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1926-27

# Agricultural College of Utah Bulletin



## GENERAL CATALOG 1926-1927

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**COLLEGE BULLETINS.** Published by the Agricultural College of Utah, at Logan, Utah. Issued Bi-Monthly. Vol. 26, No. 1, July, 1926. Entered as second class matter September 10, 1918, at the post office at Logan, Utah, under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided in Section 1103, Act of October 3, 1917, authorized August 22, 1918.



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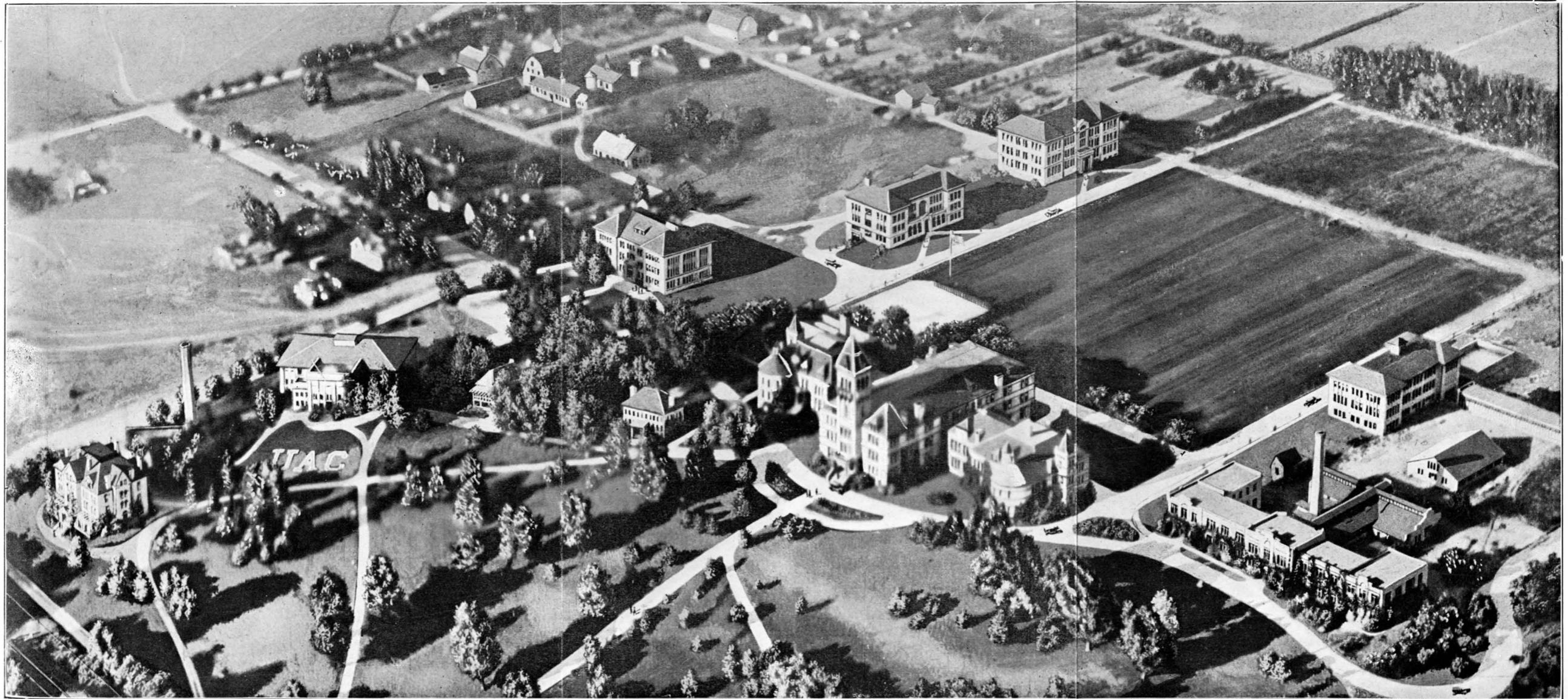
**THE UTAH AGRICULTURAL COLLEGE** has been designated by the War Department as an approved College for the maintenance of Reserve Officers' Training Corps. The College becomes, therefore, a training school for officers.

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

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AIRPLANE VIEW OF THE CAMPUS OF THE UTAH AGRICULTURAL COLLEGE OF LOGAN



Home Economics Building      Heating Plant      Farm Buildings      Chemistry Building      Main Building      Plant Industry Building      Engineering Building      R. O. T. C. Garage  
 Smart Gymnasium      President's Residence      Experiment Station      Animal Husbandry Building      Mechanic Arts Building      Auto Shop  
 (See other side)

# Airplane View of the Campus of the Utah Agricultural College

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

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

**The Main Building:**

General Administrative Offices

Departments of:

- Accounting and Business Administration
- Agricultural Economics and Marketing
- Art
- Correspondence Studies
- Economics and Sociology
- Education and Psychology
- English
- Geology
- History
- Horticulture
- Library Economy
- Mathematics
- Modern Languages and Latin
- Music
- Political Science
- Public Speaking
- Stenography and Typewriting
- Zoology and Entomology

**Mechanic Arts Building:**

Departments of:

- Auto Mechanics
- Farm Mechanics
- Forging and General Blacksmithing
- Machine Work
- Mechanic Arts
- Woodwork and Housebuilding

**Chemistry Building:**

Departments of:

- Bacteriology and Physiology
- Chemistry
- Physics
- Rural Sanitation

**Home Economics Building:**

Departments of:

- Foods and Dietetics
- Household Administration
- Textiles and Clothing

**Smart Gymnasium**

Offices of Medical Advisor

- Men's Gymnasium
- Women's Gymnasium
- Swimming Pool and Showers
- Hand Ball Court
- Lockers for Men and Women
- Departments of Physical Education

**Plant Industry Building:**

Departments of:

- Agronomy
- Botany and Plant Pathology

**Experiment Station:**

Administrative Offices of Experiment Station and Extension Service

**Animal Husbandry Building:**

Departments of:

- Animal Husbandry
- Dairy Husbandry
- Poultry Husbandry
- Range Management and Forestry
- Veterinary Science

**Engineering Building:**

Departments of:

- Agricultural Engineering
- Agricultural Surveying
- Applied Mechanics and Design
- Highway Engineering
- Irrigation and Drainage
- Mechanical Drawing
- Military Science and Tactics
- Rural Architecture

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



# Agricultural College of Utah Bulletin

GENERAL CATALOG  
1926-1927



THIRTY-SEVENTH YEAR  
WITH LIST OF STUDENTS FOR 1925-1926

PUBLISHED BY THE COLLEGE JULY, 1926  
LOGAN, UTAH

# CALENDAR

1926							1927							1928													
<b>JULY</b>							<b>JANUARY</b>							<b>JULY</b>													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	1	2	3	..	..	..	..	..	1	..	..	..	..	1	2	1	2	3	4	5	6	7		
4	5	6	7	8	9	10	2	3	4	5	6	7	8	3	4	5	6	7	8	9	8	9	10	11	12	13	14
11	12	13	14	15	16	17	9	10	11	12	13	14	15	10	11	12	13	14	15	16	15	16	17	18	19	20	21
18	19	20	21	22	23	24	16	17	18	19	20	21	22	17	18	19	20	21	22	23	22	23	24	25	26	27	28
25	26	27	28	29	30	31	23	24	25	26	27	28	29	24	25	26	27	28	29	30	29	30	31	..	..	..	..
..	..	..	..	..	..	..	30	31	..	..	..	..	..	31	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>AUGUST</b>							<b>FEBRUARY</b>							<b>AUGUST</b>													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	..	..	1	2	3	4	5	..	1	2	3	4	5	6	..	..	..	1	2	3	4
8	9	10	11	12	13	14	6	7	8	9	10	11	12	7	8	9	10	11	12	13	5	6	7	8	9	10	11
15	16	17	18	19	20	21	13	14	15	16	17	18	19	14	15	16	17	18	19	20	12	13	14	15	16	17	18
22	23	24	25	26	27	28	20	21	22	23	24	25	26	21	22	23	24	25	26	27	19	20	21	22	23	24	25
29	30	31	..	..	..	..	27	28	..	..	..	..	..	28	29	30	31	..	..	..	26	27	28	29	..	..	..
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<b>SEPTEMBER</b>							<b>MARCH</b>							<b>SEPTEMBER</b>													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	1	2	3	4	..	..	1	2	3	4	5	..	..	..	1	2	3	..	..	..	1	2	3		
5	6	7	8	9	10	11	6	7	8	9	10	11	12	4	5	6	7	8	9	10	4	5	6	7	8	9	10
12	13	14	15	16	17	18	13	14	15	16	17	18	19	11	12	13	14	15	16	17	11	12	13	14	15	16	17
19	20	21	22	23	24	25	20	21	22	23	24	25	26	18	19	20	21	22	23	24	18	19	20	21	22	23	24
26	27	28	29	30	..	..	27	28	29	30	31	..	..	25	26	27	28	29	30	..	25	26	27	28	29	30	31
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>OCTOBER</b>							<b>APRIL</b>							<b>OCTOBER</b>													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	..	1	2	3	..	..	..	..	1	2	3	..	..	..	..	1	2	3	1	2	3	4	5	6	7
3	4	5	6	7	8	9	3	4	5	6	7	8	9	2	3	4	5	6	7	8	8	9	10	11	12	13	14
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24	25	26	27	28	29	30	24	25	26	27	28	29	30	23	24	25	26	27	28	29	29	30	..	..	..	..	..
31	..	..	..	..	..	..	..	..	..	..	..	..	..	30	31	..	..	..	..	..	..	..	..	..	..	..	..
<b>NOVEMBER</b>							<b>MAY</b>							<b>NOVEMBER</b>													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	1	2	3	4	5	6	1	2	3	4	5	6	7	..	1	2	3	4	5	..	1	2	3	4	5	6	
7	8	9	10	11	12	13	8	9	10	11	12	13	14	6	7	8	9	10	11	12	6	7	8	9	10	11	12
14	15	16	17	18	19	20	15	16	17	18	19	20	21	13	14	15	16	17	18	19	13	14	15	16	17	18	19
21	22	23	24	25	26	27	22	23	24	25	26	27	28	20	21	22	23	24	25	26	20	21	22	23	24	25	26
28	29	30	..	..	..	..	29	30	31	..	..	..	..	27	28	29	30	..	..	..	27	28	29	30	31	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>DECEMBER</b>							<b>JUNE</b>							<b>DECEMBER</b>													
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	..	1	2	3	4	..	..	..	1	2	3	4	..	..	..	..	1	2	3	..	..	..	..	1	2	3
5	6	7	8	9	10	11	5	6	7	8	9	10	11	4	5	6	7	8	9	10	3	4	5	6	7	8	9
12	13	14	15	16	17	18	12	13	14	15	16	17	18	11	12	13	14	15	16	17	10	11	12	13	14	15	16
19	20	21	22	23	24	25	19	20	21	22	23	24	25	18	19	20	21	22	23	24	17	18	19	20	21	22	23
26	27	28	29	30	31	..	26	27	28	29	30	..	..	25	26	27	28	29	30	31	24	25	26	27	28	29	30
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

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# College Calendar for 1926-1927

## FALL QUARTER

- September 27, Monday ..... Entrance examinations, Registration of former students and of new students admitted on certificates.
- September 28, Tuesday.....Instruction begins.
- October 6, Wednesday.....A s s e m b l y explaining scholarship awards.
- November 11, Thursday.....Armistice Day (Half-Holiday).
- November 25-28, (inclusive).....Thanksgiving recess.
- December 18, Saturday.....Fall quarter ends.
- December 19—Jan. 2, (inclusive). Christmas recess.

