the College is not a matter of choice with the authorities or the students. The Congress of the United States requires this instruction in return for large appropriations; it is thus an obligation—an obligation in return for the advantages of free education.

The aim of the department is to qualify young men for positions as commissioned officers of volunteer forces. All able-bodied male students of the College are enrolled in the Military Department, during three years of their course.

A uniform must be worn by all students when at drill. Arrangements have been made by which the uniform can be obtained through the Secretary of the College at actual cost, about fifteen dollars. The attention of students intending to enter college is called to the fact that this uniform has been found more serviceable than civilian clothes of the same price, and that all must be prepared to order the uniform when they enter.

The organization conforms to the company and battalion organization of the regular army. The officers and non-commissioned officers are selected after competitive examinations. In general the officers are taken from the higher college classes, the non-commissioned officers from the lower.
A cadet band is maintained under the immediate charge of the Director of the School of Music. It appears with the cadet battalion at parades, reviews and other ceremonies.

**PRACTICAL.**

*Four hours a week throughout the year. Required of all students during three years of their attendance. Infantry—school of the soldier, squad, company and battalion. The ceremonies of guard mounting, parade, and review; advance and rear guard; outposts; practice marches; target practice.*

For target practice the college has excellent indoor and outdoor ranges. The U. S. government gives an ample allowance for ammunition.

**THEORETICAL.**

*One hour a week throughout the year.*

First Year (in the Military Department.)

- Infantry Drill Regulations.

Second Year.

- Infantry Drill Regulations (Review.)
- A Military Primer.
- Small Arms Firing Regulations.

Third Year.

- Military Field Engineering.
- Field Service Regulations.
- Lectures on the Art and Science of War.

The satisfactory completion of both the practical and the theoretical work prescribed for any one year entitles the student to one credit.
AGRICULTURAL COLLEGE OF UTAH.

ORGANIZATION 1910-1911.

Major, Earl Goodwin.
Adjutant, Virgil L. Minear.
Lieutenant, Ernest Mohr.
Quartermaster, W. G. Woolley.
Sergeant Major, Edwin J. Holmgren.
Color Sergeant, George M. Fister.
Drum Major, J. F. Woolley.

COMPANY A.

Captain, L. A. Richardson.
First Lieutenant, Ernest Mohr.
Second Lieutenant, John O. Pence.
First Sergeant, Amos P. Jones.
Corporals—O. Griffin, J. Osmond, B. Bullen, N. Sammons, R. Hughes, B. Hansen.
Musician, J. Raleigh.

COMPANY B.

Captain, Taylor Carmichael.
First Lieutenant, J. Carter.
Second Lieutenant, Ralph Wyatt.
First Sergeant, F. Barber.
Corporals, B. Bullen, A. Eames, W. Muir, S. Morgan.

COMPANY C.

Captain, David Sharp, Jr.
First Lieutenant, R. Barber.
Second Lieutenant, L. Pond.
First Sergeant, B. Morris.
MODERN LANGUAGES AND LATIN.

PROFESSOR ARNOLD.
ASSISTANT PROFESSOR G. C. JENSEN.

FRENCH.

1. **First Year French.** Chardenal, *French Grammar*, and Guerber, *Contes et Legendes*, form the basis of the grammatical and conversational work. Three or four modern texts are read, such as Dumas' *Les Trois Mousquetaires*, About's *Le Roi des Montagnes*, and Halevy's *L'Abbe Constantin*. Four hours throughout the year. Four credits.

2. **Second Year French.** Francois' *French Composition* is the basis of a grammatical review and of writing in French. Lavisse's *Histoire de France* is used as subject matter for conversation, while the work in reading consists in translating works of the more important of the nineteenth century authors. During the second term a weekly composition in French is required. Prerequisite, French 1. Three hours throughout the year. Three credits.

3. **Third Year French.** Four elective one-hour courses. 
   a—Conversation. 
   b—Rapid reading of French periodicals on horticulture, stockbreeding, or domestic science subjects. 
   c—Rapid reading of French classics, varying each year. 
   d—French periodicals on French home life. 

   Course b may be given in two divisions to suit those who elect it. Prerequisites for all the courses, French 2. Students may elect any part or all of French 3. Each division counts one credit.
GERMAN.

1. **First Year German.** Ball, *Elements of German* and Bernhardt, *German Composition*, form the basis of the grammatical and written work. Reading begins with Wenckebach's *Glück Auf*, and is followed by three or four easy texts. Several poems are memorized. Four hours throughout the year. Four credits.

2. **Second Year German.** Bernhardt, *German Composition* is finished and work in original German composition is begun. Many texts are rapidly read, selected from the works of Riehl, Sudermann, Wildenbruch, Freytag, Heine, and other nineteenth century authors, together with one scientific text. Three hours throughout the year. Three credits.

3. **Third Year German.** Three elective one-hour courses.
   a—Conversation.  b—Scientific German.  c—Rapid reading of German classics, varying each year. Prerequisites for a, b, and c, German 2. Students may elect any part or all of German 3. Each division counts one credit.

SPANISH.


2. **Second Year Spanish.** Ford, *Spanish Composition*; Picatoste, *Historia de Espana* as basis for conversation; rapid reading of such modern texts as Valera's *Commendador Mendoza*; Galdos, *Dona Perfecta* and *Electra*; Breton, *Quien as ella?*; and one classical play. Three hours throughout the year. Three credits.

LATIN.

1. **First Year Latin.** Collar and Daniel, *First Year Latin*; *Viri Romae*. Drill on essentials of Latin grammar; comparison with English grammar, acquiring of vocabulary; English words
derived from Latin; selections for reading. Four hours throughout the year. Four credits.

2. **SECOND YEAR LATIN.** Greenough, D’Ooge and Daniel, *Second Year Latin*; D’Ooge, *Latin Composition based on Caesar*; Bennett, *Latin Grammar*; selected readings from Part I, *Second Year Latin*; an equivalent of four books of selections from Caesar; oral and written composition. Attention is given to etymology of English derivatives and cognates; accuracy and facility in translating into idiomatic English; sight translation. Three hours throughout the year. Three credits.

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**MUSIC.**

**Professor Thatcher.**
**Mrs. Linnartz.**
**Mr. William Spicker.**

The following courses in music are arranged with the twofold idea of laying a sure foundation for professional work in this art, and of fitting the student for the proper appreciation and fullest enjoyment of the classic compositions of famous composers. Theory of music as exemplified in the study of harmony, counterpoint and musical form, will be considered, and as far as possible urged upon the student in both vocal and instrumental departments. Ensemble work may be had in the quartette, choir, band, and orchestra organizations. These advantages, together with those furnished by free concerts and recitals, constitute the strongest features of a Conservatory Course and will be open to all students of the College.

*A certificate of graduation will be given upon the completion of any of the following courses:*

**FOUR YEAR PIANO COURSE.** Completion of regular four years’ work as prescribed, together with one year of vocal music and one year of harmony.
FOUR YEAR VOCAL COURSE. Completion of four years' regular prescribed work, together with two years of piano and one year of harmony.

FOUR YEAR VIOLIN OF VIOLONCELLO COURSE. Completion of four years' regular prescribed work, together with two years of piano and one year of harmony.

FOUR YEAR COMPOSITION COURSE. Regular prescribed work, together with three years on piano, violin, cello, or cornet.

VOICE CULTURE AND ART OF SINGING.

FIRST YEAR. Breathing, study of vowel forms, elementary vocalization, easy songs.

SECOND YEAR. Vocalization, solfeggio, songs.

THIRD YEAR. Vocal studies, songs, arias, solo parts in easy operas, first year harmony, piano.

FOURTH YEAR. Advanced studies, English classic songs, German and Italian songs, arias, second year piano.

PIANOFORTE.

FIRST YEAR. Position, hand culture, rhythm, scales, elementary work from Gurlitt, Beyer, Czerny and others.

SECOND YEAR. Easy studies and sonatinas by Bertini, Clementi, Kuhlau, Kohler, Loeschorn.

THIRD YEAR. Studies by Czerny, Dorn, Hiller, Gobbért, and Cremer, Sonatas by Mozart, Haydn and others; first year voice and singing.

FOURTH YEAR. Studies by Cremer, Kessler, Clementi, Gradus ad Parnassum, solo pieces by Schubert, Mendelssohn, Chopin, Raff and others; first year harmony.

ORGAN.

FIRST YEAR. A standard method, and easy studies and pieces.

SECOND YEAR. Parallels piano course; carefully selected pieces suitable for the organ.
VIOLIN.

First Year. David, School, Book I. Sitt Opus 35.
Second Year. David, School, Book II. Studies by Kayser; easy solos and duets; orchestra practice; first year piano.
Third Year. Kreutzer, 42 Exercises; studies by Fiorilli; orchestra; second year piano.
Fourth Year. Rode, 24 exercises; Rovilli, 12 exercises; Garinni, 24 exercises; Dont, Gradus; concertos, Viotti, Mendelssohn, etc.; orchestra; first year harmony.

VIOLONCELLO.

First Year. Part of Kummer's method for Violoncello with easy pieces.
Second Year. Balance of Kummer's method; easy studies by Dotzauer; easy pieces; orchestra practice, first year piano.
Third Year. Studies by Dotzauer; pieces moderately difficult; cello parts to easy trios and quartettes; orchestra; second year piano.
Fourth Year. Balance of studies by Dotzauer; pieces of more advanced grades; cello parts to trios, quartettes, etc.; orchestra; harmony.

CORNET AND OTHER BRASS INSTRUMENTS.

The course of study for these various instruments corresponds in general with that for string instruments.

MANDOLIN AND GUITAR.

First Two Terms. First, second and third position; part of a standard method, and easy selections.
Last Two Terms. Balance of method; more advanced work and ensemble playing.
HARMONY AND COMPOSITION.

First Year. Goetschius, *Tone Relations*; first year of piano or other instruments.

Second Year. Advanced harmony; simple counterpoint; melody writing; second year piano, violin, etc.

Third Year. Counterpoint; smaller forms; vocal and instrumental; third year piano, violin, etc.

Fourth Year. Large forms; instrumentation.

GENERAL COURSES.

The following work is open to students, without charge.
Choir and Choral Society, five hours a week. Two credits.
Band and Orchestra, four hours a week. One credit.

TUITION.

*Term of fifteen weeks, payable in advance. Special students in music pay no entrance fee.*

Beginners, $15.00. Advanced, $22.50.

Piano. *Private Instruction.*
Fifteen Lessons, $15.00. Thirty Lessons, $25.00.

Reed Organ. *Private Instruction, Fifteen Lessons.*
First year, $10.00. Second year, $15.00.

Beginners, $15.00. Advanced, $22.50.

Violoncello. *Private Instruction, Fifteen Lessons, $10.00.*
AGRICULTURAL COLLEGE OF UTAH.

CORNET AND BAND INSTRUMENTS.

Class Lessons. One lesson a week................. $ 7.50
Private Instruction. One lesson a week............. 10.00

MANDOLIN AND GUITAR.

One lesson a week................................. $ 7.50
Two lessons a week............................... 10.00

HARMONY.

Class of three; two lessons a week................ $10.00

PHYSICAL EDUCATION.

PROFESSOR TEETZEL.
MISS ————

It is the aim of the Department of Physical Education to foster hygienic habits among the students, and so direct their exercise that they may have a physical development fit to support and make efficient the mental development which they seek in attending the institution. This is accomplished, first, by giving them the needed opportunity for gymnastic exercises; second, by encouraging athletic games, thereby stimulating an interest in their physical efficiency and in the pleasure of physical activity; and, third, by giving them a guiding knowledge of the principles of physical education. All the work is based upon careful physical examinations.

PHYSICAL EDUCATION FOR MEN.