## WINTER QUARTER

- January 3, Monday.....Winter quarter begins.
- February 22, Tuesday.....Washington's birthday.
- March 11, Monday.....Founder's Day (Half Holiday).
- March 19, Saturday.....Winter quarter ends.

## SPRING QUARTER

- March 21, Monday.....Spring quarter begins.
- April 18-23.....Annual Vocational Conference and Club Leaders' School.
- May 9, Monday.....Conferring of Scholarships and other awards.
- May 23, Monday.....Senior Chapel.
- May 30, Monday.....Memorial Day.
- June 3, Friday.....Spring quarter ends. Annual Alumni business meeting and social.
- June 4, Saturday.....Commencement and alumni banquet and ball.
- June 5, Sunday.....Baccalaureate Sermon.

## SUMMER QUARTER

- June 13, Monday.....Summer quarter begins.
- July 4, Monday.....Independence Day.
- July 22, Friday.....First term ends.
- July 25, Monday.....Second term begins.
- September 2, Friday .....Summer quarter ends.

## Board of Trustees

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

### OFFICERS OF THE BOARD

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

## Standing Committees of the Board of Trustees

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

# Officers of Administration and Instruction\*

## The College Faculty

(Arranged in groups in the order of seniority of appointment.)

ELMER GEORGE PETERSON ..... President

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

WILLIAM PETERSON..... Director of Experiment Station and Extension Division, Professor of Geology

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

HYRUM JOHN FREDERICK..... Professor of Veterinary Science

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

†FRANK RUSSELL ARNOLD..... Professor of Modern Languages

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

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

†Absent on leave, Spring quarter.

- JOHN THOMAS CAINE**.....Auditor  
 B. S., Utah Agricultural College, 1894; Master Farmer (Honorary Degree), 1915. Student, Cornell University, 1876; Superintendent, Cache County Schools; Superintendent, Logan City Schools; Instructor in English, Utah Agricultural College, 1890-1907; Registrar, 1903-12; Auditor, 1912—.
- FRANKLIN LORENZO WEST**.....Dean of the Faculty, Professor of Physics  
 B. S., Utah Agricultural College, 1904; Ph. D., University of Chicago, 1911. Professor of Physics, Brigham Young University, 1905-06; Professor of Chemistry, Utah Agricultural College, 1907-08; Fellow, University of Chicago, 1910-11; Professor of Physics, Utah Agricultural College, 1908—; Director of School of General Science, 1913-21; Dean of the Faculty, 1921—.
- JOSEPH EAMES GREAVES**.....Professor of Bacteriology and Physiological Chemistry  
 B. S., Utah Agricultural College, 1904; M. S. University of Illinois, 1907; Ph. D., University of California, 1911. Instructor in Chemistry, Utah Agricultural College, 1907-08. Assistant Professor, 1908-10; Fellow, University of California, 1910-11; Associate Professor of Physiological Chemistry, Utah Agricultural College, 1911-13; Professor of Bacteriology and Physiological Chemistry, 1913—.
- CALVIN FLETCHER**..... Professor of Art  
 B. Pd., Brigham Young University, 1905. Student at Pratt Institute, 1906-07; Student at Columbia University, 1912; Student at Central School of Arts and Crafts, London, England, 1912-13; Student of M. Biloul and at Academy Colorossi, Paris, France, 1913; Student at Chicago Art Institute and Art Craft Institute, 1913-14; Superintendent of Art, Utah County Public Schools, 1903-05; Assistant Professor of Art, Brigham Young University, 1905; Assistant Professor of Art, Utah Agricultural College, 1907-12, Associate Professor, 1912-13, Professor, 1913—; Vice-president, National Vocational Art and Industrial Federation, 1913-14; Director, Utah Art Institute, 1918-20.
- RAY BENEDICT WEST**.....Dean of the Schools of Agricultural Engineering and Mechanic Arts, Professor of Agricultural Engineering  
 B. S., Utah Agricultural College, 1904; C. E., Cornell University, 1906. Engineer, Oregon Short Line Railroad, 1906-07; In Charge of Engineering Department, Brigham Young College, 1907-08; Division Engineer, Sumpter Valley Rail-

road, 1908-09; Consulting Engineer, Portland, Oregon, 1909-12; Professor of Agricultural Engineering, Utah Agricultural College, 1912—, Dean of the Schools of Agricultural Engineering and Mechanic Arts, 1916—.

**JAMES HENRY LINFORD** . . . Director, Summer Quarter; Superintendent, Correspondence-Study Department.

B. S., Brigham Young College, 1898; D. Did. (honorary degree), Latter-Day Saints Board of Education, 1913. Student at the Hopkins Laboratory of Leland Stanford University, Summer Quarter, 1895-96; Student, University of Chicago, Summer Quarter, 1897. Professor of Zoology and Botany, Brigham Young College, 1892-1912; President, Brigham Young College, 1900-13; Director of the Summer Quarter and Superintendent of the Correspondence-Study Department, Utah Agricultural College, 1913—.

**ARTHUR HERBERT SAXER** . . . . . Dean, School of Basic Arts and Science, Professor of Mathematics

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

**NIELS ALVIN PEDERSEN** . . . . . Professor of English and Speech

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

**PARLEY ERASTUS PETERSON** . . . . . Professor of Accounting

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

**FRANKLIN DAVID DAINES.....Professor of Political Science**

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

**JOHANNA MOEN.....Professor of Textiles and Clothing**

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

**REUBEN LORENZO HILL.....Professor of Chemistry**

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

**GEORGE BALLIF CAINE.....Professor of Dairy Husbandry**

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

**ORSON WINSO ISRAELSEN.....Professor of Irrigation and Drainage**

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

**GEORGE STEWART.....Professor of Agronomy**

B. S., Utah Agricultural College, 1913; M. S., Cornell University, 1918, Ph. D., University of Minnesota, 1926. Instruc-



tor in Agronomy, Utah Agricultural College, 1913-16; Assistant Professor of Agronomy, Utah Agricultural College, 1917-18, Associate Professor, 1918-19, Professor, 1919—.

**WILLIAM LAWRENCE WANLASS** . . . Dean, School of Commerce and Business Administration, Professor of Agricultural Economics and Marketing

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

**\*MILTON HYRUM HARRIS** . . . . . Professor of Economics

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

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

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

**HENRY PETERSON** . . . . . Professor of Education and Psychology

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

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\*Absent on leave.



- JOEL EDWARD RICKS.....Professor of History  
A. B., University of Utah; A. M., University of Chicago, 1920; President, Weber Normal College, 1920-22; Professor of History, Utah Agricultural College, 1922—.
- ALICE KEWLEY.....Professor of Household Administration,  
Superintendent, Home Economics Cottage, in Charge,  
Home Economics Education  
B. S., Utah Agricultural College, 1910; Instructor in Foods and Sanitation, Nephi High School, 1910-13; Head of Home Economics Department, Granite High School, 1913-20; Assistant Professor of Education and Psychology, Utah Agricultural College, 1921-23; Professor of Household Administration, 1923—.
- CARRIE CASTLE DOZIER.....Dean, School of Home Economics,  
Professor of Foods and Dietetics  
B. S., Oregon Agricultural College, 1918; A. M., University of California, 1919; Ph. D., 1923. Holder of Fellowship of the Hooper Foundation for Medical Research. Member of the faculty of the University of California, Southern Branch, 1922-23. Dean, School of Home Economics and Professor of Foods and Dietetics, Utah Agricultural College, 1923—.
- ADRIN B. SMITH.....Professor of Military Science and Tactics  
Captain, Coast Artillery Corps, United States Army—.
- WILLARD GARDNER.....Professor of Physics  
B. S., Utah Agricultural College, 1912; M. S., University of California, 1915; Ph. D., 1916. Principal Murdock Academy, 1916-17; Graduate Assistant and Instructor in Physics, University of California, 1913-16; Professor of Physics and Mathematics, Brigham Young College, 1917-18; Associate Professor of Physics, Utah Agricultural College, 1918-24, Professor, 1924—.
- BERT LORIN RICHARDS..Professor of Botany and Plant Pathology  
B. S., Utah Agricultural College, 1913, M. S., 1917; Ph. D., University of Wisconsin, 1919. Instructor, Utah Agricultural College, 1913-15; Assistant Professor of Botany and Plant Pathology, 1915-17; Student, University of Chicago, Summer Quarter, 1916; Fellow, University of Wisconsin, 1917; Associate Professor of Botany and Plant Pathology, Utah Agricultural College, 1919-24, Professor, 1924—.

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

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

WILLIAM WILLIAMS HENDERSON....Professor of Zoology and Entomology

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

HERBERT J. PACK.....Professor of Entomology

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

E. LOWELL ROMNEY.....Director of Athletics

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

ASA BULLEN.....Special Lecturer in Commercial Law

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

- .....Professor of Instrumental Music
- AUGUST J. HANSEN.....Associate Professor of Carpentry and  
Woodwork
- B. S., Utah Agricultural College, 1911. Assistant Instructor,  
Utah Agricultural College, 1896-97, Instructor, 1897-1913,  
Assistant Professor of Carpentry and Woodwork, 1913-17,  
Associate Professor, 1917—.
- AARON NEWAY.....Associate Professor of Machine Work
- B. S., Utah Agricultural College, 1912. Student, Stourbridge  
Technical School, England, 1884-1900; Assistant in Carpen-  
try, Utah Agricultural College, 1906-07, Instructor in Forging,  
1907-14; Assistant Professor of Forging, 1914-17, Associate  
Professor of Forging, 1917-20, Associate Professor of  
Machine Work, 1920—.
- WILLIAM BOWKER PRESTON.....Health Supervisor of Students
- M. D., University of Illinois, 1916. Graduate work, West  
Side Hospital, Chicago, Illinois, 1916; Captain Medical Corps,  
U. S. Army, 1917-19; Medical Examiner, U. S. Veteran's  
Bureau, Utah Agricultural College, 1920-26, Medical Super-  
visor of Students, 1920—.
- ALFRED H. POWELL.....Associate Professor of Farm Machinery
- Four Years, Apprentice Machinist; Four Years, Iron, Bronze  
and Steel Foundryman Apprentice. Assistant in Automobile  
and Tractor Work, Utah Agricultural College, 1918-19; As-  
sistant Professor of Machine Work, 1919-20, Associate Pro-  
fessor of Farm Mechanics, 1920—.
- KATHERINE COOPER CARLISLE.....Associate Professor of  
Physical Education for Women
- B. S., Teachers' College, Columbia University, 1918. Diplo-  
ma, State Normal School, Monclair, New Jersey, 1916; Tile-  
stan Scholarship, Teachers' College, Columbia University,  
1917-18; Instructor in Physical Education, Barnard College,  
1918-21; Associate Professor of Physical Education for  
Women, Utah Agricultural College, 1922—.
- CHARLES TARRY HIRST.....Associate Professor of Chemistry
- B. S., Utah Agricultural College, 1910, M. S., 1914; Graduate  
Student, University of California, 1918-19; Instructor in  
Chemistry, Utah Agricultural College, 1910-15; Assistant  
Professor of Chemistry, Utah Agricultural College, 1915-24,  
Associate Professor, 1924—.

- SHERWIN MAESER**.....Associate Professor of Chemistry  
A. B., Brigham Young University, 1909; Ph. D., University of California, 1921. Professor of Physics, Brigham Young University, 1916-19; Assistant in Chemistry, University of California, 1919-21; Assistant Professor of Chemistry, Utah Agricultural College, 1921-24, Associate Professor, 1924—.
- DON WARREN PITTMAN**.....Associate Professor of Agronomy  
B. S., Iowa State College, 1914; M. S., Utah Agricultural College, 1916; Instructor in Agronomy, Utah Agricultural College, 1916-20; Assistant Professor of Agronomy, 1920-24, Associate Professor, 1924—.
- EDMUND BURKE FELDMAN**..Associate Professor of Agricultural Engineering  
B. C. E., University of Cincinnati, 1916; Graduate work, University of Minnesota, 1921-22, Associate member, American Society of Civil Engineers; Licensed Structural Engineer, State of Illinois. Structural Designer, 1916-17; Structural Engineer, 1917-18; Assistant Engineer, U. S. Bureau of Aircraft Production, 1918-19; Bridge Designer, 1919-20; Structural Engineer, 1920-21; Instructor University of Minnesota, 1921-22; Assistant Professor of Agricultural Engineering, Utah Agricultural College, 1922-24, Associate Professor, 1924—.
- BYRON ALDER**.....Associate Professor of Poultry Husbandry  
B. S., Utah Agricultural College, 1912. Assistant Professor of Poultry Husbandry, Utah Agricultural College, 1913-25, Associate Professor, 1925—.
- JOSEPH R. JENSON**...Associate Professor of Physical Education  
A. B., Brigham Young College, 1909. Recreational Director, Mather Field Flying School, 1918; Graduate Student, University of Wisconsin, Summer of 1912, Columbia University, Summer of 1916, University of California, Summer of 1919. Assistant Professor of Physical Education, Utah Agricultural College, 1917-25, Associate Professor, 1925—.
- WALLACE J. VICKERS**.....Associate Professor of English  
B. S., Utah Agricultural College, 1912, A. M., Stanford University, 1925, Ph. D., 1926. Instructor in English, Latter Day Saints University, 1917-19, Head of the Department of English, 1919-20; Assistant Professor of English, Utah Agricultural College, 1920-26, Associate Professor, 1926—.
- F. B. WANN**.....Associate Professor of Botany  
A. B., Wabash College, 1914; Ph. D., Cornell, 1920. Instructor in Botany, Cornell, 1915-23. Fellow in Biological

Sciences, National Research Council, 1923-26; Associate Professor of Botany, Utah Agricultural College, 1926—.

JOSEPH ARCH GEDDES.....Associate Professor of Sociology

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

RALPH M. RUTLEDGE.....Associate Professor of Economics

B. S., Oregon Agricultural College, 1914; M. S., University of Wisconsin, 1916. Graduate student, University of Washington, 1923-26. Professor of Economics and Marketing, Amherst, 1916-17; Market reporter, U. S. Department of Agriculture, 1917-19. Commercial Marketing, Yakima, Washington, 1919-20. Associate Professor of Economics, Utah Agricultural College, 1926—.

CHARLOTTE KYLE.....Assistant Professor of English

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

\*RAYMOND J. BECRAFT.....Assistant Professor of Range  
Management

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

TRACY H. ABELL.....Assistant Professor of Horticulture

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

EZRA G. CARTER.....Assistant Professor of Bacteriology and  
Physiology

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

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\*Absent on leave.



**WILBER EVANS THAIN**.....Assistant Professor of Accounting

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

**LEON D. HARDY**....Assistant Professor in Correspondence-Study  
Department

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

**SAMUEL ROY EGBERT**.....Assistant Professor of Forging

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

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

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

**HENRY OBERHANSLEY**....Assistant Professor of Education and  
Psychology

A. B., Brigham Young University, 1914. Graduate Student, Iowa State College, 1920; Graduate Student, University of California, Summer, 1921; Principal, Iron County High School, 1916-18; Assistant State Leader, Junior Vocational Work, Extension Division, Utah Agricultural College, 1918-19; Live Stock Specialist, Extension Division, 1919-20; Assistant Professor of Education and Psychology, Utah Agricultural College, 1921—.

**N. E. EDLEFSEN**.....Assistant Professor of Physics

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

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

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

AARON F. BRACKEN.....Assistant Professor of Agronomy

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

\*CHRISTINE BOCKHOLD CLAYTON.....Assistant Professor of  
Foods and Dietetics

B. S., Utah Agricultural College, 1915; Graduate Student University of Chicago, 1923. In Charge, Department of Home Economics, Branch Agricultural College, and Home Demonstration Agent for Iron County, 1919-1922; Nutrition Specialist, Extension Division, Utah Agricultural College, 1923-24; Assistant Professor of Foods, 1924—.

ALMA ESPLIN.....Assistant Professor of Wool Management

B. S., Utah Agricultural College, 1916; Graduate student, University of Wyoming, 1924-25; Studying wool grading and manufacturing, Washington, Philadelphia and Boston, Spring of 1925. County Agricultural Agent, Iron County, 1916-1924, Assistant Professor of Wool Management, Utah Agricultural College, 1925—.

RUSSELL ELWOOD BERNTSON.....Secretary, Treasurer and  
Purchasing Agent

DAN ARTHUR SWENSON....Assistant Professor of Carpentry and  
Woodwork

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

FANNIE MAUGHAN VERNON....Assistant Professor of English,  
Extension

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\*Absent on leave.



SIDNEY STOCK.....Assistant Professor of Farm and Auto  
Mechanics

B. S., Utah Agricultural College, 1922. Instructor in Auto  
Mechanics, Ignition, Starting and Lighting and Storage Bat-  
teries, Utah Agricultural College, 1919-26, Assistant Profes-  
sor of Farm and Auto Mechanics, 1926—.

CHARLES E. McCLELLAN.....Assistant Professor of Education

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

REED BAILEY.....Assistant Professor of Geology

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

WALTER WELTI.....Assistant Professor of Vocal Music

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

JOHN L. HANLEY.....Assistant Professor of Military Science and  
Tactics

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

ALMA NICHOLAS SORENSON...Assistant Professor of English

A. B., Brigham Young College, 1909; A. M., Harvard Uni-  
versity, 1917. Graduate student, University of California,  
Summer of 1923. Instructor in English, Brigham Young  
College 1909-10; Professor of English, 1912-26; Assistant  
Professor of English, Utah Agricultural College, 1926—.

-----Assistant Professor of Physical Education

- EMIL HANSEN.....Superintendent of Grounds and Greenhouses,  
Instructor in Landscape Gardening, Extension  
Graduate, Technical School in Landscape Gardening, Den-  
mark; Fellow Royal Garden Association, 1895-97; Instructor,  
Stormley School of Gardening, Norway, 1897-99. Landscape  
Gardener, Wandamere Park, Salt Lake City, 1904-06; Land-  
scape Gardener, Rose City Cemetery, Portland, 1906-14;  
Superintendent, Grounds and Greenhouses, Utah Agricultural  
College, 1914—. Assistant in Horticulture, 1918-20. In-  
structor, 1920—.
- THELMA FOGELBERG....Instructor in Stenography and Business  
Practice  
Student, Utah Agricultural College, 1917-19; Instructor in  
Stenography and Business Practice, Utah Agricultural Col-  
lege, 1919—.
- HARRY R. REYNOLDS.....Instructor in Art  
Graduate of the three-year course, Art Institute of Chicago,  
1923. Instructor in Art, Utah Agricultural College, 1923—.
- DELMAR C. TINGEY.....Instructor in Agronomy  
B. S., Utah Agricultural College, 1922; M. A., 1924; Assist-  
ant in Agronomy, Utah Agricultural College, 1922-25; In-  
structor, 1925—.
- HELEN KNOTT.....Instructor in Textiles and Clothing  
B. S., Teachers College, Columbia University, 1924; Student,  
Brown's Salon Studio, New York City; Instructor in Smith-  
Hughes work, Maryville College, Maryville, Tenn., 1924-25.  
Instructor in Textiles and Clothing, Utah Agricultural Col-  
lege, 1925—.
- WILFORD CHASE COLE.....Instructor in Dairy Manufacturing  
B. S., Utah Agricultural College, 1924. Assistant in Dairy  
Manufacturing, Utah Agricultural College, 1924-25; Instruc-  
tor, 1925—.
- WILLIAM HAROLD BELL.....Assistant Registrar  
B. S., Utah Agricultural College, 1923; Office Manager, Ser-  
vice Motor Company, 1923-24. Accountant, Secretary's Of-  
fice, Utah Agricultural College, 1924-25, Assistant Registrar,  
1925—.