1. ELEMENTARY COURSE. Open to all male students of the institution. Four hours a week. One credit.
(a) Gymnasium Exercises. These consist of vigorous drills with dumb bells, Indian clubs, wands, etc., and gymnasium games under the supervision of the instructor.

(b) Lectures. The gymnasium work is supplemented by lectures on personal hygiene, the physiology of exercise, first aid to the injured, etc.

PHYSICAL EDUCATION FOR WOMEN.

Two years of Physical Education are required of all High School girls of the College. Beginning with the students entering in 1910-11 all college women will be required to take at least one year's work in Physical Education. The work of the courses will be arranged to be both recreative and creative; remedial and preventive. As nearly as possible the work will be individual and based upon a physical examination. Students will be required to wear the regulation gymnasium suit and shoes. The suits may be ordered through the Secretary of the College at an actual cost of about four dollars.

1. Physical Education for Beginners. The object of this course is to establish a good posture and to strengthen vital functions. The work will consist of Swedish body building work —some tactics, folk dancing, and indoor and outdoor games.

2. Physical Education. This work is for second-year students, and will be built upon the first year's work. It will also include work with light apparatus, advanced folk dancing, Gilbert dancing, basket ball and tennis.

3. Physical Education. An advanced course for college women. It will consist of regular formative and corrective body building work, supplemented by folk and classic dancing, apparatus work and games. It will also include lecture work on the hygiene of exercise and the principles of physical development.
AGRICULTURAL COLLEGE OF UTAH.

PHYSICS.

Professor West.

1. Elementary Physics. A first course in the elements of physics, presented mainly from the experimental standpoint. The lectures are illustrated by numerous demonstrations and students spend two periods a week in the laboratory. Prerequisites, Mathematics 2, 3. Two recitations and two laboratory periods throughout the year. Four credits.

2. General Physics. Lectures, demonstrations, recitations, and laboratory work, covering the whole field of physics. Prerequisites, Physics 1 and Mathematics 6. Four hours throughout the year. Four credits.

3. Mechanics, Molecular Physics, and Heat. Classroom and laboratory work covering selected topics in Mechanics and Heat; also the kinetic theory, capillarity, solutions, electrolysis, and elementary thermodynamics. Prerequisites, Physics 1 and Mathematics 6. Three hours throughout the year. Three credits.

4. Electricity, Light, and Sound. This course is of the same grade and is conducted in the same manner as Physics 3. In addition to the work in Electricity and Sound, defractions, dispersion, interference, and polarization of light, as well as radioactivity and the electron theory, will be taken up. Three hours throughout the year. Three credits.

5. Agricultural Physics. Lectures, recitations, demonstrations, and laboratory work covering, as far as time will permit, the practical applications of the principles of Physics to the problems of every-day life with special reference to agriculture. Prerequisite, Physics 1. Three hours throughout the year. Three credits.

6. Household Physics. A course in applied physics giving special attention to problems in the household. Prerequisite, Physics 1. Three hours, first term. One and one-half credits.
1. **Government.** Our European ancestors, origin of states and state institutions, English and American governments compared, state and foreign service, the treasury, money and coinage, banks, the post office, and executive departments, legislation, the constitution, federal and state powers, political parties, party issues. Three hours throughout the year. Three credits.

2. (a). **Constitutional Law.** The Constitution; the rise of the American Union; distribution and powers of the government; powers of Congress; powers of the Executive; the judicial departments; checks and balances of governments; government of the territory; the admission of new states; amendments to the constitution; civil rights and their guarantees.

(b). **International Law.** Persons concerned, rights and duties of state, territorial jurisdiction, jurisdiction on high seas, agents of the state, nationality, treaties, settlement of disputes, war and its effects, military occupation, hostilities, neutrality, contraband, blockade.

Three hours throughout the year. Three credits.

3. **Comparative Constitutional Government.** A comparative study of the various systems of government,—Greece, Rome, Great Britain, Germany, France, Switzerland, United States. Three hours, second term. One and one-half credits.

4. **Contracts.** Assent and the necessity of its communications; offers and their expiration or revocation; consideration; contracts under seal; joint and several contracts; conditional contracts; duress; discharge of contracts by rescission; novation, accord and satisfaction; release. Three hours throughout the year. Three credits.
5. **Bills and Notes.** Formal requisites; acceptance; indorsement; transfer; overdue paper; extinguishment; obligations of parties; checks; Negotiable Instruments Law. Three hours, first term. One and one-half credits.

6. **Agency.** The creation and termination of the relation; nature and execution of the authority; rights and liabilities under the relation; particular classes of agents. Three hours, second term. One and one-half credits.

7. **Corporation Law.** Private corporations; creation of corporations; implied and granted powers of corporations; powers and liabilities of directors, stockholders, etc. Municipal corporations; legislative control; rights and remedies of creditors; liabilities; power to contract on credit, borrow money and issue negotiable instruments. Three hours, first term. One and one-half credits.

8. **Partnerships.** Nature of a partnership, its purposes, and members; creation of partnerships; nature of partners’ interest; firm name and good-will; mutual rights and duties of partners; liability of partners; dissolution; debts; distribution of assets; limited partnerships. Three hours, second term. One and one-half credits.

9. **Sales.** Subject-matter of sale; executory and executed sales; bills of lading; fraud; warranty; Statute of Frauds. Given in connection with Political Science 10.

10. **Mortgages.** Form of mortgage—legal and equitable, the substance of the mortgage; elements of the mortgage; situation of the mortgagor and mortgagor. Three hours, first term. One and one-half credits.

11a. **Municipal Government.** This course is a study of municipal government both in Europe and in the United States with a discussion of the problems of the large city and the small city, municipal ownership, municipal finance, proposed systems of reform, such as the Commission Plan, and other questions of this sort. Each student is required to study in detail the government
of some one American city. Three hours, first term. One and one-half credits.

11b. Colonial Government. This course takes up the history of colonial enterprise from ancient times to the present, but most stress is laid on modern colonial history. The methods of colonial administration used by the various European nations and by the United States are discussed. Three hours, one term. One and one-half credits. Omitted in 1911-1912.

12. Irrigation Law or the Law of Waters. This course will treat of the right of appropriation, natural and artificial water courses, limitations of use, protection of rights, disposal of rights, percolating water, distribution of water, etc. Three hours, one term. One and one-half credits.

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STENOGRAPHY AND TYPEWRITING.

Mr. Canute Peterson.

STENOGRAPHY.

1. Stenography. This is a thorough, practical course, designed for the two-fold purpose of preparing the student for actual work and also laying a foundation for rapid reporting. After the principles of the text are mastered, the dictation of various forms of commercial correspondence is taken up. Graham's Phonography, one of the most successful of the many excellent Pitmanic systems, is taught. Five hours throughout the year. Five credits.

2. Stenography. After a thorough review of the text books, advanced correspondence work, legal documents, speeches, specifications, editorial matter, court testimony, etc., are taken up.
This course is designed especially for students who desire to qualify for the United States Civil Service, or for reporting work. A study of public meetings, court procedure, and reporting of public meetings, and trials. Much transcribing on the typewriter is required. Three hours throughout the year. Three credits.

3. STENOGRAPHY. An advanced course in Stenography. Three hours throughout the year. Three credits.

**TYPEWRITING.**

1. TYPEWRITING. Beginning with simple exercises, the student learns correct fingering and the proper manipulation of the typewriter. Special attention is given to the care and mechanism of the machine. Five hours a week throughout the year. One credit.

2. TYPEWRITING. A special course for those taking Stenography. In addition to the elementary principles given in Typewriting 1, students make copies of correctly written correspondence, legal forms, etc.; also personal composition and dictation. As soon as moderate speed is attained, the work includes transcription of shorthand notes. One hour daily throughout the year. Two credits.

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**VETERINARY SCIENCE.**

**PROFESSOR FREDERICK.**

1. VETERINARY ELEMENTS. This course considers briefly elementary anatomy and physiology and the common ailments of domestic animals; the most prevalent contagious diseases, their causes, symptoms, course, diagnosis and treatment; measures for their prevention and cure. The course is taught by lectures and text books, and illustrated by observation and practice in the free clinics held each week. The aim is to teach the student how to
care for and treat the animals on the farm. Three hours, one term. One and one-half credits.

2. **Comparative Anatomy.** This course is prepared for students in agriculture, especially in Animal Husbandry. It consists of lectures, illustrated by skeletons and prepared specimens and models. Each student is required to perform practical work in dissection. Two lectures and one laboratory period, throughout the year. Three credits.

3. **Obstetrics.** This course includes a review of 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. One and one-half credits.

5. **Clinics.** Free clinics will be held at the hospital, and all students taking any of the courses in Veterinary Science are required to attend and assist in the work. This work consists of free examination and treatment of the numerous cases brought in, representing all diseases common to this section of country and furnishing the clinic with abundant material for observation and actual application of the work of the class room. Hours and credits to be arranged.

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**Zoology.**

**Professor Titus.**
**Mr. Hoff.**

2. An elementary course in general Zoology in which by means of lectures and required reading the student obtains a general knowledge of the subject and the relation of the various groups of animals to one another. Dissections of preserved specimens are made in the laboratory, especial emphasis being laid on the gross structure and the relation of the organs in the different
groups. The work commences with the Protozoans, the lowest of the invertebrates, and progresses upward through the various groups to the higher vertebrates. Two recitations and one laboratory period, throughout the year. Three credits.

3. Principles of Breeding and Eugenics. Lectures and required reading on the principles underlying breeding. Especial attention is given to recent discoveries in laws of heredity and their relation to variation, selection, adaptation, and other factors of this character. Prerequisite, Zoology 2. Three lectures, one term. One and one-half credits.

5. Histology. Lectures and laboratory work on the development of the elementary-tissues and a study of their microscopic structure; methods of preparing, staining and mounting different tissues. Each student is expected to prepare some tissues and mount them for study. Prerequisite, Physiology 1. One lecture and two laboratory periods throughout the year. Three credits.

6. Embryology. Especial attention will be paid to the development of the chick, and at least one of the higher animals will be studied. The general principles of development will be considered, beginning with the cell and following the development through the formation of the various membranes. Lectures will be given on the development of the sense organs and other structures. Prerequisites, Physiology 1 and Zoology 2. Two recitations and one laboratory period, one term. One and one-half credits.

7. Higher Vertebrates. This course deals with the classification and study of the more common intermountain forms. Enough comparative anatomy work is given to make the anatomical classification intelligible. Prerequisites, Physiology 1 and Zoology 2, 5. Two lectures and one laboratory period, one and one-half credits.

8. Economic Zoology. Lectures on the food-habits of our common birds and injurious mammals and a thorough study of their relations to agricultural interests and of the methods of
proper control. Prerequisite, Zoology 2. Three hours, one term. One and one-half credits.

9. Animal Parasites. Lectures and laboratory work on the principal external and internal parasites of man and the domestic animals; the relation of these to different diseases. Prerequisites, Zoology 2 and Entomology 1. Two recitations and one laboratory period, one term. One and one-half credits.
Alumni Association.

In April, 1899, President J. M. Tanner suggested to Miss Anna Beers, '98 and Charles A. Jensen, '97 the desirability of organizing all the degree graduates of the College into an Alumni Association. This was the initial step in the direction of the present firmly established organization. Miss Beers and Mr. Jensen prepared, and sent to each of the 34 graduates, a circular letter urging attendance at Commencement, 1899, in order to form a society. They met with a very hearty response. Meetings were held June 13 and 14, 1899; a constitution and by-laws were discussed and adopted; and the following officers were elected: President, Lewis A. Merrill, '95; secretary, Anna Beers, '98; treasurer, Arthur Stover, '99. The following alumni have served as presidents of the association:

- 1899-1900, Lewis A. Merrill, '95.
- 1900-01, John T. Caine, Jr., '94.
- 1901-02, William H. Homer, Jr., '00.
- 1902-03, Rose Homer, '00.
- 1904-05, Joseph W. Jensen, '00.
- 1905-06, Robert Stewart, '02.
- 1906-07, Charles Walter Porter, '05.
- 1907-08, James Christian Hogenson, '99.
- 1911-12, Charles Walter Porter, '05.