- H. LORAN BLOOD.....Instructor in Botany and Plant Pathology  
B. S., Utah Agricultural College, 1926. Assistant in Botany  
and Plant Pathology, Utah Agricultural College, 1924-26, In-  
structor, 1926—.
- W. H. WARNER.....Instructor in Poultry Husbandry  
B. S., Utah Agricultural College, 1926. Assistant in Poultry  
Husbandry, Utah Agricultural College, 1925-26, Instructor,  
1926—.
- CHESTER J. MYERS.....Instructor in Speech  
A. B., University of Utah; A. M., University of Iowa, 1925.  
Professor of Dramatic Art and Public Speaking, Weber  
College, 1925-26; Instructor in Public Speaking, Utah Agri-  
cultural College, 1926—.
- FRED HAMMERLY.....Instructor in English  
B. A., University of Wisconsin, 1925. Graduate student,  
University of Wisconsin, 1925-26. Instructor in English,  
Utah Agricultural College, 1926—.
- AMY PRATT.....Assistant in Library
- CHARLES BATT.....Superintendent of Water, Heating and  
Lighting Plant
- RASMUS OLUF LARSEN.....Superintendent of Buildings

## Extension Class Teachers

- A. J. Ashman, Supt. Sevier School District.  
B. A. Fowler, Supt. Weber School District.  
B. K. Farnsworth, Supt. Millard School District.  
M. O. Poulson, Supt. Beaver School District.  
Chas. H. Skidmore, Supt. Box Elder School District.  
J. R. Tippetts, Supt. Morgan School District.  
D. C. Woodward Jr., Supt. Carbon County School District.

## Standing Committees

1926-27

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

Advanced Standing—Professor W. W. Hendersen.

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

Athletic Council—To be announced.

Awards and Honors—Professors Wanlass, Linford, Dozier.

Boy Scout Activity—Professors Richards, Fletcher, Oberhansley.

Campus Improvement—Professors Ray B. West, William Peterson, T. H. Abell, Fletcher, Mr. Emil Hansen.

Certification of Teachers—Professors Henry Peterson, F. L. West, Saxer, Mr. Bell.

College Editor—Professor Sorenson.

Debating—Professors Vickers, N. A. Pedersen, Daines, Ricks, Maeser, Geddes, Kyle, Miss Smith.

Entrance—Professors Hirst, Carter, Feldman, Edlefsen, Pack.

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

Graduate Work—Professors F. L. West, Greaves, Saxer, Israel-sen, Stewart.

Graduate—Professor O. W. Israelsen.

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

Library—Professors Ricks, Arnold, Wanlass, Stewart, Dozier, Geddes.

Loan Funds—Mr. Berntson, Professors Stewart, Dancy.

Recommendations for Employment—Professors Henry Peterson, Oberhansley, Kewley.

Schedule—Professor Maeser.

Student Affairs—Professor Jenson.

Student Body Organization—Professors N. A. Pedersen, McClel-an, Bailey.

Student Employment—Mr. Burgoyne.

## Experiment Station Staff

1926-1927

WILLIAM PETERSON, B. S.  
Director and Geologist

HYRUM JOHN FREDERICK, D. V. M.  
Veterinarian

JOSEPH EAMES GREAVES, Ph. D.  
Chemist and Bacteriologist

\*WILLIAM ERNEST CARROLL, Ph. D.  
Animal Nutrition

GEORGE BALLIF CAINE, A. M.  
Dairy Husbandry

REUBEN LORENZO HILL, Ph. D.  
Human Nutrition

GEORGE STEWART, Ph. D.  
Agronomist

ORSON WINSO ISRAELSEN, Ph. D.  
Irrigation and Drainage

BYRON ALDER, B. S.  
Poultryman

DAVID STOUT JENNINGS, Ph. D.  
Soils

\*RAYMOND J. BECRAFT, M. S.  
Range Management

WILLARD GARDNER, Ph. D.  
Physicist

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

KENNETH C. IKELER, M. S.  
Animal Husbandman

HERBERT J. PACK, Ph. D.  
Entomologist

PHILIP VINCENT CARDON, B. S.  
Farm Economist

CARRIE C. DOZIER, Ph. D.  
Home Economics

\*Absent on leave.

## AGRICULTURAL COLLEGE OF UTAH

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

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

CHARLES TARRY HIRST, M. S.  
Associate Chemist

DON WARREN PITTMAN, M. S.  
Associate Agronomist

MOYER DELWIN THOMAS, M. A.  
Associate Soil Chemist

TRACY H. ABELL, M. S.  
Assistant Horticulturist

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

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

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

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

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

N. E. EDLEFSEN, M. A.  
Assistant in Physics

CHARLES J. SORENSON, B. S.  
Assistant Entomologist

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

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

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

GEORGE F. KNOWLTON, M. S.  
Assistant Entomologist

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

WILLIAM H. WARNER, B. S.  
Assistant Poultryman

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

JOHN W. CARLSON, B. S.  
 Superintendent Alfalfa-seed Expt. Station, Uintah Basin

RUSSEL E. BERNTSON  
 Secretary and Purchasing Agent

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

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

## Extension Service Staff

WILLIAM PETERSON, B. S.  
 Director

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

RENA BAKER MAYCOCK  
 State Leader, Home Demonstration Work

JAMES CHRISTIAN HOGENSON, M. S. A.  
 Agronomist

BYRON ALDER, B. S.,  
 Poultry

EMIL HANSEN  
 Specialist, Landscape Gardening

SADIE O. MORRIS, M. S.  
 Foods Specialist

AFTON ODELL, B. S.  
 Clothing Specialist

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

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

EFFIE SMITH BARROWS, B. S.  
 Home Management Specialist

KENNETH C. IKELER, M. S.  
 Animal Husbandman

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

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



## AGRICULTURAL COLLEGE OF UTAH

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

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

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

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

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

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

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

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

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

ELLEN AGREN, B. S.  
Assistant Professor, District Extension Agent,  
Weber, Morgan and Summit Counties

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

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

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

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

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

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

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

RUBY SMITH, B. S.  
Assistant Professor, District Extension Agent,  
Wasatch, Utah and Juab Counties

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

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

MYRTLE DAVIDSON, B. S.  
Assistant Professor, District Extension Agent,  
Cache and Box Elder Counties

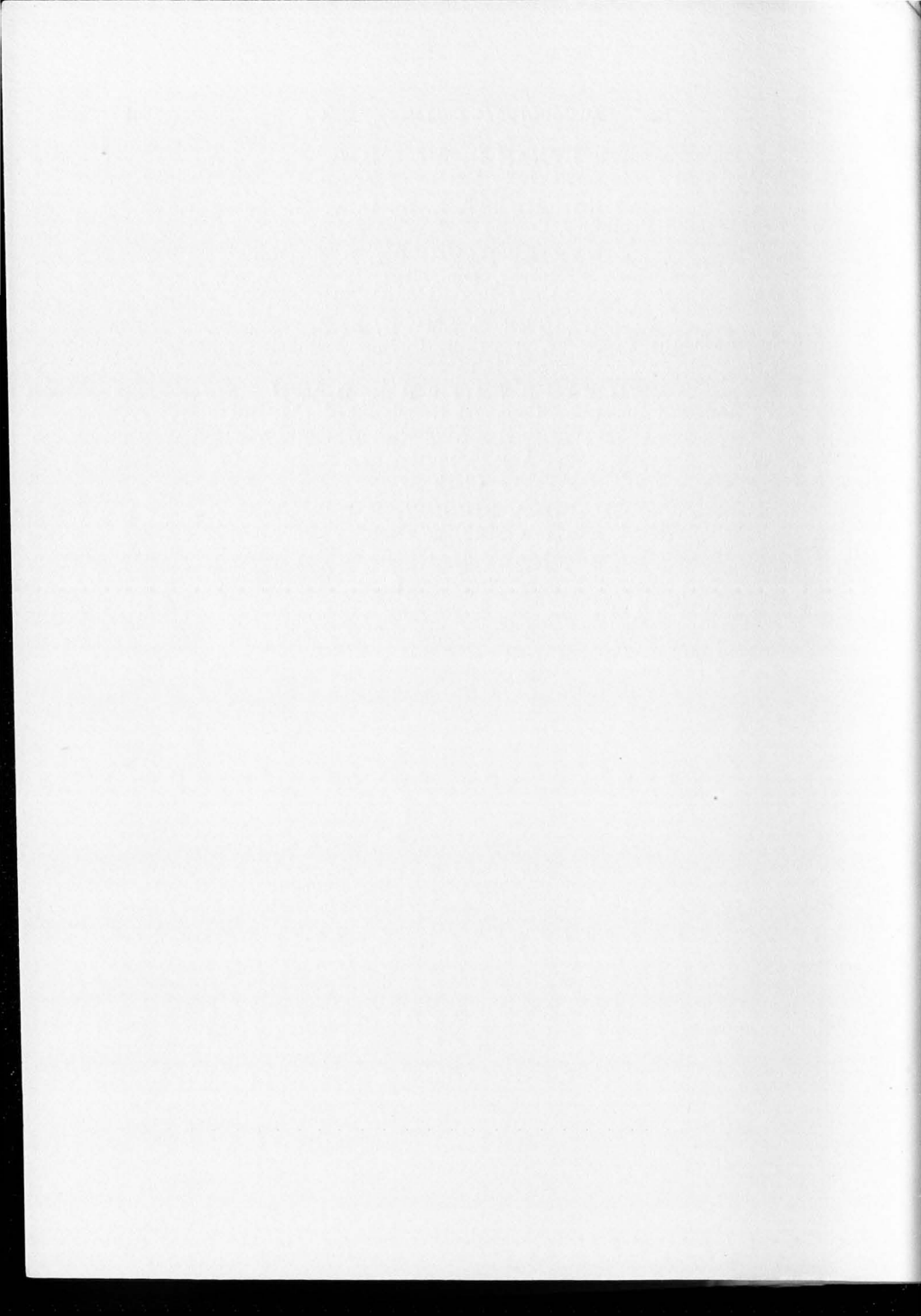
WALTER F. SMITH, B. S.  
Assistant Professor, Assistant County Extension Agent,  
Utah County

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

IDA R. MITCHELL  
Clerk

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

MARY HANSEN  
Stenographer



# Agricultural College of Utah

## LOCATION

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

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

## POLICY

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

that makes for right living, good citizenship and high efficiency.

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

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

## HISTORY

The Agricultural College of Utah was founded March 8th, 1888, when the Legislative Assembly accepted the terms of the national law passed by Congress on July 2nd, 1862. Under this Act of Congress, and the Enabling Act providing for the admission of Utah to the Union, 20,000 acres of land were granted to the State from the sale of which there should be established a perpetual fund, the interest to be used in maintaining the College.

Under the Hatch Act, approved in 1887, the State receives \$15,000 annually for the Experiment Station. Under the Adams Act of 1906, the State receives an additional \$15,000 annually for research work by the Experiment Station. Under the Morrill Act of 1890, amended by the Nelson Act of 1907, the State receives \$50,000 annually for instruction at the Agricultural College. Under the Smith-Lever Act, the State receives annually about \$34,000 for agricultural extension work to be done by the Agricultural College. Under the Purnell Act, the state will receive in 1926-27 an appropriation of \$30,000, which will increase by \$10,000 each year until an annual income of \$60,000 has been reached, for special work in agriculture and home economics.



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

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

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

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

In December, 1918, the Board of Trustees authorized the establishment of an Agricultural Engineering Experiment Station to include the departments of irrigation and drainage, roads, farm machinery and transportation, manufacture of agricultural products, rural architecture and buildings, and rural sanitation and public health. The Utah Agricultural College is the first such institution in the United States to establish an agricultural engineering experiment station as a distinct division.

Since 1917, the Institution has consistently aided the Federal Government in war and post-war programs. During 1917-18, the College trained 492 young men in its Reserve Officers' Training Corps. Six hundred eighty soldier mechanics were trained at the Institution during the summer of 1918. With the establishment at the College in the fall of 1918 of a unit of the Student's Army Training Corps, seven hundred twenty-four men were given collegiate and vocational military training. A large percentage of former U. A. C. students who saw service were commissioned.

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

## GOVERNMENT

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

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

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

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

THE BUDGET COMMITTEE consists of the Deans of the five Schools of the Institution with the Dean of the Faculty as chairman and the Financial Secretary as Executive Secretary.

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

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

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

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

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

**FATHER'S AND MOTHER'S DAY.** On October 24th, 1925, and annually thereafter, the Utah Agricultural College will conduct an open house to all fathers and mothers of students attending the Institution. For 1926, this day will probably be held October 23.

This day has been set aside as a day when parents may see the college at its work and at its play and have an opportunity to meet the faculty, the associates of their sons and daughters and other parents who have entrusted the care of their children to the Utah Agricultural College.

## ORGANIZATION

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

To accomplish this work the following administrative divisions exist, each of which draws upon the departments for its instructional or experimental force:

- I. Instruction on the College Campus—The College Proper.
  1. The School of Agriculture.
  2. The School of Home Economics.
  3. The School of Agricultural Engineering.
  4. The School of Mechanic Arts.
  5. The School of Commerce and Business Administration.
  6. The School of Basic Arts and Science.
  7. The Summer Quarter.

## II. Experimentation.

8. The Agricultural Experiment Station.
9. The Agricultural Engineering Experiment Station.

## III. Instruction beyond the College Campus.

10. The Extension Division.

The instructional and investigational forces with the equipment necessary to carry out the work of the above divisions are organized into departments, of co-ordinate authority, each of which represents a somewhat definite field of knowledge. All officers of instruction or experimentation belong to one or another of these departments. One professor, designated head, carries the administrative responsibility of the department.

# COLLEGE PROPER

## THE SCHOOL OF AGRICULTURE

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

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



must give evidence that he has spent at least one summer at farm work.

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

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

### THE SCHOOL OF HOME ECONOMICS

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

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

The technical work in this school is organized into three departments, each dealing with one of the three equally important and interrelated phases of Home Economics. These are the Departments of Food and Dietetics, Household Administration and Textiles and

Clothing. The course as a whole includes certain foundational courses in science and art that are prerequisites to the technical work and the so-called cultural courses, which must be included both to make a true Home Economics Course and to meet the College graduation requirements. This combination is well designed to fit women for the following professions: (1) Home Keeping; (2) Teaching of Home Economics; (3) Home Economics Extension Work. It also prepares women to hold various positions in the social and industrial organizations.

The completion of the Home Economics course requires four years of college work and leads to the degree of Bachelor of Science.

Special provision is made for courses desired by women who are unable to take the regular course work and yet who desire training in various phases of home economics.

### THE SCHOOL OF AGRICULTURAL ENGINEERING

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

In the past, agricultural colleges have given their attention to the direct questions of farming, but now the entire rural problem must be met. The farm must be a desirable and healthful place to live. The buildings must be so arranged and constructed as to give the maximum of efficiency and comfort and at the same time have proper sanitary provision. The rural roads must be such that the farmer can move his crops with small expense and go to town with comfort and speed. The machinery of the farm must be so constructed and cared for that it will be reliable and work economically. The limited supply of irrigation water must be so used as to produce maximum returns. There must be factories to change

the raw materials of the farm into high-priced finished products. All these necessities demand men trained for them.

To meet the demand, the College has organized a School of Agricultural Engineering designed to enable men to solve all but the most technical engineering problems of an entire rural community. The courses are very helpful to the farmer who does not wish to do the work of a trained engineer.

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

### Suggested Outline of Courses

#### SCHOOL OF AGRICULTURAL ENGINEERING

##### Junior College

Freshman Year:			Sophomore Year:			
F	W	S	F	W	S	
English 10 .....	3	3	Economics 1, 2, 3 ..	3	3	3
Math. 45, 46, 47 .....	5	5	Physics 20, 21, 22 .....	5	5	3
Roads 1 or Irrig. 1 ..	5		Math. 112, 113, 114 ..	3	3	3
Chem. 1 and 2 .....		5	Surveying 2, 3 .....	3		3
Mech. Drawing 11, 12, 13 .....	3	3	Roads 2 .....		5	
			English and Speech I	3		
			Rural Sanitation .....			3
	16	16		17	16	17

##### Senior College

##### Highway Engineering

Junior Year:			Senior Year:			
F	W	S	F	W	S	
Irrigation 101, 103 ..		3	Irrig. 103, 104, 105 ..	5	5	5
Roads 4 .....		3	Mech. 110, 111, 112 ..	3	3	3
Mech. 2, 106, 107 ..	2	5	Roads 102, 103, 107 ..	3	3	3
Irrig. 1 or Roads 1 ..	5		Seminar 104, 105, 106	1	1	1
Mech. 101, 102, 103 ..	5	5	Math. 120, 121, 122 ..	3	3	3
Surveying 102 .....		5				
Biology .....	5			15	15	15
	17	16		16	16	

##### Irrigation and Drainage

Junior Year:			Senior Year:			
F	W	S	F	W	S	
Irrig. 101, 102 .....		3	Irrig. 103, 104, 105 ..	5	5	5
Irrig. 107 .....		3	Biology, Irrig. 230 & Geology 111 .....	5	3	5
Roads 1 or Irrig. 1 ..	5		Math. 120, 121, 122 or	3	3	3
Mech. 2, 106, 107 ..	2	5	Mech. 110, 111, 112 or			
Surveying 102 .....		5	Roads 102, 103, 107 ..			
Agronomy 106 .....	4		Irrig. 110, 111 .....	1	1	
Mech. 101, 102, 103 ..	5	5		17	15	16
	16	16		17	15	16

## THE SCHOOL OF COMMERCE AND BUSINESS ADMINISTRATION

The purpose of the School of Commerce and Business Administration is to give opportunity for liberal education with special emphasis upon the commercial and industrial phases of life. Persons who complete the commercial courses are prepared to assume leadership and responsibility in business and in various industries and professions. In order to meet the growing demands and to keep pace with recent tendencies in business education, students may major in accounting and business practice, agricultural economics, business administration, economics, history, marketing, political science and sociology. A thorough training is offered in shorthand and type-writing for the preparation of teachers and secretaries.

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

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

## THE SCHOOL OF MECHANIC ARTS

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

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

The agricultural student can obtain in the School of Mechanic Arts just the information he needs to enable him to do the constructive work in farm buildings and the repair work necessary in operating machinery, thereby making farm life more profitable and desirable. Those who intend to enter engineering will find no better

preparation than that offered in the mechanic arts courses. In the shops a knowledge of the nature of materials, methods of construction and operation of machinery can be had better than elsewhere. The demand for manual training teachers is far in advance of the supply.

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

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

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

### THE SCHOOL OF BASIC ARTS AND SCIENCE

To carry out the work of the several technical schools of the College, an efficient instructing force and complete modern equipment have been provided in the natural and physical sciences, as well as in English, mathematics, history, language, etc. This makes it possible to satisfy the growing demand for strong baccalaureate courses affording a broad general education in the earlier years and admitting of specialization later. Such courses constitute the work of the School of Basic Arts and Science and, paralleling the other degree courses of the College, lead to the degree of Bachelor of Science.

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

#### Education

By act of the 1921 legislature the Utah Agricultural College is required to add education to its course of study. The purpose is to enable students to prepare for the teaching profession in the broad lines of work represented in the College curriculum. In answer to this demand of the State, the Department of Education was organized in the School of Basic Arts and Science.

All eligible students may enter these courses. Some of them are especially designed to prepare Smith-Hughes teachers in agriculture and home economics and others to prepare extension workers.



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

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

Advanced work is likewise offered to prepare progressive teachers for greater responsibilities in Smith-Hughes work.

### THE NATIONAL SUMMER SCHOOL

The College has conducted a summer session as an important part of its curriculum for over twenty years. In 1924 it conducted the first annual session of the National Summer School. The purpose of this great educational undertaking is to bring to Logan, with its delightful summer climate and its many recreational and vocational features, each year the greatest educators of the nation and thus to build, in the inter-mountain west, one of the greatest national summer schools.

During the Summer Quarter each department of the College is represented, the courses of instruction being arranged to meet the particular needs of summer students. For the benefit of teachers, numerous courses in education are provided by the Department of Education as part of the regular work of the College. Students desiring to make up conditions or prepare for advanced work are given all assistance possible. The entire equipment of the institution is available for the summer session and every care is taken to preserve the standard and the spirit of the College.

### THE EXPERIMENT STATION

*The Agricultural Experiment Station* is a division of the College, supported by Federal and State appropriations, supple-

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

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

The Station confines its efforts as far as possible to the particular problems of the inter-mountain region. Irrigation, the foundation of western agriculture, has received greatest attention. Elaborate experimental plats have been equipped where the value of different quantities of water and methods of application have been studied and the underlying principles brought out.