The U. A. C. Alumni Association includes all graduates who hold degrees from any of the courses in the College. It now numbers 239 living members. William Bernard Dougall, '94, Mrs. Anna Sponberg McCarty, '97, John Simon Baker, '99, and Stanley Crawford, '00, have died. With three exceptions all of the 243 graduates have received the degree of Bachelor of Science (B. S.), the particular course being specified in the diploma. In the first two classes, the degree of Bachelor of Civil Engineering (B. C. E.) was given, and W. B. Dougall, '94, A. B. Larsen, '94, and W. F. Culmer, '95, were graduated with this degree.
MEMBERS OF U. A. C. ALUMNI ASSOCIATION.

ARRANGED IN ORDER OF SENIORITY OF GRADUATION.

1894.

1. Bernard Dougall (Deceased).
2. Robert W. Erwin...703 Bank of Commerce Bldg., St. Louis, Mo.
   Manager Missouri Iron Co.
3. Martha Hoyt ..................................Marion, Utah
   Married; Mrs. William Myrick.
4. Andrew B. Larsen...........315 South 4th West, Provo, Utah
   U. S. Department of Interior, Reclamation Service.
5. John T. Caine, Jr...............................Logan, Utah
   Registrar, Utah Agricultural College.
6. Joseph E. Shepard................................Logan, Utah
   Cashier, Cache Valley Banking Company.

1895.

7. Will Fred Culmer........273 East 1st South, Salt Lake City, Utah
   Manager, Culmer Glass and Paint Co.
8. Lewis A. Merrill...........512 Vermont Bldg., Salt Lake City
   Director Extension Division, Utah Agricultural College.

1896.

9. Willard S. Langton........33 West 126th St., New York City
   Professor of Mathematics, U. A. C. (On leave of absence).
    Professor of English, U. A. C.
11. Walter W. McLaughlin.............................Logan, Utah
    U. S. Department of Agriculture. In charge of Irrigation
    Investigations.
12. Amos N. Merrill. (M. S., U. of Illinois, '08)........Provo, Utah
    Professor of Agriculture, B. Y. U.
13. Lorin A. Merrill...............................Logan, Utah
    Recorder, Logan Temple.
14. Josiah L. Rhead..............................Coalville, Utah
    U. S. Department of Interior, Reclamation Service.
15. Joseph R. Thomson..............................Richmond, Utah
    Farming and Engineering.
16. John H. Bankhead..........................Logan, Utah
   Assistant Cashier, Thatcher Banking Co.
17. Olla Barker ..............................51 South 27th St., Ogden, Utah
   Married; Mrs. Moroni Holroyd Thomas.
18. Clara Louisa Foster......................Logan, Utah
   Married; Mrs. E. P. Bacon.
   Farming. Superintendent of Schools, Bear Lake County.
20. Hermoine S. Hart........................Bloomington, Idaho
   Married; Mrs. D. E. Roberts.
21. Thomas H. Humpherys.......................Logan, Utah
   County Surveyor, Cache County.
   Field Inspector, American Beet Sugar Company.
23. Victoria Lundberg.......................Box 184, Pocatello, Idaho
   Married; Mrs. John A. Anderson.
24. Rachel N. Maughan.......................Logan, Utah
   Married; Mrs. Fred J. Wadsworth.
25. Charles Pond ..............................Lewiston, Utah
   Manager Lewiston Supply Company.
26. Mamie Smith ..............................Dingle, Idaho
   Married; Mrs. F. J. Larsen.
27. Anna Sponberg (Deceased).
   Married; Mrs. Anna S. McCarty.
28. John Stewart (B. S., U. of California, '03)........Logan, Utah
   U. S. Dept. of Agriculture, Irrigation Investigations.
29. Osborne J. P. Widtsoe (A. M., Harvard, '05).........
   397 North Main St., Salt Lake City
   Principal, High School Dept., L. D. S. University.

1898.

30. Frederick H. Atkinson....................Baker City, Oregon
   Bookkeeper, Oregon Lumber Company.
31. Anna Beers .............................2210 Jefferson Avenue, Ogden, Utah
   Married; Mrs. Wm. H. Petty.
32. Mabel Bullen ............................229 East Wesley, Wheaton, Illinois
   Married; Mrs. Wilford Van Cott Young.
33. Joel J. Harris.........................Adams Avenue, Ogden, Utah
   Ogden City Schools.
34. A. Ray Irvine (M. D., Medico-Chirurgical, '06) ... Salt Lake City Medicine. Eye and ear specialist.

1899.

35. John S. Baker (Deceased).
36. William D. Beers .................................... Salt Lake City
   State Road Engineer.
37. Ethel Bullen ...................................... Richmond, Utah
   Married; Mrs. George O. Webb.
38. Robert J. Gordon................................. Lethbridge, Alberta, Canada
   Dominion Surveyor and Engineer.
39. James C. Hogenson (M. S. A. Cornell, '06). Salt Lake City, Utah
   Agronomist, Extension Division, Utah Agricultural College.
40. Fred W. Merrill .......................... Grafton, North Dakota
   U. S. Dept. of Agriculture, Division of Dairying.
41. Joseph H. Peterson .................. Huntsville, Utah
   Farming.
42. William Peterson ........................ Logan, Utah
   Professor of Geology, Utah Agricultural College.
43. Walter W. Simmonds ....................... Salmon City, Idaho
   Commerce.
44. Arthur P. Stover (M. S., U. of California, '05)........
   .............................................. 207 Tilford Bldg., Portland, Ore.
   U. S. Dept. of Agriculture. In charge of irrigation investiga-
   tions, Oregon.

1900.

45. Stanley Crawford (Deceased).
46. Burton P. Fleming (M. E., Cornell, '06) ........ Iowa City, Iowa
   Professor of Mechanical Engineering, U. of Iowa.
47. Rose Homer .......................... 397 North Main St., Salt Lake City
   Married; Mrs. Osborne J. P. Widtsoe.
48. Wm. H. Homer, Jr. (M. S. A., Cornell, '06). Pleasant Grove, Utah
   Horticulture.
49. Joseph W. Jensen (S. B., Harvard, '01) ........ Logan, Utah
   Professor of Irrigation and Drainage, U. A. C.
50. Elizabeth C. Maughan ........................ Paris, Idaho
   Instructor in Home Economics, Fielding Academy.
   U. S. Dept. of Agriculture, Bureau of Soils.
52. George F. Taylor (S. B., Harvard, '04) ........
   ............................................. 89 Whitmore Sq., Adelaide, Australia
   Missionary.
53. Blanche Cooper (B. S., Columbia, '05) .......... Logan, Utah
   Associate Professor, Home Economics, U. A. C.
54. Esther Evans ........................................ Malad, Idaho
   Married; Mrs. Richard B. Davis.
55. Mary Almeda Perry ......................... Vernal, Utah
   Homesteading, Taft, Utah.
56. Charles B. Smith .................. Box Y, Twin Falls, Idaho
   Engineering.
57. Mattie E. Stover (B. S., U. of California, '05) ............
   2918 Benvenue Av., Berkeley, Cal.
   Chemist, California Agricultural Experiment Station.

1902.

58. Amanda Holmgren ......................... 15th Infantry, U. S. Army
   Married; Mrs. Eugene Santschi.
59. Edward P. Pulley ............................ Logan, Utah
   Instructor in Machine Work, U. A. C.
60. Robert Stewart (Ph. D., U. of Illinois, '09) ........ Logan, Utah
   Professor of Chemistry, U. A. C.

1903.

61. John T. Caine III (M. S. A., State Coll. of Iowa, '05) ....
   (Bellagio, Utah)
   Professor of Animal Husbandry, U. A. C.
62. Thomas C. Callister, Jr ..................... Fillmore, Utah
   Engineering.
63. Charles F. Brown .......................... Newhouse Bldg., Salt Lake City
   Engineering.
64. Grace Fisher B. S., Columbia, '08) .... Menominee, Wisconsin
   Instructor in Domestic Science, Stout Training School.
65. Lydia Holmgren ................. Brigham, Utah
   Instructor in Domestic Science, Brigham High School.
66. Josephine Maughan .................. Asherville, Kansas
   Married; Mrs. O. F. Wells.
67. May Maughan .................................. Provo, Utah
   Married; Mrs. Chester Snow.
68. Ambrose P. Merrill (M. S., U. of Michigan, '07) .... Provo, Utah
   Engineering.
70. Frederick D. Pyle............................Mitchell, Nebraska U. S. Dept. of Interior, Reclamation Service.

1904.

71. Edmund Crawford .........................Castle Dale, Utah Cashier, Emery County Bank.
72. Geneva Egbert ..........................Farmington, Utah Married; Mrs. J. W. Chase.
73. Joseph E. Greaves (Ph. D., U. of California, '11)......Logan, Utah Associate Professor of Chemistry, U. A. C.
75. Roy F. Homer...............................Nephi, Utah Principal, High School. Superintendent City Schools.
76. William M. Jardine .........1020 Houston St., Manhattan, Kansas Professor of Agronomy, Kansas Agricultural College.
77. Charles A. McCausland..................Logan, Utah Bookkeeper, Cache Valley Banking Company.
78. Samuel P. Morgan.........................Franklin, Idaho Farming and Engineering.
79. Elmer G. Peterson (Ph. D., Cornell, '11)..............Logan, Utah Professor of Bacteriology and Physiology, U. A. C.
82. Franklin L. West (Ph. D., U. of Chicago, '11).......Logan, Utah Professor of Physics, U. A. C.
83 Ray B. West (B. S., Cornell, '06)......10 E. 26th N., Portland, Ore. Engineering.

1905.

86. Verne P. Bowman.........................726 27th St., Ogden, Utah
87. Blanche E. Caine .................................. Salt Lake City, Utah
   Instructor in Domestic Science, High School.
88. John L. Coburn .................................. Logan, Utah
   Financial Secretary, U. A. C.
89. Eva Farr ........................................ Ogden, Utah
   Instructor in Home Economics, High School.
90. John J. Frederickson .............................. Malad, Idaho
   Commerce and Real Estate.
   U. S. Dept. of Agriculture, Forest Service.
92. Hazel Love ...................................... 1675 South West Temple, Salt Lake City
   Married; Mrs. Carlos Dunford.
93. Ella Maughan ..................................... Whitney, Idaho
   Married; Mrs. Alvin C. Hull.
94. Melvin C. Merrill ............................... 302 Mitchell St., Ithaca, New York
   Student, Graduate School, Cornell University.
95. Eugenio S. Peirce ................................. Shaw Bldg., Boise, Idaho
   Engineering.
96. Charles W. Porter (A. M., Harvard, '09) .... Logan, Utah
   Assistant Professor of Chemistry, U. A. C.
97. Samuel Grover Rich ............................... Burley, Idaho
   Cashier, State Bank of Burley.
98. Roy Rudolph ...................................... Logan, Utah
   Pharmacist.
99. Mary E. Rudolph ................................. Kalispell, Montana
   Married; Mrs. Robert C. Hillman.
100. James H. Smith ................................. 1506 Monroe St., Spokane, Washington
    Engineering.
101. Joseph E. Taylor ............................... 512 Vermont Bldg., Salt Lake City
    State Horticultural Inspector.
102. John H. Tuttle ................................. 1123 Boston Bldg., Salt Lake City
    U. S. Dept. of Agriculture, Irrigation Investigations.