Dry-farming problems are only second in importance to those of irrigation in the development of the West. A number of experimental dry-farms are maintained on which every effort is made to increase production. Many of the present investigations involve water holding capacity of soils, the water requirements of crops, the movement of plant foods and other questions fundamental to all systems of agriculture.

Other problems vitally affecting the agriculture of the West are under investigation. Alkali, the big problem of all arid and semi-arid countries, is receiving considerable attention. Breeding experiments for the improvement of sugar beets, potatoes, cereals, alfalfa and poultry are in progress. Insect pests and plant diseases affecting western crops and orchards are under constant surveillance. The micro-organisms of the soil which have recently been found to be an important factor in agriculture are being studied. The development of better cropping methods, the dairy industry and the range lands of the State are receiving attention together with various livestock rations. Plant disease, horticultural and soil surveys are now in progress. Among the last projects to be

started are human nutrition investigations and a study of the farm management problems of Utah.

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

The Experiment Station has a high educational value. Nearly all of the staff are also members of the College faculty; the students, therefore, receive at first hand an account of the methods and results of the work of the Station, as well as training in their application. The opportunities that the Station offers for advanced work in several branches of science are of great importance. The scientific method and spirit characterize all its operations and none can fail to be benefited by a study of the experiments that go on at all times of the year.

The Station is always glad to assist advanced students in any investigations they wish to undertake.

## THE AGRICULTURAL ENGINEERING EXPERIMENT STATION

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

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

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

### THE EXTENSION DIVISION

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

#### *Administration*

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

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

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

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

County home agents are maintained in a number of counties and cities of the State. The purpose of this work is to develop and carry out a definite program of home improvement which is done by working through organizations and by individual calls as far as possible. This work is carried on through the home section of the farm bureaus.

County work is maintained for the purpose of supervising and assisting the boys and girls in carrying out definite farm and home projects. Under this plan the primary purpose is to develop leadership and train the boys and girls in better methods of farm and home practice.

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

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

Scope: Courses offered:

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

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

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

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

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

6. Preparatory or high school course.

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

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

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

## ADMISSION

Entrance to the freshman class is based upon a certificate of graduation from an accredited high school, or upon the presentation of 15 approved high school units of work, or upon examination, in case of students of special training not obtained in high school. *Prospective students are strongly urged to send a record of their credits to the Registrar at least two weeks before the opening of school.* Students who expect to become candidates for the Bachelor's Degree from any of the Schools of the College must include the following prescribed units among those presented for entrance.

English—3 units

Algebra—1 unit

Geometry—1 unit

Social Science—1 unit

Natural Science—1 unit

(Requiring laboratory work)

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

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

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

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

**CLASS STANDING.** Thirty-six hours (36) of approved college work, in addition to the prescribed entrance requirements, are required for Sophomore rank; ninety hours and Senior College Standing for Junior rank (see page 48) and one hundred thirty hours and Senior College Standing for Senior rank. The foregoing requirements are to be exclusive of the required courses in Physical Education and Drill.

**REGISTRATION.** The fall quarter opens Monday, September 27; the winter quarter, Monday, January 3; the spring quarter Monday,



March 21; and the 1927 summer quarter, Monday June 13. It is of decided advantage to register upon the opening date. The amount of work for which any student will be allowed to register will be reduced by one and one-half credit hours for each week or fraction thereof that the student is late in registration.

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

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

The collegiate work of the institution is divided into two divisions; Junior College and Senior College.

## THE JUNIOR COLLEGE

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

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

Junior College students will not be allowed to enter Senior College courses, except in meritorious cases and upon formal application approved by both the Dean and the Instructor of the course. Senior College credit will not be given to Junior College students before they have completed 90 hours of College work.

### REQUIREMENTS FOR JUNIOR RANK

1. Two year Military Science. (Men). Two years Physical Education. (Men and Women.)

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

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

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

c. The completion of an additional 15 hours of work in one school, (in the school of Basic Arts and Science in one group or in the department of education) this work to represent a continuation of the high school major, if one has been selected or, if not of some subject taken in the Senior year at high school. The aim of this requirement is to prepare the student for his major work in the Senior College.

3. The presentation of the following high school units for entrance:

- a. English .....three units
- b. Algebra .....one unit
- c. Geometry .....one unit
- d. Social Science .....one unit
- e. Natural Science .....one unit

(Requiring laboratory work.)

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

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

### THE SENIOR COLLEGE

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

## GRADUATION

### REQUIREMENTS FOR THE BACHELOR'S DEGREE

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

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

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

2. The completion of 180 credits of work (excluding credits of Military Science and Physical Education) of which at least 75 must be obtained after the attainment of Senior College standing.

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

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

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

Students who have satisfied part of their requirements by taking correspondence and extension courses should communicate with the chairman of the committee on graduation to determine the specific requirements for graduation in such cases.

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

## SPECIFIC REQUIREMENTS FOR THE BACHELOR'S DEGREE

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

### The School of Agriculture

#### *Technical Division*

Major Subject .....30 hours  
(At least one-half Senior College Credit)

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

Minor Subjects .....18 hours

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

#### *General Division*

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

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

Electives ..... 48 hours

These electives are entirely at the disposal of the student.

### The Schools of Agricultural Engineering and Mechanic Arts

#### *Technical Division*

Major Subject .....30 hours  
(At least one-half Senior College credit.)

Thirty hours forming a major subject must be chosen by the candidate in some one department of the school in which the student expects to graduate. The student must consult with the professor in charge of his major subject and secure his approval of the proposed combination of courses. This should be done as early as

possible and must be done not later than the beginning of the Senior Year.

Minor Subject .....18 hours

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

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

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

*General Division*

Biological Science Group ..... 9 hours

Exact Science Group .....18 hours

Language Group .....12 hours

Social Science Group ..... 9 hours

Special Group (general) .....18 hours

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

Electives .....42 hours

These electives are entirely at the disposal of the student.

**THE SCHOOLS OF COMMERCE AND BUSINESS ADMINISTRATION, HOME ECONOMICS AND BASIC ARTS AND SCIENCE**

*Technical Division*

Major Subject .....30 hours

(At least one-half Senior College credit.)

Thirty hours forming a major subject must be chosen by the candidate in some one department in the school in which he expects to graduate. The student must consult with the professor in charge of his major subject and secure his approval of the proposed combination of courses. This should be done as early as possible and must be done not later than the beginning of the Senior Year.

Minor Subject .....18 hours

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

*General Division*

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

Exact Science Group .....	18 hours
Language Group .....	24 hours
Social Science Group .....	18 hours
Special Group .....	18 hours

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

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

These elective are entirely at the disposal of the student.

### MAJORS, MINORS AND GROUPS

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

#### Technical Division

Major, 30 hours in one department.

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

Special Group. In the Schools of Agricultural Engineering and Mechanics Arts the dean will designate thirty hours in a special technical group.

#### *School of Agriculture*

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

#### *School of Agricultural Engineering*

Art (minor only)	Irrigation and Drainage
Agricultural Surveying	Rural Architecture
Farm Mechanics	Rural Sanitation
Highway Engineering	



*School of Commerce and Business Administration*

Accounting and Business Practice	Marketing
Agricultural Economics	Political Science
Art (minor only)	Sociology
Business Administration	Stenography (minor only)
Economics	Typewriting (minor only)
History	

*School of Home Economics*

Art (minor only)	Household Administration
English (minor only)	Music (minor only)
Foods and Dietetics	Textiles and Clothing

*School of Mechanic Arts*

Art	Machine Work
Automobile Work	Technology of Mechanic Arts
Iron Work	Woodwork
Mechanical Drawing	

*School of Basic Arts and Science*

Advanced Military Science (minor only)	Geology
Art	History
Bacteriology	Library Work (minor only)
Botany	Mathematics
Chemistry	Music
Education	Physical Education
English	Physics
Entomology	Physiology
Foreign Languages	Political Science
	Zoology

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

**General Division**

*Biological Science Group (18 Hours)*

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

Bacteriology	Physiology
Botany	Veterinary Science
Entomology	Zoology

*Exact Science Group (18 Hours)*

Accounting (101, 102, 103, 107)	Mathematics
Chemistry	Physics
Geology	

*Language Group (24 Hours)*

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

English and Speech	Latin
French	Spanish
German	

*Social Science Group (18 Hours)*

(9 hours in the Schools of Agricultural Engineering and  
Mechanic Arts.)

Agricultural Economics	Marketing
Business Administration	Political Science
Economics	Sociology
History	

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

*Special Group (18 Hours)**Electives (42 Hours)*

(48 hours in the Schools of Agriculture and of Commerce  
and Business Administration.)

**GRADUATION WITH HONORS**

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

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

1. Completion of 48 credit hours in the four basic groups, namely: biological science, exact science, social science and language, and not less than 9 credit hours in each of these groups, provided that a candidate in the School of Agricultural Engineering shall have 9 credit hours in each of the groups except biological science.

2. Showing of superiority in the proposed major field.

3. Grades as follows at the time of application for candidacy for graduation with honors:

a. Not less than 50 per cent of the credit hours "A" grade.

b. Not less than 85 per cent of the credit hours "A" and "B" grade.

c. No grade used for eligibility for honors work lower than "C."

4. Written approval by the major and minor departments.

5. Presentation to the College Council by the Graduation Committee together with a two-thirds favorable vote of the Council not earlier than the end of the sophomore year nor later than the beginning of the second quarter of the Junior Year. (For graduation with honors in the spring of 1927, students may be approved as late as the fall quarter of 1926-27.)