1906.

103. Irvin Allred ..................................... Manila, P. I.
    Engineering, Bureau of Lands.
104. Mildred Forgeon ............................... Burley, Idaho
    Married; Mrs. Samuel Grover Rich.
105. Minnie Peterson ............................... 44 West 2nd North, Salt Lake City
    Married; Mrs. Emil B. Isgreen.
    U. S. Dept. of Agriculture, Bureau of Plant Industry.
107. James L. Kearns .................................. Park City, Utah
    Principal, City High School.
108. Fred Mathews .................................. Springville, Utah
    Instructor in Mathematics and Wood Work, High School.
109. Frank Moench .................................. Evans Bldg., American Falls, Idaho
    Engineering.
110. Aaron Olsen .................................. Logan, Utah
    Accountant, Anderson & Sons Lumber Co.
111. Preston G. Peterson .......................... Provo, Utah
    Secretary, Iron King Consolidated Mining Company.
112. Inez Powell (B. S., Columbia, '09) .............. Cedar City, Utah
    Instructor in Domestic Science, Branch Normal.
113. Ben F. Riter, Jr. (L. L. B., Columbia, '10) ......
    ................................................ 258 13th St., Portland, Ore.
    Law.

1908.

114. Heber Carver .................................. Brigham, Utah
    Engineering.
115. Alva Hansen .................................. 2617 Grant Avenue, Ogden, Utah
    Instructor in Commerce, Weber Academy.
116. George R. Hill ................................. 122 Linden Avenue, Ithaca, New York
    Student, Graduate School, Cornell University.
117. Russell K. Homer .............................. R. F. D. Provo, Utah
    Horticulture.
118. Ellis Hudman .................................. Evanston, Wyoming
    Engineering.
119. C. Nephi Jensen (M. S. A., Cornell, '11) ....... Logan, Utah
    Professor of Botany, U. A. C.
120. Hans E. Jensen ................................. Ephraim, Utah
    Instructor in Commerce, Snow Academy.
121. Eunice E. Jacobsen ................................ Paris, Idaho
    Instructor in English, Fielding Academy.
122. Eugene Santschi ................................ 15th Infantry, U. S. Army
    Lieutenant, 15th Infantry.
123. William L. Walker ............................. Logan, Utah
    Instructor in Mathematics, U. A. C.
<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Address</th>
<th>Details</th>
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<tr>
<td>124</td>
<td>Hugh Robert Adams</td>
<td>Logan, Utah</td>
<td>Assistant Professor of Animal Husbandry, U. A. C.</td>
</tr>
<tr>
<td>125</td>
<td>Jessie C. Anderson</td>
<td>New Harmony, Utah</td>
<td>R. F. D., Murray, Utah Farming.</td>
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<td>126</td>
<td>Earl Bennion</td>
<td>R. F. D., Murray, Utah</td>
<td>Assistant Professor of Animal Husbandry, U. A. C.</td>
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<td>127</td>
<td>Ernest Carroll</td>
<td>Logan, Utah</td>
<td>Assistant Professor of Animal Husbandry, U. A. C.</td>
</tr>
<tr>
<td>128</td>
<td>Philip Vincent Cardon</td>
<td>Nephi, Utah</td>
<td>U. S. Dept. of Agriculture, Bureau of Plant Industry</td>
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<tr>
<td>129</td>
<td>William P. Day</td>
<td>Brigham, Utah</td>
<td>Horticulture.</td>
</tr>
<tr>
<td>130</td>
<td>Robert J. Evans</td>
<td>Ithaca, New York</td>
<td>Student, Graduate School, Cornell University.</td>
</tr>
<tr>
<td>132</td>
<td>Leon Fonnesbeck</td>
<td>926 East 62nd St., Chicago, Ill.</td>
<td>Student, Law School, Chicago University.</td>
</tr>
<tr>
<td>133</td>
<td>Nellie Hayball</td>
<td>R. F. D., Murray, Utah</td>
<td>Married; Mrs. Earl Bennion.</td>
</tr>
<tr>
<td>134</td>
<td>Ernest P. Hoff</td>
<td>Logan, Utah</td>
<td>Instructor in Zoology, Utah Agricultural College.</td>
</tr>
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<td>135</td>
<td>John R. Horton</td>
<td>Lindsay, California</td>
<td>U. S. Dept. of Agriculture, Bureau of Entomology.</td>
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<tr>
<td>137</td>
<td>Ethel Lee</td>
<td>Hoytsville, Utah</td>
<td>Instructor in Domestic Science, Weber Academy.</td>
</tr>
<tr>
<td>138</td>
<td>Lizzie O. McKay</td>
<td>Ogden, Utah</td>
<td>Instructor in Agriculture, High School.</td>
</tr>
<tr>
<td>139</td>
<td>Daniel L. Pack</td>
<td>Spanish Fork, Utah</td>
<td>Instructor in Agriculture, High School.</td>
</tr>
<tr>
<td>140</td>
<td>Ina R. Stratford</td>
<td>Brigham, Utah</td>
<td>Instructor in Home Economics, High School.</td>
</tr>
<tr>
<td>141</td>
<td>George M. Turpin</td>
<td>Logan, Utah</td>
<td>Assistant Professor of Poultry Husbandry, U. A. C.</td>
</tr>
<tr>
<td>142</td>
<td>Cadmus Wallace</td>
<td>Smithfield, Utah</td>
<td>Manager, Cache Valley Orchard Company.</td>
</tr>
<tr>
<td>143</td>
<td>Edward H. Walters</td>
<td>2201 Elsworth Ave., Berkeley, Calif.</td>
<td>Student, Graduate School, University of California.</td>
</tr>
</tbody>
</table>
    U. S. Dept. of Agriculture, Forest Service
145. Rodney Chase Allred...............Nephi, Utah
    Instructor in Agriculture, High School.
146. Alando B. Ballantyne...............St. George, Utah
    Foreman Southern Utah Experiment Station.
147. Charles Elmer Barrett..............Stone, Idaho
    Engineering.
148. Helen L. Bartlett................361 East 3rd Ave., Salt Lake City
    Instructor in Domestic Science, Public Schools.
149. Ethel Bennion......................Salt Lake City, Utah
    Instructor in Domestic Science, L. D. S. University.
150. Asa Bullen........................78 Dana St., Cambridge, Mass.
    Student, Law School, Harvard University.
151. Ray B. Curtis......................Victor, Idaho
152. Veda Dixon........................Payson, Utah
    Instructor in Domestic Science, High School.
153. Florence I. Dudley................Logan, Utah
154. Joseph Grue.......................Farmington, Utah
155. Odessie L. Hendricks..............Lewiston, Utah
156. Charles Tarry Hirst................Logan, Utah
    Chemist, Utah Experiment Station.
157. Alice Kewley......................Nephi, Utah
    Instructor in Home Economics, High School.
158. Orville L. Lee....................Hyde Park, Utah
    Farming.
159. Amy J. Leigh......................Rexburg, Idaho
    Instructor in Home Economics, Ricks Academy.
160. Orson G. Lloyd....................15 East Gorham St., Madison, Wis.
    Student, Graduate School, University of Wisconsin.
161. Alexander M. McOmie................Tucson, Arizona
    Extension Department, University of Arizona.
162. Amelia Manning....................Logan, Utah
    Instructor in English, Utah Agricultural College.
163. Inez Maughan......................Logan, Utah
164. Lavinia Maughan...................Logan, Utah
165. William B. Oldham................Rexburg, Idaho
    Instructor in Agriculture, Ricks Academy.
166. James D. Pence .................................. Mountain Home, Idaho
Manager Wilkins Live Stock Company.

167. Susannah Perry .............................. Ephraim, Utah
Instructor in Home Economics, Snow Academy.

168. Dean F. Peterson ............................. Manassa, Colorado
Instructor in Agriculture, High School.

169. Erastus Peterson ............................ Wells, Nevada
Manager, Pacific Land Reclamation Company.

170. Willard L. Peterson ......................... Nephi, Utah
Instructor in Commerce, High School.

171. Aaron Rasmussen .......................... Rexburg, Idaho
Instructor in Commerce, Ricks Academy.

172. William Corlett Riter ........................ Salt Lake City, Utah
Student, University of Utah.

173. Vincent A. Sadler ........................... Logan, Utah
Assistant Entomologist, Utah Experiment Station.

Student, Graduate School, University of California.

175. Winnifred Smith .............................. Logan, Utah
Instructor in Domestic Science, New Jersey Academy.

176. Nora Sonne ................................. Rigby, Idaho
Instructor in Home Economics, High School.

177. James H. Stewart ............................ Richmond, Utah
Techer, City Schools.

178. Robert H. Stewart ........................... Wellsville, Utah

179. Franklin A. Wyatt .......................... Wellsville, Utah
Farming.

The Class of 1911, numbering 64 graduates, brings the total membership of the Association up to 243.
Seventeenth Annual Commencement.

June, 1910.

GRADUATES WITH DEGREES.

Bachelor of Science in Agriculture.

Alfred Evan Aldous ........................................ Ogden
Rodney Chase Allred ........................................ Lehi
Alando Bannerman Ballantyne .............................. Collinston
Charles Elmer Barrett ...................................... Logan
Orson Gunnel Lloyd ......................................... Logan
Alexander Monteith McOmie ................................. Lehi
William Brown Oldham ..................................... Paradise
Dean Freeman Peterson ...................................... Scipio
Erastus Peterson ............................................ Richfield
William Corlett Riter ...................................... Logan
Vincent Alff Sadler ........................................ Salt Lake City
James Haslam Stewart ...................................... Wellsville
Robert Haslam Stewart ...................................... Wellsville
Franklin A. Wyatt ........................................... Wellsville

Bachelor of Science in Home Economics.

Helen Louise Bartlett ...................................... Salt Lake City
Ethel Bennion ................................................ Taylorstown
Veda Dixon ..................................................... Payson
Florence Irene Dudley ...................................... Logan
Odessa Lapreal Hendricks ................................ Logan
Alice Kewley ................................................... Logan
Amy Jane Leigh ............................................... Cedar City
Amelia Manning ............................................... Slaterville
Susannah Ellen Perry ........................................ Cedar City
Winnifred Irene Smith ...................................... Logan
Nora Sonne ..................................................... Logan

Bachelor of Science in Commerce.

Asa Bullen ..................................................... Richmond
Ray Barker Curtis ........................................... Victor, Idaho
Orville Leonard Lee ......................................... Hyde Park
James Dunbar Pence .......................................... Mt. Home, Idaho
Willard Larsen Peterson ................................... Mendon
Aaron Frederick Rasmussen ................................ Clarkston
AGRICULTURAL COLLEGE OF UTAH.

Bachelor of Science in General Science.

Joseph Grue .................................................. Plain City
Charles Tarry Hirst ........................................ Logan
Inez Maughan ................................................ Logan
Lavinia Maughan ............................................. Logan
Arthur Herbert Saxter ........................................ Logan

GRADUATES WITH CERTIFICATES.

Home Economics.

Catherine Pearl Adams ...................................... Layton
Zina Rachel Cole ............................................. Willard
Lucile Crookston ............................................ Greenville
Wanda Reese .................................................. Benson

Commerce.

Violet Maurine Greenhalgh ................................ Logan
James Jones Haslam ......................................... Wellsville
Wilford Frederick Heyrand ................................ Logan
Gilbert Lionel Janson ........................................ Gunnison
Millie Adina Mattson ....................................... St. Charles, Ida.
Vera Mae Madsen ............................................. Logan
Rachel Annie May Munro ................................... Logan
Mamie Cornelia Nelson ..................................... Logan
Lorin Todd Oldroyd .......................................... Glenwood
Vernon Willard Pace ......................................... Price
Clara Matilda Peterson .................................... Logan
Marion Taylor ................................................ Logan

Mechanic Arts.

John Alfred Allred .......................................... Manti
Heber Jarvis Webb .......................................... St. George
Eighteenth Annual Commencement.

June, 1911.

GRADUATES WITH DEGREES.

Bachelor of Science in Agriculture.

Animal Husbandry.

Ephraim Fielding Burton ......................... Ogden
Lashbrook Laker Cook ................................ Garden City
Frederick Froerer ................................ Huntsville
Heber Chase Hancock ................................ Ogden
Clarence E. Jones ................................ Cedar City
J. Carlos Lambert .................................. Kamas
John S. Paddock ................................... Wisdom, Mont.
John K. Olsen ..................................... Ephraim
Earl Robinson .................................... Richmond

Agronomy.

Junius James Andrews ................................ Logan
Albert Elijah Bowman ................................ Ogden
Ivan Rolla Egbert .................................. Logan
Anant Madhav Gurjar ................................ Logan
James A. Holden .................................... Logan
William Leroy Jones ................................ Logan
George L. Morrison ................................ Franklin, Ida.
August Levi Nelson .................................. Crescent
James Wiley Sessions ................................ Marion, Idaho
Charles Snow, Jr ..................................... Teasdale

Horticulture.

Wilbur Mansfield Ball ................................ Logan
Harry Percy Barrows ................................ Ogden
Leroy Beagley ........................................ Nephi
Abram C. Cooley ...................................... Salt Lake City
Alma Jonathan Knapp ................................ Logan
Mathew Anton Nelson ................................ Logan
Jesse Larsen Peterson ................................ Petersboro
William Littlefair Quayle .......................... Logan
Alfred Edgar Stratford ............................... Ogden
Joseph Angus Willey ................................ Layton
Robert Lecourn Wrigley ........................................ American Fork
George Lorenzo Zundel ........................................ Brigham City

Irrigation and Drainage.

Luther Murkins Winsor ........................................ Enterprise

Agricultural Chemistry.

Frank Martin Brown ........................................ Liberty, Ida.
Merrill O. Maughan ........................................ Logan
Ephraim Thomas Ralph ........................................ Brigham City
Edward Hamilton Watson ...................................... Salt Lake City
John S. Welch ........................................ Paradise

Entomology.

Clifton George Busby ........................................ Salt Lake City

Bachelor of Science in Home Economics.

Anna Corneel Christensen .................................... Salt Lake City
V. Elizabeth Frazee .......................................... Salt Lake City
Elda Havenor ................................................ Salt Lake City
Leah Ivans .................................................. Salt Lake City
Lucille Jensen ................................................. Brigham City
Coral L. Kerr ................................................ Logan
Annie Nibley ................................................ Logan
Clara Ford Parrish .......................................... Centerville
Georgiana Hope Smurthwaite ................................. Ogden

Bachelor of Science in Commerce.

James Arthur Armstrong ...................................... Mt. Pleasant
Lars Samuel Christensen ...................................... Hyde Park
Newel Howland Comish ........................................ Mt. Home, Utah
Canute Peterson ............................................. Logan
Henry Thomas Plant .......................................... Richmond

Bachelor of Science in General Science.

Edgar Brossard ................................................ Logan
Ira Arnold Cole ............................................... Logan
August L. Hansen ............................................. Logan
Sarah Huntsman ............................................... Logan
Walter Alexander Lindsay .................................... LaGrande, Oregon
Clyde Walter Lindsay ........................................ Ogden
George Leroy Reese ........................................ Benson
David Earle Robinson ......................................... Logan
James Tovey ................................................... Malad
Diamond Wendelboe ............................................ Logan
Vern C. Woolley ............................................. Grantsville

GRADUATES WITH CERTIFICATES.

Commerce.

Walter Barber ................................................. Logan
May Larsen ..................................................... Mendon
Edward J. Laurenson ......................................... Downey, Ida.
David J. Nelson ............................................... Logan
Pearl Peterson ................................................ Richmond

Home Economics.

Jeanetta Agnes Adams ......................................... Logan
Susie Holden .................................................... Logan
Teenie Nyman .................................................... Greenville
Irene Izatt ...................................................... Logan

Mechanic Arts.

Herbert R. Barber ............................................. Logan
James W. Phillips ............................................. Morgan
James T. Steed ................................................ Tremonton
List of Students, 1910-11.

In the following list A. stands for Agriculture; H. E. for Home Economics; C. for Commerce; M. A. for Mechanic Arts; G. S. for General Science; M. for Music.

<table>
<thead>
<tr>
<th>GRADUATES</th>
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<tbody>
<tr>
<td>Hirst, Charles Tarry (G. S.)</td>
<td>Logan</td>
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<tr>
<td>Manning, Amelia (G. S.)</td>
<td>Slaterville</td>
</tr>
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<td>Maughan, Inez (G. S.)</td>
<td>Logan</td>
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<td>Maughan, Lavinia (G. S.)</td>
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<td>Saxer, Arthur H. (G. S.)</td>
<td>Logan</td>
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<td>Alder, Byron (A.)</td>
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<td>Alder, John Alfred (A.)</td>
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<td>Allen, Ethan LaSalle (A.)</td>
<td>Kingston</td>
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<td>Andrews, Junius James (A.)</td>
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<td>Armstrong, James A. (C.)</td>
<td>Mt. Pleasant</td>
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<td>Ball, Wilbur Mansfield (A.)</td>
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<td>Barrows, Harry Percy (A.)</td>
<td>Brigham City</td>
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<td>Beagley, LeRoy (A.)</td>
<td>Nephi</td>
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<td>Beers, Harry Charles (A.)</td>
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<td>Bowman, Albert Elijah (A.)</td>
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<td>Brossard, Edgar (G. S.)</td>
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<td>Busby, Clifton George (A.)</td>
<td>Salt Lake City</td>
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<td>Christensen, Anna (H. E.)</td>
<td>Salt Lake City</td>
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<td>Christensen, Samuel Lars (C.)</td>
<td>Hyde Park</td>
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<td>Cole, Truman J. (C.)</td>
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<td>Cole, Ira A. (G. S.)</td>
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<tr>
<td>Cook, Lashbrook Laker (A.)</td>
<td>Logan</td>
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<tr>
<td>Comish, Newel Howland (C.)</td>
<td>Mt. Home</td>
</tr>
<tr>
<td>Cooley, Abraham C. (A.)</td>
<td>Salt Lake City</td>
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<td>Cowley, Anna Leona (H. E.)</td>
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Holden, James A. (A.) ........................................................................ Logan
Ivins, Leah (H. E.) ........................................................................ Salt Lake City
Izatt, Angus (A.) ........................................................................ Logan
Jensen, Lucille (H. E.) ...................................................................... Brigham
Jennings, David (A.) ...................................................................... Hinckley
Jones, Clarence E. (A.) .................................................................. Cedar City
Jones, William Leroy (A.) ................................................................. Wellsville
Kerr, Coral (H. E.) ........................................................................ Logan
Knapp, Alma J. (A.) ........................................................................ Moroni
Lambert, John Carlos (A.) ................................................................. Kamas
Lindsay, Clyde Walter (G. S.) ......................................................... Ogden
Lindsay, Walter A. (G. S.) ................................................................. Logan
Maughan, Merrill O. (A.) ................................................................. Wellsville
Mechan, Joseph (G. S.) ..................................................................... Logan
Merrill, Charles Leo (A.) .................................................................. Richmond
Morrison, George L. (A.) ................................................................. Logan
Nelson, August L. (A.) ..................................................................... Sandy
Nibley, Annie (H. E.) ...................................................................... Logan
Olsen, John K. (A.) .......................................................................... Ephraim
Paddock, John Stephen (A.) .............................................................. Wisdom, Mont.
Parrish, Clara (H. E.) ...................................................................... Centerville
Peterson, Canute (C.) ...................................................................... Logan
Peterson, Jesse Larsen (A.) ............................................................... Petersboro
Plant, Henry Thomas Jr. (C.) ............................................................ Richmond
Quayle, William Littlefair (A.) ....................................................... Logan
Ralph, Ephraim T. (A.) .................................................................... Brigham
Rich, Juanita (G. S.) ........................................................................ Benson
Robinson, Earl (A.) .......................................................................... Blackfoot, Ida.
Robinson, David Earle (A.) .............................................................. Richmond
Sessions, James Wiley (A.) .............................................................. Marion, Ida.
Smurthwaite, Georgiana H. (H. E.) ................................................ Ogden
Snow, Charles Jr., (A.) .................................................................. Teasdale
Stratford, Alfred E. (A.) ................................................................. Ogden
Tovey, James C. (G. S.) .................................................................. Malad, Ida.
Watson, Edward H. (A.) .................................................................. Salt Lake City
Welch, John Shaw (A.) ..................................................................... Paradise
Wendelboe, Diamond (G. S.) .......................................................... Logan
Willey, Joseph Angus (A.) ................................................................. Layton
Wilson, John (A.) ............................................................................ Eden
Winsor, Luther Murkins (A.) ............................................................ Enterprise
Woodbury, Harrison Bray (A.) ....................................................... Granger
Woolley, Vern C. (G. S.) ................................................................. Grantsville
Wrigley, Robert Lecourn (A.) .......................................................... American Fork
Zundel, George Lorenzo (A.) .......................................................... Brigham

JUNIORS.

Aldous, Sidney E. (G. S.) ................................................................ Huntsville
Andrews, Michael J. (C.) ................................................................. Logan
Ball, Isaac B. (A.) ........................................................................... Salt Lake City
Barber, Marie (G. S.) ...................................................................... Logan
Barrett, Adeline Patti (C.) ........................................ Logan
Barrett, Alonzo Thomas (G. S.) ................................ Logan
Beagley, Harry (A.) ............................................. Logan
Boulton, Martha M. (H. E.) ...................................... Park City
Bunderson, Hervin (C.) ........................................ St. Charles
Burke, Asahel W. (G. S.) ....................................... Cedar City
Caine, George B. (A.) ........................................... Logan
Carmichael, Taylor M. (A.) ................................ Salt Lake City
Daniels, Virginia (H. E.) ...................................... Logan
Davenport, Ethel (H. E.) ........................................ Manti
Ellison, Arthur Daniel (A.) .................................. Nephi
Ensign, Martin Russell (A.) ................................... Brigham
Goodwin, Earl (G. S.) .......................................... Logan
Hatch, Vivian (G. S.) ........................................... Logan
Hendrickson, Irene (H. E.) .................................... Logan
Howell, Barbara (G. S.) ....................................... Logan
Hyde, Clara (H. E.) ............................................. Logan
Israelson, Orson Winso (A.) ................................ Hyrum
Jardine, Lenora (H. E.) ....................................... Logan
Jones, Jenkin W. (A.) ........................................... Logan
Larsen, Joseph Reuben (C.) ................................ Logan
Mathisen, Anna (H. E.) ....................................... Logan
Martineau, Charles Freeman (A.) ............................. Logan
Martineau, Vere L. (A.) ....................................... Logan
Moses, Wilford Newton (C.) ................................ Smithfield
Nelson, Eleda (H. E.) ......................................... Logan
Olsen, Harry John (A.) ......................................... Millville
Olsen, Joseph W. (A.) ......................................... Crescent
Osmond, James G. (C.) ....................................... Logan
Parry, Edna (H. E.) ........................................... Cedar City
Peel, Orange Frederick (A.) ................................ Mt. Pleasant
Peters, John William (A.) ...................................... Provo
Richardson, Lester A. (A.) ................................ Ogden
Sharp, David (A.) ............................................... Vernon
Skinner, Joseph Frederick (A.) ................................ Logan
Smith, William Leroy (C.) ................................ Logan
Smart, Melvin (G. S.) ......................................... Logan
Stevens, LeRoy A. (C.) ....................................... Logan
Stucke, Hermon Wilford (A.) ................................ Santa Clara
Taylor, George Merle (A.) ................................... Provo
Vickers, Wallace J. (G. S.) ................................... Nephi
Webb, Heber Jarvis (A.) ...................................... St. George
West, Charles Henry (A.) ................................ Ogden
Williams, Clarence W. (A.) ................................ Logan
Woolley, William G. (A.) ..................................... Salt Lake City
Wright, Pearl (H. E.) ........................................ Richfield

SOPHOMORES.