#### Departmental Plans and Requirements for Honors Work

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

#### Requirements for the Bachelor's Degree with Honors

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

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

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

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

## GRADUATION AT THE CLOSE OF THE SUMMER QUARTER

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

## REQUIREMENTS FOR THE MASTER'S DEGREE

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

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

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

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

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

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

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

## STUDENT EXPENSES

Students must pay the following fees upon registration:

### UTAH STUDENTS

	Three Quarters	Winter and Spring Quarters	Winter Quarter Only	Spring Quarter
Registration fee .....	\$10.00	\$10.00	\$10.00	\$10.00
Tuition .....	27.00	18.00	9.00	9.00
Library fee .....	3.00	3.00	3.00	3.00
Gymnasium fee .....	3.00	2.00	1.00	1.00
Student Body fee .....	15.00	12.00	10.00	7.00
Withdrawal deposit ...	1.00	1.00	1.00	1.00
	<hr/>	<hr/>	<hr/>	<hr/>
	\$59.00	\$46.00	\$34.00	\$31.00

### STUDENTS FROM OTHER STATES

	Three Quarters	Winter and Spring Quarters	Winter Quarter Only	Spring Quarter
Registration fee .....	\$35.00	\$35.00	\$35.00	\$35.00
Tuition .....	27.00	18.00	9.00	9.00
Library fee .....	3.00	3.00	3.00	3.00
Gymnasium fee .....	3.00	2.00	1.00	1.00
Student Body fee ....	15.00	12.00	10.00	7.00
Withdrawal deposit ...	1.00	1.00	1.00	1.00
	<hr/>	<hr/>	<hr/>	<hr/>
	\$84.00	\$71.00	\$59.00	\$56.00

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

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

The Utah Agricultural College has been designated by law as an institution where units of the Reserve Officers' Training Corps

are maintained. As such it has promised the Government to give certain military instruction of a definite kind and character.

The student, by registration at the Institution, obligates himself to conform to such requirements as are or may be prescribed by the College Council under the regulations of the Reserve Officers' Training Corps. These requirements, at present, are as follows: Two years of required military training, followed by two years of optional military training. Free uniforms are furnished by the War department to those taking the required work. Those taking the last two years receive, in addition to free uniforms, commutation of subsistence. The requirements will vary slightly according to the military units in which the student registers.

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

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

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

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

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

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

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



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

	Low	Average	Liberal
Tuition, books, fees, etc. ....	\$ 94	\$ 94	\$ 94
Room and Board .....	200	250	300
Incidentals or Miscellaneous .....	75	100	150
Total .....	\$369	\$445	\$544

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

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

### SELF HELP

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

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

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

### SCHOLARSHIPS AND AWARDS

*The Johansen Scholarship Fund* of \$5,000, a gift of the late Mrs. Johana Johansen, provides three scholarships annually, worth in the aggregate from \$300 to \$350, for help of worthy students of Junior or Senior rank. Applications for this scholarship must

be filed with the chairman of the committee on honors and awards before April 15 for the succeeding year.

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

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

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

The basis of the award is as follows:

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

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

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

(a) Character, 20 points.

(b) Scholarship, 15 points.

(c) College Activity, 15 points.

(d) Leadership, 20 points.

(e) Aptitude for and interest in Military Science, 20 points.

(f) Physique and bearing, 10 points.

*The Rhodes Scholarships*. Special attention is called to the Rhodes Scholarships in Oxford University, England, to which one appointment from the State of Utah will be made for 1927. The scholarships are each of the value of approximately \$1,500.00 a

year, and are tenable for three years. Full information and application blanks may be secured at the President's office.

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

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

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

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

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

- (a) Qualities of Womanhood.
- (b) Evidence of application of Home Economic Principles in every relation of daily life.
- (c) Proficiency in scholastic attainments.

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

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

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

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

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

## BUILDINGS

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

*The Main Building* is 360 feet long, 200 feet deep in the central part and four stories high. It contains the large auditorium, seat-

ing about 1,500, the administrative offices, the library and many class rooms and laboratories.

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

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

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

*The Mechanic Arts Building*, a two-story brick structure, has a floor area of 40,000 square feet and contains the wood-working department, machine shops, forging rooms, foundry, carriage building rooms, mechanic arts museum, drafting rooms, blue-printing room, room for painting and staining and class rooms—all well equipped.

*Widtsoe Hall*, containing three stories, thoroughly modern in plan and equipment, is occupied by the Department of Chemistry, physics and Bacteriology.

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

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

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

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

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

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

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

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

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

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

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

## EQUIPMENT

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

*The Chemical Laboratories* are modern and thoroughly equipped.

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

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

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

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

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

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

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

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

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

*The College Museum* contains many specimens illustrative of geology, mineralogy, paleontology and vertebrate and invertebrate zoology, including a large series of plants of the western mountain region and an extensive series of plants of the western highlands. An extensive collection of grains represents the produce of Utah and other states. Contributions of fossils, ores, animals, plants, relics or other material of value to the museum, are appreciated. All gifts are labeled and preserved and the name of the donors are recorded.

*The Art Rooms*, composed of six studios, are supplied with plain and adjustable tables, easels and model stands, individual lockers, cases for materials, casts from the old masters in sculpture, reproductions of great paintings, still-life models and draperies, as well as with a valuable collection of ceramics, textiles and books on art.

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



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

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

Immediately east of the Main building is the quadrangle of about ten acres. The Adams athletic field is one-fourth mile west of the campus. Plans for a large athletic stadium to be located just north of the campus are complete and the fall of 1926 should see this new home for U. A. C. athletic contests nearly complete. The farms comprise 97 acres, the orchards and the small fruit and vegetable gardens, 10 acres.

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

The equipment of the Branch Agricultural College is described in the circular of that institution.

## THE STUDENT BODY ORGANIZATION

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

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

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

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

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

The annual oratorical contests for the Hendricks medal and for that given by The Sons of the American Revolution maintain among the students an active interest in extemporaneous public speaking. For dates of these contests, see college calendar, page 5.

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

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

## STUDENT CLUBS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

*The Quill Club*, an organization of writers.

*The Cosmos Club*, organized for the study of present day problems; open only to men.

*The Tennis Club*, organized to promote interest in tennis and to develop players for intercollegiate matches.

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

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

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

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

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

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

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

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

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

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

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

# Departments of Instruction

(ARRANGED ALPHABETICALLY)

Agricultural Economics and Marketing	Foods and Dietetics
Agricultural Engineering	Geology
a. Agricultural Surveying	History
b. Applied Mechanics and Design	Horticulture
c. Highway Engineering	Household Administration
d. Rural Architecture	Irrigation and Drainage
Agronomy	Mathematics
Animal Husbandry	Mechanic Arts
a. Poultry Husbandry	a. Forging and General Blacksmithing
Art	b. Machine Work
Bacteriology and Physiology	c. Mechanical Drawing
Botany	d. Woodwork and House-building
Business Administration and Accounting	Military Science and Tactics
a. Accounting	Modern Languages and Latin
b. Advertising and Selling	Music
c. Business Administration	Physical Education
d. Secretarial Work	a. For Men
Chemistry	b. For Women
Dairy Husbandry	Physics
Economics and Sociology	Political Science
Education and Psychology	Textiles and Clothing
English and Speech	Veterinary Science
Farm and Auto Mechanics	Zoology and Entomology
a. Auto Mechanics	
b. Farm Mechanics	
c. Ignition, Starting and Lighting	
d. Oxy-acetylene, Electric Arc and Resistance Welding	
e. Tractor Repair and Operation	

## RECITATION TABLE

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

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



# Courses of Instruction

## AGRICULTURAL ECONOMICS AND MARKETING

W. L. WANLASS, *Professor*

R. M. RUTLEDGE, *Associate Professor*

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

Students in the School of Agriculture may present credits in any of the following courses toward a major in this Department: Agronomy 101, and 106; Animal Husbandry 1 and 102; Economics 1, 2, 3.

Students in the School of Commerce and Business Administration may submit credits in any of the following courses toward a major in this Department: Accounting 101, 102 and 103, Agronomy 101, and 106; Animal Husbandry 1 and 101; Economics 1, 2, and 3; Business Administration and Accounting Courses in this Department require for a major: 101, 102, 105, 106, 111, 112 and 113.

### SENIOR COLLEGE COURSES

101. PRINCIPLES OF AGRICULTURAL ECONOMICS. A general course in the principles and problems of agricultural economics including production on the farms, consumption of the products of the farms and the distribution of the agricultural income. Prerequisites, Economics 1, 2 and 3. Fall quarter. Three credits.

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

*Rutledge*

102. FARM ADMINISTRATION. A general course in the principles of management applied to farming. A study of the problems involved in choosing, buying, planning, organizing and managing a farm. Discussions of proper size, balance, diversity and general economics of farm business. Prerequisites, Economics 1, 2 and 3. Winter quarter. Three credits.

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

*Rutledge*

103. TYPES OF FARMING. A study of the natural and economic factors affecting types of farming in Utah, and the United States and other countries, to determine the most profitable types for given times and conditions, and the needed adjustments in types to meet changing conditions. Prerequisite, Agricultural Economics 101 and 102. Three credits.

(Not given in 1926-27)

105. FARM FINANCE AND CREDIT. A study of the credit needs of farmers and methods of meeting these needs. This involves a study of bank credit and agriculture, the Federal Farm Loan Act, the Federal Intermediate Credits Act, cooperative credit and any new legislature needed to provide for financing adequately the farming business of the country. Prerequisite, Economics 1, 2 and 3 and Agricultural Economics 101 and 102. Spring quarter. Three credits.

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

*Rutledge*

106. LAND ECONOMICS. A study of such important problems of land economics as the following: (1) the history of nations as affected by their land policies, (2) the concept of private property in land, (3) land classification, (4) land utilization, (5) land valuation, (6) land taxation, (7) land settlement and its relationship to water and irrigation institutions, (8) land ownership and tenancy and their desirability and disadvantages, (9) ranges and ranch land, (10) economics of forest land, and (11) transportation and the use of land. Open only to senior and graduate students. Three credits.

(Not given 1926-27)

111. PRINCIPLES OF MARKETING. This course will cover the basic facts necessary to a clear understanding of the problems in marketing. Supply and demand of farm products, prices and production, the economic relations of the farmer, the middleman and the consumer receive special consideration. Prerequisites, Economics 1, 2, 3. Fall quarter.

M. W. F. 11:00. Room 177 Main.

*Wanlass*

112. MARKETING OF FARM PRODUCTS. Problems of marketing specific farm products such as livestock, grain, potatoes, hay, dairy products, etc., will be studied from the standpoint of the economic forces which give rise to such problems. Possibilities of improvement of the present system will be considered. Prerequisites, Economics 1, 2, 3 and Agricultural Economics and Marketing 111. Winter quarter. Three credits.

M. W. F. 11:00. Room 177.

*Wanlass*

113. ADVANCED MARKETING. In this course the fundamental principles underlying the present distributive system will be studied carefully. The case method will be used. Special attention will be given to specific marketing problems, particularly those of cooperative associations. Spring quarter. Three credits.

M. W. F. 11:00. Room 177.

*Wanlass*

#### GRADUATE COURSES

207. TENANCY. History and extent of farm tenancy in the United States. Experience of European countries with tenancy problems. Tenancy as a social institution. Tenancy as a step in the

economic ladder of progress of farmers. Evils of tenancy. Suggested methods of diminishing or eliminating the evils of tenancy. Methods of renting farms. Types of farming and the farm lease contract. Essentials of a good farm lease. Prerequisite, Agricultural Economics 102. Spring quarter. Two credits.