Adams, Katherine (H. E.) .................................... Layton
Barrett, Edward L. (A.) ...................................... Logan
Borgeson, Andrew A. (A.) ......................................................... Santaquin
Brossard, Roland Elmer (A.) ................................................... Logan
Burnham, Ivie (H. E.) ......................................................... Logan
Carter, Ezra (A.) ......................................................................... Logan
Christensen, Wallace (A.) ..................................................... Layton
Cook, Alfonzo L. (A.) ............................................................... Garden City
Corey, Ray B. (G. S.) ............................................................... Logan
Eames, Aerial G. (A.) ............................................................... Preston, Ida.
Ernman, Ethel (H. E.) ............................................................. Logan
Fister, George M. (A.) ............................................................... Logan
Funk, Magdalen (G. S.) ............................................................ Trenton
Gardner, Robert (G. S.) ............................................................ Logan
Greenhalgh, Violet (H. E.) ......................................................... Logan
Groebli, Katherine Elizabeth (C.) ........................................... Logan
Halls, Frank (M. A.) ............................................................... Provo
Hansen, Henry L. (A.) ............................................................. American Fork
Hobson, Ivan L. (A.) ............................................................... Ogden
Hoff, Myrtle (H. E.) ............................................................... Montpelier, Ida.
Holsman, George F. (M. A.) ..................................................... Logan
Hunsaker, LeGrande (A.) ........................................................ Honeyville
Hunsaker, Veda (H. E.) ............................................................ Honeyville
Janson, Gilbert L. (C.) ............................................................. Gunnison
Jensen, Norman (A.) ............................................................... Logan
Johnson, Myrtle I. (H. E.) ........................................................ Logan
Jonsson, Elmer (G. S.) ............................................................. Logan
Kewley, Robert J. (A.) ............................................................ Logan
Knudson, Warren W. (A.) ........................................................ Logan
Lee, Lucile (H. E.) ................................................................. Logan
Lindsay, West Wharton (A.) ..................................................... Logan
Lloyd, Nellie (G. S.) ............................................................... Rexburg, Ida.
Luscher, John (C.) ................................................................. Brigham
Madsen, Vera (H. E.) .............................................................. Logan
Major, S. Jackson (A.) ............................................................ Logan
Martineau, Bryant (A.) ........................................................... Logan
Miles, Joan (H. E.) ................................................................. Smithfield
Miller, Joseph R. (G. S.) ........................................................ Farmington
Minear, Virgil L. (A) .............................................................. Salt Lake City
Mohr, Ernest (A.) ................................................................. Logan
Morrell, Della (H. E.) ............................................................. Logan
Muir, William (G. S.) ............................................................. Logan
Macfarlane, Menzies (A.) ...................................................... Salt Lake City
McAlister, Ward (A.) ............................................................. Logan
Oldroyd, Lorin Todd (C.) ......................................................... Glenwood
Parkinson, E. Benson (G. S.) ................................................ Logan
Parkinson, Vera (H. E.) ........................................................ Preston, Ida.
Pence, John O. (C.) ............................................................... Logan
Peterson, Norman Verne (A.) ................................................ Richard
Price, Robert L. (A.) ............................................................. Wellsville
Smith, Heber Lawrence (A.) .................................................. Logan
AGRICULTURAL COLLEGE OF UTAH.

Smith, Leslie A. (A.) ........................................ Logan
Sorenson, Charles James (C.) .................................... Hyrum
Stoddard, David (G. S.) ...................................... La Grande, Oregon
Taylor, Lelia (G. S.) .......................................... Ogden
Thain, Wilbur (C.) ........................................ Logan
White, John Edwin (A.) ........................................ American Fork
Wyatt, Ralph A. (A.) ........................................ Wellsville

FRESHMEN.

Aldous, Clarence M. (A.) ........................................ Huntsville
Anderson, Ernest Leon (A.) ....................................... Logan
Anderson, Maud (H. E.) .......................................... Logan
Andrus, Lynn (A.) ................................................ Mammoth
Barber, Walter Farrell (C.) ...................................... Logan
Barber, Wynona (C.) ........................................... Logan
Bell, Ivan E. (A.) ............................................... Glenwood
Brighton, William Clifford (A.) ................................ Murray
Brossard, Frederick (G. S.) ..................................... Logan
Bullen, Bryant (A.) ................................................ Richmond
Caine, Alfred Ballif (A.) ......................................... Logan
Christensen, Axel (A.) ........................................... Central
Christiansen, Archie L. (A.) .................................... Fountain Green
Cowley, Laura P. (H. E.) ......................................... Logan
Cragun, LaVon (G. S.) ............................................. Smithfield
Crookston, Newell J. (C.) ....................................... Greenville
Dalton, William Shanks (A.) .................................... Willard
Ericson, Vivian (H. E.) ........................................... Salt Lake City
Farnsworth, Mrs. Esther (H. E.) ................................ Logan
Frew, Eugene (A.) ................................................ Logan
Funk, Wallace Martin (A.) ........................................ Trenton
Goodwin, Nettie (G. S.) .......................................... Logan
Greenwood, Clarence Julian (C.) ................................ American Fork
Griffin, Amos (A.) ................................................ Newton
Guild, Ethel (G. S.) ............................................. Logan
Guldbrandsen, Hazel (C.) ....................................... Hyrum
Haddock, Lon J. (A.) ............................................... Salt Lake City
Hansen, Albert (C.) ................................................ Idaho Falls
Hansen, Reuben (G. S.) ........................................... Hyrum
Hart, Genevieve (H. E.) .......................................... Logan
Helm, Seth Ward (C.) ............................................. Salt Lake City
Hess, George Marion (A.) ......................................... Farmington
Hickman, Joseph (G. S.) ......................................... Thurber
Hoff, Genevieve (H. E.) .......................................... Logan
Holmgren, Edwin John (A.) ..................................... Bear River City
Holmgren, Andrea (H. E.) ........................................ Bear River City
Holmgren, Mabel (H. E.) .......................................... Bear River City
Homer, Ruth (H. E.) ............................................... Logan
Hougaard, Wilford Ray (A.) ...................................... Logan
Hughes, Rowland (A.) ........................................... Logan
Israelson, John Andrew (A.) .................................... Hyrum
Johnson, Eric Alvin (C.) ............................ Logan
Johnson, Theodore R. (G. S.) ........................ Grantsville
Jones, Amos Peter (G. S.) ............................ Logan
Keaton, George (G. S.) .............................. Logan
Keller, Varien (C.) ................................. Geneva
Kjar, Clinton (A.) ................................. Manti
Lariscy, Maude (C.) ............................... Logan
Lau, Ritha (G. S.) ................................. Soda Springs, Ida.
Lee, Fay Warren (A.) ............................. Hoytsville
Madsen, Roy Mathew (A.) ........................... Gunnison
Mattson, Victor (G. S.) ............................ Meadowville
Merrill, Albert Eugene (G. S.) ........................ Smithfield
Merrill, Gayle (H. E.) .............................. Smithfield
Morgan, Samuel (A.) .............................. Logan
Morrell, Thomas Heber (A.) ........................ Logan
Morris, Edward (C.) .............................. Rockland
McCracken, Joyce (G. S.) ........................... Smithfield
McBride, Brice (A.) .............................. Salt Lake City
McGregor, Charles (G. S.) ........................ Cleveland, Ida.
Nelson, Anna (G. S.) .............................. Logan
Nelson, Gus Andrew (A.) ............................ Logan
Nelson, Olof H. (G. S.) ............................ Logan
Ogden, Junius Francis (A.) ........................ Richfield
Palmer, Alfred Allen (A.) ........................ Logan
Palmer, Alta (H. E.) ............................... Farmington
Parry, Foster (A.) .................................... Logan
Pearl, William Leon (G. S.) ........................ Lewiston
Raleigh, Jay Hazleton (A.) ........................ Salt Lake City
Richardson, Ivie (G. S.) ............................ Logan
Riggs, Emily (H. E.) .............................. Kanab
Sammons, Neil (G. S.) ............................. Logan
Sharp, John A. (A.) ................................. Vernon
Shurtleff, Frank E. (G. S.) ........................ Ogden
Smith, Lewis Calder (A.) ........................... Logan
Steed, Gerald Miller (A.) ........................ Farmington
Tanaka, Torizo (G. S.) ............................. Logan
Tarbet, Agnes (C.) ................................. Logan
Thomas, Percival King (A.) ........................ Salt Lake City
Willie, Allen L. (A.) .............................. Mendon
Willmore, Joseph Clyde (G. S.) ........................ Logan
Winsor, Walter F. (A.) ............................. Enterprise
Wood, Arthur S. (G. S.) ............................ Monticello
Woodbury, Orrin Nelson (A.) ........................ St. George
Woodbury, Warren F. (A.) ........................ Granger
Woodside, Charles Strause (C.) ........................ Logan
Woodside, Jean R. (H. E.) ........................ Logan
Worley, William Raymond (A.) ................... Logan
SPECIALS.

Aebischer, Joseph (M.) .................................................. Logan
Bassett, Irene (G. S.) .................................................. Provo
Batt, William B. (A.) .................................................. Logan
Belnap, Henry (G. S.) .................................................. Millville
Bernhisel, Everett Clarke (A.) ........................................ Lewiston
Bjarnason, Lofter (G. S.) ................................................ Logan
Bowen, Edith I. (G. S.) ................................................ Logan
Clark, Edward J. (G. S.) ................................................ Logan
Clark, Samuel E. (M.) .................................................. Logan
Collett, Imogene (M.) ................................................ Cokeville, Wyo.
Day, Mrs. Bessie (H. E.) ................................................ Logan
Eccles, Marie Stoddard (G. S.) ......................................... Logan
Embley, Charles E. (G. S.) .............................................. Hyrum
Gardner, Willard (G. S.) ................................................ Logan
Gonzales, Manrique (A.) ................................................ Logan
Hammond, Diantha (G. S.) ............................................... Logan
Harding, George (G. S.) ................................................ Logan
Haslam, James Jones (C.) .............................................. Wellsville
Jensen, Ethel (M.) ........................................................ Logan
Johnson, Mabel (G. S.) ................................................ Logan
Kewley, Ray M. (G. S.) ................................................ Logan
Kirkbride, J. W. (G. S.) ................................................ Smithfield
Linnartz, Emma (M.) ..................................................... Logan
Madsen, Ilta (M.) ........................................................ Logan
Munro, Florence (G. S.) ................................................ Logan
Munro, Mamie (C.) ........................................................ Logan
Macfarlane, Wallace (G. S.) ............................................ Salt Lake City
Nebeker, Frank Knowlton (G. S.) ...................................... Salt Lake City
Nebeker, Owen (G. S.) ................................................... Richmond
Nelson, Etta (H. E.) ........................................................ Logan
Peterson, John Henry (A.) .............................................. Smithfield
Peterson, O·chelia (G. S.) ............................................... Logan
Rose, Guy (G. S.) ........................................................ Greenville
Seymour, Gladys (G.S.) .................................................. Kansas
Sloan, Ruth Kimball (H. E.) .............................................. Alberta, Canada
Smurthwaite, Florence S. (G. S.) ...................................... Logan
Sorenson, John P. (G. S.) ............................................... Logan
Stewart, Willie H. (G. S.) ............................................... Logan
Tarbet, Florence (M.) ................................................... Logan
Taylor, LeRoy (M.) ........................................................ St. Anthony, Ida.
Van Tunks, Samuel (C.) ................................................ Lyman

AGRICULTURE.

SECOND YEAR.

Adams, Basil Harris ........................................................ Tremonton
Allen, Robert Leslie ..................................................... Logan
Bair, Henry Eugene ....................................................... Richmond
Barton, Karl Stephens ........................................... Verdrue
Burnett, Grover ................................................ Logan
Birch, Byron .................................................. Hoytsville
Clayton, Irving Emerson ...................................... Salt Lake City
Criddle, Lawrence Irvine ..................................... Hooper
Dalley, Evan Owen ............................................. Wellsville
Farrell, Martin A ............................................... Eden
Forbes, John Phillips ........................................ Layton
Frew, Arnold ................................................... Hooper
Frew, Cecil ..................................................... Hooper
Gardner, Anthony Snow ....................................... Logan
Gardner, Grandison .......................................... Logan
Hampton, Elliot Brigham ..................................... Salt Lake City
Harris, D. Earl ................................................ Logan, Ida.
Haws, Vaughan ................................................ Logan
Hendricks, Mariner William ................................... Richmond
Keller, Joseph Franklin ....................................... Logan
Killpack, Calvin H ............................................. Ferron
Lambert, Alfred William ...................................... Kamas
Leatham, Howard ............................................... Wellsville
Lemmon, Henry J ............................................... Weston, Ida.
Manning, Joseph Walter ...................................... Farmington
Merrill, William Paul ......................................... Richmond
Miles, Douglas ................................................ Smithfield
McAlister, Wallace S ........................................ Logan
Osmond, Charles Anson ....................................... Logan
Owen, Cyril Benson ........................................... Wellsville
Oyler, Joseph ................................................... Garland
Perkins, Evan O ................................................ Wellsville
Pond, Letho T .................................................. Thatcher, Ida.
Purser, James .................................................. Logan
Ricks, Ezra A ................................................... Benson
Rogers, Andrew Lacy ........................................... Myton
Smith, Isaac .................................................... Huntsville
Smith, Raymond ................................................ Logan
Stocks, Otto H .................................................. Lewiston
Thatcher, Nathan Davis, Jr ................................... Thatcher, Ida.
Walker, Simeon LeRoy ......................................... Oak City
Watts, Byron .................................................... Smithfield
Whitbeck, William Erickson .................................. Vernal
Willey, Leo Edward ............................................ Layton
Woodland, Noah L ............................................. Richmond
Woolley, John Franklin ........................................ Grantsville

FIRST YEAR.

Adams, Hazen Forbes .......................................... Layton
Adams, Thomas Elias .......................................... Tremonton
Allen, Thomas ................................................. Provo
Baxter, Francis Leroy ......................................... Logan
Behling, John William ........................................ Ferron
Bigler, Ursel Henry ........................................... Mendon
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<td>Smith, Norval Arden</td>
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<td>Rexburg, Ida.</td>
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<td>Oneida, Ida.</td>
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<td>Younker, Stanley Wayne</td>
<td>Greenville</td>
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</table>
AGRICULTURAL COLLEGE OF UTAH.

WINTER COURSE.

Bennion, Leslie Marcus ........................................ Granger
Blake, James Platt ............................................. Riverton
Garff, Reginald Washington .................................. Draper
Gleason, Lane .................................................. Garland
Hansen, Alma W ................................................ Logan
Hurst, Winfield ................................................ Logan
James, Amasa .................................................. Park Valley
Jepson, James A ................................................. Hurricane
Lamborn, Frank .................................................. Laketown
Madsen, Harold ................................................ Manti
Manning, Henry ................................................ Garland
McMurdie, Sam M ................................................ Paradise
Nuttal, Leonard ................................................ Blackfoot, Ida.
Olsen, Oscar Nephi .............................................. Moroni
Reese, Parley Albert .......................................... Benson
Roskelley, James Emery ....................................... Smithfield
Sessions, S. Elveras ........................................... Logan
Smith, Heber John .............................................. Draper
Smith, Theron Ensign .......................................... Logan
Steele, Henry Mark ............................................ American Fork
Vance, Walter Wm ................................................ Logan
Watts, Joseph H ................................................ Logan

FORESTRY.

Barr, John Bell ................................................ Irvin, Ida.
Baker, John Henry ............................................. Cache Junction
Beirdneau, Albert ............................................... Logan
Christiansen, Peter Mickle .................................. Fountain Green
Dalton, William Shanks ...................................... Willard
Denny, Charles Elmer ......................................... Junction, Ida.
Gleason, Alvirus Horace ..................................... Garland
Killburn, Clarence Rudolph ................................ Garfield
Merrit, John Peter ............................................ Lehi
Smith, Charles Dennis ........................................ Salt Lake City
Smith, Leal ..................................................... Logan
Spencer, Edmund Burke ....................................... Logan

HORTICULTURAL INSPECTION COURSE.

Brereton, R. W .................................................. Provo
Dalton, Patrick D .............................................. Murray
Fenton, N. T ................................................... Pleasant Grove
Fox, James William ........................................... Murray
Gleason, Herbert Lester ....................................... Kaysville
Hickinlooper, O. N ............................................. Ogden
Isaacson, Carl .................................................. Brigham
Miller, A. D ..................................................... Layton
Nokes, Charles M ............................................... Riverton
AGRICULTURAL COLLEGE OF UTAH.

Phillips, Hyrum ........................................................................ Morgan
Rasmussen, Royal N. ................................................................ Wellsville
Romney, George, Jr. ................................................................ Smithfield
Smith, J. O. ............................................................................. East Mill Creek
Smith, J. M. ............................................................................. Draper
Stay, J. C. ................................................................................ Salt Lake City
Wade, D. D. ............................................................................. Ogden
Woodbury, Wm. H. ................................................................ Calders Station
Wright, W. J. ............................................................................ Coalville

POULTRY.

Gibson, Frank M. ....................................................................... Salt Lake City
Kolz, J. T. ................................................................................ Durango, Colo.
Jensen, Carl ............................................................................. Sandy
Johnson, Oliver ......................................................................... Logan
Larsen, Grover Elgin ................................................................ Logan
Lemon, A. A. .......................................................................... Paradise
McMurdie, S. K. ....................................................................... Logan
Pederson, Moses Benjamin ...................................................... Sandy
Stewart, Mary ........................................................................... Plain City

DAIRY.

Kolz, J. T. ................................................................................ Durango, Colo.
Peterson, William ..................................................................... Victor, Ida.
Penman, Robert ........................................................................ West Weber

ROUND-UP.

Allen, Spencer F. ....................................................................... Hyrum
Aldous, Charles Newell ............................................................. Huntsville
Anderson, Andrew John .......................................................... Huntsville
Baker, J. D. .............................................................................. Mendon
Ball, Leroy A. .......................................................................... Logan
Brady, Henry ............................................................................ Logan
Brinton, Wallerton ................................................................... Murray
Brough, Samuel R. .................................................................... Lyman, Wyo.
Broby, N. P. ............................................................................. Wellsville
Busby, Thomas B. ..................................................................... Logan
Burke, Asahel Woodruff .......................................................... Alpine, Ariz.
Burrows, George A. ................................................................ Huntsville
Burrows, William H. ................................................................ Huntsville
Carlson, Ezra ........................................................................... Logan
Christensen, Nephi ................................................................... Greenville
Clark, Hyrum D. ....................................................................... Georgetown, Ida.
Clark, Wallace R. ...................................................................... Morgan
Coombs, T. F. ......................................................................... Fielding
Cragun, James A. ..................................................................... Smithfield
Cressal, Clarence C. ................................................................ Logan
Crookston, N. O. ..................................................................... Greenville
Davis, L. G. .............................................................................. Logan
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## AGRICULTURAL COLLEGE OF UTAH.

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## DOMESTIC SCIENCE.

### THIRD YEAR.

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### SECOND YEAR.

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### FIRST YEAR.

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<td>Richard, Alta</td>
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## COMMERCE.

### THIRD YEAR.

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SECOND YEAR.

Anderson, Alvida ........................................ Neville
Anderson, Joseph A. ......................................... Logan
Barber, Seth Langton ......................................... Logan
Bartlett, Allen .................................................. Salt Lake City
Bassett, Roscoe C. ........................................... Lago, Ida.
Bergsjo, James Albert ......................................... Logan
Carter, James I. ................................................ Park Valley
Cowley, Charles Harold ....................................... Logan
Crockett, Eva .................................................... Logan
Greenwood, Clarence J. ...................................... American Fork
Hammond, Floyd Austin ......................................... Logan
Hansen, Peter ................................................... Tremonton
Hatch, Lorenzo Hill ........................................... Logan
Hatch, Robert Oral ............................................ Franklin, Ida.
Haycock, Frank ................................................ Panguitch
Jones, Lawrence ............................................... Malad
Litz, William E. ............................................... Lewiston
Morley, Leo ..................................................... Moroni
McCulloch, Lillian ............................................. Logan
MacKenzie, Kate ............................................... Logan
Nebeker, Vilate ................................................ Logan
Neilson, George ............................................... Hyrum
Pace, Barlow W. ............................................... Loa
Parkinson, Alice M. ........................................... Logan
Parkinson, Winnie .............................................. Logan
Picot, Alfred George .......................................... Logan
Pilkington, Lewis Lamant ..................................... Smithfield
Pitcher, Walter Augustus .................................... Smithfield
Raymond, Moselle ............................................. Logan
Sjostrom, Joseph Emil ......................................... Logan
Wadley, Joseph ................................................ Linden
Wayman, Frank W. ............................................. Centerville

FIRST YEAR.

Batt, Ruby ..................................................... Logan
Bruderer, Hermia ............................................. Fountain Green
Christensen, Roy .............................................. Fountain Green
Crouch, Maude ................................................ Salt Lake City
Davidson, Amasa ............................................. Fairview
Earl, Ira J. ..................................................... Logan
Forbes, Clarence G. ........................................... Layton
AGRICULTURAL COLLEGE OF UTAH.

Francis, George M. ................................................. Logan
Funk, William Orlando .............................................. Trenton
Greaves, Card ...................................................... Preston, Ida.
Harris, Martin Fowkes ............................................. Superior, Wyo.
Hendricks, Elmer T. ............................................... Logan
Henry, George Edward ............................................. Marysville
Howell, Ellen M. .................................................. Logan
James, Maggie Harrison .......................................... Providence
Jensen, James Leroy ............................................... Hyrum
Johnson, Mark S. ................................................. Logan
Kartchner, Orrin K. ................................................ Logan
Kearl, Chase ......................................................... Laketown
Lambert, Harold ................................................... Logan
Larsen, Vera ........................................................ Mendon
Larsen, Victor Reginald ........................................... Logan
Lloyd, David Thomas ............................................... Wellsville
Maughan, Della ...................................................... Greenville
Mohr, Andrew Jean ................................................ Logan
Muir, Hazel ............................................................ Logan
Murdock, E. H. ..................................................... Minersville
Murray, Joseph W. .................................................. Mt. Sterling
McCormick, Rachel ................................................ Kamas
Nielsen, William John ............................................. Hyrum
Nielsen, Lavere Parry .............................................. Logan
Nisson, Clarence Wilford ......................................... Logan
O'Connell James O. ................................................ Logan
Olsen, Pearl Elizabeth ............................................ Logan
Oyler, Leo ........................................................... Garland
Paddock, Harvey D. ................................................ Wisdom, Mont.
Parke, Thompson .................................................... Kamas
Peebles, Irving ...................................................... Wisdom, Mont.
Rigby, Parley E. ..................................................... Newton
Sanmions, Russell Cole ........................................... Logan
Smith, Jennie ........................................................ Logan
Thoresen, Eliza ..................................................... Logan
Veile, Peter N. S. K. ............................................... Logan
Westover, Albert .................................................. Trenton
Wight, Hazel ........................................................ Garland
Wolsey, Sadie ........................................................ Logan

WINTER COURSE.

Barber, Frank Harvey .............................................. Cache Junction
Bowen, William W. .................................................. Spanish Fork
Bringhamst, Archie ................................................ American Fork
Crane, Edwin ........................................................ Salina
Doutre, William ..................................................... Logan
Fogg, George Ezra .................................................. St. Anthony, Ida.
Petersen, Peter ..................................................... Logan
Smith, Donald ....................................................... Logan
Warr, Clifford ....................................................... Kamas
Young, Leo D. ........................................................ Maffatt
# Agricultural College of Utah

**Manual Training and Domestic Science**

## Third Year.

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## First Year.

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**WINTER COURSE.**

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**HOUSEKEEPERS’ CONFERENCE.**

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Phillips, James W. ........................................ Morgan
Steed, James T. ........................................ Tremonton
Taylor, Gerold ........................................ Lehi

THIRD YEAR.

Fisher, Asael ........................................ Meadow
John, Henry E. ........................................ Logan
Peterson, Nils Andrew ................................ Huntsville
Thomson, Asa ........................................ Richmond
Worley, Eugene ........................................ Logan

SECOND YEAR.

Beck, J. Milton ........................................ Spanish Fork
Clays, Charles ........................................ Bingham Canyon
Crookston, Burns ...................................... Logan
Dahle, Roy Leland ..................................... Logan
Danielson, David H. .................................. Paradise
Forsey, David ........................................ Mammoth
Jelte, Harlow E. ....................................... Smithfield
Lee, Stanley ........................................... Rigby, Ida.
Moore, George E. ........................................ Moab
Nebeker, Delbert ....................................... Laketown
Pace, Francis M. ........................................ Price
Peart, Clyde ............................................ Woods Cross
Reese, Lee .............................................. Benson
Richardson, Jacob Z. ................................ Logan
Williams, Charles Leo ................................ Wellsville

FIRST YEAR.

Asper, Orson E. ........................................ Harrisville
Athay, James Leroy .................................. Logan
Bachman, Gainer ...................................... Eden
Berntson, Hyrum A. ................................... Logan
Bowman, Charley Richard ............................ Nampa, Ida.
Chambers, William L. ................................ Eden
Clark, Lawrence E. .................................... King
Clinger, Arthur B. ..................................... Provo
Conover, Jesse M. ..................................... Ferron
Dahle, LaVere .......................................... Clarkston
Dalton, Edward Arthur ................................ Tooele
Dalton, William Roy .................................. Tooele
Davidson, Hans Arthur ................................ Fairview
Droubay, Parley P. .................................... Irdaville
Duke, Verner Van Ausdal ........................................... Santaquin
Dunford, James ......................................................... Logan
Edwards, Franklin R. .................................................. Logan
Farrell, Marion Lyman ........................................ Smithfield
Felt, Arthur .............................................................. Huntsville
Fisher, Homer ............................................................ Logan
Frank, Austin ............................................................. Providence
Froerer, Don Carlos ................................................ Huntsville
Gardner, Vernal .......................................................... West Jordan
Gessell, David Brand ................................................. Elsinore
Gray, Edwin M. .......................................................... Elsinore
Groebli, John J. ........................................................ Logan
Hansen, Chris N. ....................................................... Bear River City
Hansen, William J. .................................................... Ferron
Hedden, Joseph ........................................................ Logan
Holdaway, Raymond T. ............................................. Tremonton
Janson, John Alma .................................................... Gunnison
Jensen, Harris Leonard ............................................... Hyrum
Jensen, Levi ............................................................. Mayfield
Jensen, Walter .......................................................... Elsinore
Johnson, Alrick Otto .............................................. Grantsville
Johnson, Austin ........................................................ Richmond
Kaufman, Austin ........................................................ Tooele
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Larsen, Oliver ........................................................... Greenville
Lorenson, Theron L. .................................................... Elsinore
Lorenson, J. Leon ........................................................ Elsinore
Lind, Philbert ............................................................ Lynn
Litz, Grover Floyd .................................................... Lewiston
Longstroth, Lynn ..................................................... Mendon
Michels, Robert E. .................................................... Logan
Morris, George W. .................................................... Willard
McCarrel, Vern M. ..................................................... Vernal
Nelson, James Horace ................................................ Huntsville
Olsen, James Elmer ................................................... Emery
Powell, Verner A. ...................................................... Sunnyside
Friday, Sidney Preston ................................................. Logan
Raymond, Goodwin .................................................... Logan
Rider, Rowland ........................................................ Kanab
Riggs, John E. ........................................................... Kanab
Rowe, Arthur ............................................................. Mendon
Smurthwaite, Charles H. ............................................ Ogden
Steed, Willie Eugene ................................................ Tremonton
Stoddard, Preston ..................................................... Minersville
Willes, John William ................................................ Paradise
Wiltbeck, Alden M. ..................................................... Vernal
Woolley, John ............................................................ Rigby, Ida.
Wilde, Raymond ........................................................ American Fork
William, Frank E. Jr. ................................................... Salt Lake City
AGRICULTURAL COLLEGE OF UTAH.

WINTER COURSE.

Aebischer, Charles Jr. ........................................ Logan
Anderson, Ira F. ........................................ Moroni
Anderson, Joseph C. ........................................ Clarkston
Barrett, John Vernon ........................................ Logan
Felt, Larsen L. ................................................ Huntsville
Felt, Lawrence Edward ......................................... Huntsville
Fuhriman, John Vernon ....................................... Providence
Glausner, Fritz ................................................ Logan
Glausner, John ................................................ Logan
Goodwin, Robert .............................................. Trenton
Grunder, John ................................................ Logan
Hall, Earl ...................................................... Logan
Hansen, Heber ................................................. Huntsville
Hansen, Oliver Moroni ......................................... Logan
Hendricks, John Allen ......................................... Logan
Hutchings, Lawrence Smith .................................. American Fork
Ipson, Hazell A. ................................................ Ogden
Jensen, Harris Leonard ..................................... Logan
Juhl, John C. ................................................ Blackfoot, Ida.
Jensen, Peter ................................................ Logan
Kallstrom, Herbert ............................................ Logan
Knapp, Daniel F. .............................................. Richmond
Lake, Orval Earl .............................................. Logan
Lind, Oscar J. ................................................ Lynn
Nakasana, Roy ................................................ Lewiston
Neuberger, Alexander ......................................... Logan
Nielson, Alex .................................................. Manti
Peterson, Miles ................................................. Mendon
Phelps, Willis ................................................ Garland
Showell, Thomas William ..................................... Showell
Stettler, Ernest ............................................... Logan
Sorensen, Royal ............................................... Hyrum
Wilson, Ezra Jr. ............................................... Hyrum
Zollinger, Oliver Herman .................................... Logan

COLLEGE PREPARATORY.

SECOND YEAR.

Aldous, Tura M. ................................................ Huntsville
Baylis, Thomas A. ............................................ Logan
Brossard, Howard ............................................. Logan
Carlyle, John T. ................................................ King
Cooper, Raymond Harrison ..................................... Logan
Eccles, Spencer ................................................ Logan
Hovey, Sidney Goodrich ...................................... Millville
Jones, David W. ............................................... Cherry Creek, Ida.
Lau, Joseph C. ................................................ Logan
Lee, Hazel ...................................................... Logan
Molyneaux, Alma Ray ........................................ Logan
Parkinson, Glenn ........................................ Logan
Peterson, Caroline ........................................ Logan
Peterson, Hugh C. ........................................ Preston, Ida.
Vibrans, Lewis C. ........................................ Cokeville, Wyo.
Wallace, Jonathan Alonzo ................................. Hyrum

FIRST YEAR.

Baugh, George Thomas .................................... Logan
Caffey, Eugene Mead ........................................ Logan
corrigan, Terrence Vincent .............................. Superior, Wyo.
Dunlop, Rhea ................................................ Logan
Graham, Vernon ........................................... Salt Lake City
Hansen, Earl Moroni ...................................... Plain City
Hansen, Norman ........................................... Idaho Falls, Ida.
Hatch, Joseph Estman ..................................... Logan
Heldberg, Gust Oscar ...................................... Logan
Leishman, LeRoy James ................................ Logan
Packer, Joseph ............................................. Fielding
Palmer, Leslie Smith ..................................... Farmington
Palmer, Herman ........................................... Farmington
Parker, Lula M. ............................................ Logan
Pederson, Reuben ......................................... Logan
Peterson, Vadal ............................................ Logan
Redd, Alta ................................................ Monticello
Reese, William Grover ................................... King
Skanchy, Fritjof .......................................... Logan
Taylor, Allen ............................................. Rexburg, Ida.
Thirkill, Frank Jr. ......................................... Logan
Weber, Walter ............................................. Logan
Williams, Howell M. ..................................... Cherry Creek, Ida.

OPTIONALS.

Alder, Mrs. Jennie (H. E.) ............................... Logan
Bingham, Sanford L. (A.) ................................ Logan
Condie, Paul (G. S.) ..................................... Salt Lake City
Cox, Mrs. Mamie (H. E.) ................................ Logan
Day, Elmer L. (M. A.) ..................................... Logan
Evans, Lawrence Hyde (G. S.) ........................ Nephi
Nyman, Mary Baker (C.) ................................ Logan
Peterson, Clara (C.) ....................................... Logan
Redd, Isabelle (H. E.) ..................................... Logan
Stoddard, Walter B. (M. A.) ............................. Hooper
Taylor, LeRoy (M.) ........................................ St. Anthony, Ida.
Woolley, Alonzo H. (M. A.) ............................. Grantsville

SUMMARY BY COURSES.

Agriculture .................................................. 407
Domestic Science .......................................... 165
Commerce ................................................................. 135
General Science ......................................................... 82
Mechanic Arts .......................................................... 128
Music ................................................................. 8
College Preparatory .................................................. 41
Summer School ......................................................... 140

1,106

Names Repeated ......................................................... 37

Total Registration .................................................... 1,069

SUMMARY BY YEARS.
Graduates ............................................................. 5
Seniors ................................................................. 72
Juniors ............................................................... 51
Sophomores .......................................................... 61
Fourth Year (with rank of Sophomore) ................. 4
Freshmen ............................................................ 89
Third Year (with rank of Freshmen) ..................... 36
Specials ............................................................... 44

Total of College Grade ............................................. 362
Second Year .......................................................... 128
First Year ........................................................... 247
Optionals ............................................................. 12
Winter Course ......................................................... 217
Agriculture .......................................................... 22
Commerce ........................................................... 10
Dairy ................................................................. 3
Domestic Art ......................................................... 6
Forestry .............................................................. 12
Horticultural Inspection ......................................... 18
Housekeepers' Conference ....................................... 14
Mechanic Arts ....................................................... 34
Poultry ............................................................... 9
Roundup ............................................................. 89

Total High School and Winter Course ................. 604

Summer School ....................................................... 140

1,106

Less names repeated ................................................. 37

Total Registration ................................................... 1,069
### SUMMARY BY SCHOOLS

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A BIRDSEYE VIEW OF SOME OF THE COLLEGE RESIDENCES, THE BARNs, AND POULTRY PLANT.