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

Time and credit to be arranged with instructors.

*Wanlass and Rutledge*

211, 212, 213. SEMINAR. All senior and graduate students majoring in this department are required to take part in these round table discussions of current problems and recent publications in Agricultural Economics and Farm Management. Fall, Winter and Spring quarters. One credit each quarter.

Th. 7:20 p. m. Room 177 Main.

*Wanlass and Rutledge*

**AGRICULTURAL ENGINEERING.** (See page 167.)

AGRICULTURAL SURVEYING. (See page 167.)

APPLIED MECHANICS AND DESIGN. (See page 168.)

HIGHWAY ENGINEERING. (See page 170.)

RURAL ARCHITECTURE. (See page 171.)

## AGRONOMY

GEORGE STEWART, *Professor.*

DON WARREN PITTMAN, *Associate Professor.*

DAVID STOUT JENNINGS, *Associate Professor.*

MOYER DELYN THOMAS, *Associate Professor.*

AARON F. BRACKEN, *Assistant Professor.*

DELMAR C. TINGEY, *Instructor.*

NOTE: Students who major in Agronomy are expected to take courses 1, 2 or 3, 106, 108, 109, 111, 112, 113, 104 or 110; one of these three: 114, 116, 117; and enough additional courses to make 30 credits. Irrigation 1 and Agricultural Economics 102 are recommended in the minor; one of these may, if desired, be used in the major group, provided the grade obtained is "B" or better.

## JUNIOR COLLEGE COURSES

1. CEREAL CROPS. The history, cultivation, production and marketing of cereal crops; a basis for judging and grading plant products. Must be preceded or accompanied by Botany 21, 22, 23. Winter quarter. Four credits.

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

*Tingey*

2. ROOT CROPS. Sugar-beets, potatoes, mangles, turnips, other root crops, and beans; cultural methods, market types, and commercial possibilities are studied in detail. Must be preceded or accompanied by Botany 21, 22, 23. Fall quarter. Four credits.

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

*Tingey*

3. FORAGE AND MISCELLANEOUS CROPS. Alfalfa, clovers, grasses and other crops; method of handling hay; meadow, and pasture management and soiling crops are discussed. Must be preceded or accompanied by Botany 21, 22, 23. Spring quarter. Four credits.

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

*Stewart and Tingey*

## SENIOR COLLEGE COURSES

101. GENERAL CROPS. Essentials in the production of principal field crops; small grains, corn, potatoes, sugar-beets, alfalfa and pastures. Designed for those students not majoring in Agronomy who wish minimum work in crops. Courses 1, 2 or 3 are offered. These recommended for Agronomy majors instead of course 101. Prerequisites, Chemistry and Botany 1, or 21. Spring quarter. Four or five credits.

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

*Pittman*

104. WEEDS, SEEDS AND GRADING. Common weeds of Utah and methods of eradicating them; the quality and care of seeds; market classes and grades of grain, seeds, hay and potatoes. Prerequisites, Botany, Agronomy 1 and 2 or 3 (or101), some horticulture preferred. Fall quarter. Two credits.

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

*Tingey*

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

Time to be arranged.

*Tingey*

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

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

*Pittman*

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

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

*Pittman*

109. PLANT BREEDING. Varieties of field crops; their selection and improvement; attention to the methods of plant breeding as practiced in America and Europe. Prerequisites, Agronomy 1 or 101, Zoology 111; and Botany 21, 22, 23. Winter quarter. Four credits.

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

*Stewart and Tingey*

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

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

*Pittman*

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

Friday 2:10 to 3:30. Room 203 Plant Ind. *The Department*

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

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

*Bracken*

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

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

*Bracken*

117. GEOGRAPHY OF AGRICULTURE. Relation of geography to present agricultural development; where plant and animal products are produced; why only in the present regions; a survey of the United States with respect to possible new agricultural development; effect of the relative position of the large markets to agriculture, especially in Utah. Winter quarter. Two to five credits. Alternates with course 114.

T. Th. S. 10:00.

(Not given in 1926-27.)

## GRADUATE COURSES

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

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

*Pittman*

208. MANAGEMENT OF ARID SOILS. Special problems in the management of arid soils. Original papers are considered in addition to regular lectures and discussions. Winter quarter. Three to six credits.

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

*Pittman*

209. ADVANCED PLANT BREEDING. The science and practice of plant breeding. Original papers and lectures. Winter quarter. Three to six credits.

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

*Stewart and Tingey*



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

*Pittman*

212. **GRADUATE SEMINAR.** Current scientific papers and topics in Agronomy. Fall, Winter, or Spring quarter. One to three credits. Friday 2:10 to 3:30. Room 203 Plant Ind.

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

*Stewart and Pittman*

214. **HISTORY OF AGRICULTURE.** Development of scientific agriculture with emphasis on recent period. Original papers and lecture material. Winter quarter. Two to five credits.

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

*Bracken*

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

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

*Stewart*

217. **GEOGRAPHY OF AGRICULTURE.** Relation of geography to production and to development of agriculture. Winter quarter. Two to five credits.

T. Th. S. 10:00.

(Not given 1926-27)

218. **SPECIAL SOIL PROBLEMS.** Students desiring to make a special study of any particular soil problem will make a complete study of available literature on this problem under the supervision of the instructor and write a thesis. One to five credits. Prerequisite, Agronomy 106 and either General Bacteriology or General Geology. Any quarter.

*Pittman*

219. **PHYSICAL CHEMISTRY OF THE SOIL.** This course and the one following are designed to develop the science of edaphology and are intended primarily for students expecting to specialize in soils.

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\*Students who are interested in technical study may be assigned to Experiment Station laboratories where they will be under the direction of Associate Professors Jennings or Thomas. Each of these men has been granted permission to teach one short course. Advanced students are referred to courses 219 and 220.

The theoretical aspects of soils will be treated with particular reference to the physical and chemical nature of the mineral and organic particles, and their relation to the phenomena of water-holding power, supply of plant nutrients, soil alkali, and soil structure. The colloidal theory of soils will be emphasized.

Prerequisites, General and Organic Chemistry. Seniors admitted on approval. Winter quarter. Two credits.

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

*Thomas*

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

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

*Jennings*

221. PRINCIPLES OF AGRONOMIC RESEARCH. How to attack a research problem; securing reliable data; studying and analyzing data; writing a scientific paper. Required of graduates. Open to approved Seniors.

(Not given 1926-27)

*Stewart*

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

Crops and plant Breeding.

*Stewart, Bracken, Tingey*

Soils.

*Pittman, Jennings, Thomas*

## ANIMAL HUSBANDRY

KENNETH C. IKELER, *Professor.*

GEORGE B. CAINE, *Professor.*

ALMA ESPLIN, *Assistant Professor.*

The following courses are required of students majoring in Animal Husbandry: 1, 2, 103, 105, 106, and 125. Courses in Veterinary Science, Dairy and Poultry Husbandry, Agronomy, Horticulture, Irrigation and Drainage, Farm Mechanics, Agricultural Economics and Farm Marketing, are among the courses strongly recommended for graduation in Animal Husbandry.

## JUNIOR COLLEGE COURSES

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

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

*Caine*

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

*Caine*

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

Daily except Sat. 10:00. Room 207 Livestock. *Ikeler*

6. BEEF CATTLE PRODUCTION. The practical methods of beef production, including a consideration of range practice, feeding for market, fitting for show, and general care and management. Fall quarter. Three credits.

T. Th. S. 9:00. Room 207 Livestock. *Ikeler*

7. HORSE HUSBANDRY. Market types, handling of breeding and growing horses, fitting for show and sale and practical methods of handling and training horses. Spring quarter. Three credits.

T. Th. S. 9:00. Room 207 Livestock. *Ikeler and Caine*

8. SWINE MANAGEMENT. The management of the breeding herd, fattening for market and fitting for show. Winter quarter. Three credits.

T. Th. S. 9:00. Room 207 Livestock. *Caine*

9. SHEEP HUSBANDRY. General care on range and farm, fattening for market, fitting for show and work in grading and sorting wool. Winter quarter. Three credits.

T. Th. S. 9:00. Room 208 Livestock. *Esplin*

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

Hours to be arranged. *Esplin*

## SENIOR COLLEGE COURSES

101. LIVESTOCK MANAGEMENT. Practice in care and management of livestock and fitting for show and sale. Open only to a limited number of advanced students in Animal Husbandry. Laboratory work at barns. Winter quarter. Credit and hours to be arranged.

*Ikeler and Caine*

102. PRACTICE FEEDING. (Open only to students not majoring in Animal Husbandry.) How the animal uses its feed; classes of feeds, compounding of rations for different purposes and for different classes of animals. Prerequisites, Agronomy 1 and 3 or 101. Fall quarter. Five credits.

Daily except Saturday 8:00. Room 207 Livestock.

*Ikeler*

103, 104. ANIMAL NUTRITION. The anatomy and physiology of the digestive system; the purpose of nutrition; the theory and practice of feeding, with special reference to Utah conditions. Prerequisites, Organic Chemistry or Physiology 1 and Agronomy 101. Winter and Spring quarters. Five credits each quarter.

Daily, except Sat. 8:00. Room 207 Livestock.

*Ikeler*

105. LABORATORY COURSE. Laboratory work including the actual feeding of different classes of livestock for different purposes can be arranged for a limited number of students.

Time and credit to be arranged.

*Ikeler and Caine*

106. PRINCIPLES OF BREEDING AND HERD BOOK STUDY. An application of the principles of breeding to practical breeding operations; the place of animal breeding on the farm; methods of selection; aids to selection; grading; cross breeding; line breeding; inbreeding; herd books; pedigrees of noted individuals of the important breeds. Prerequisites, Zoology 111 (Genetics.) Spring quarter. Five credits.

Daily except S. 9:00. Room 207 Livestock.

*Ikeler*

107. ADVANCED STOCK JUDGING. The judging of groups of animals of all classes. Attendance at the State Fair and at all accessible county fairs is required. Prerequisites, Animal Husbandry 1 and 2. Fall quarter. Three credits.

Lab. M. T. Th. 2:00 to 5:00. Barns.

*Caine*

108. WOOL LABORATORY. Practice in scouring and grading wool. Caliper and microscopic measurement of wool fibers. Chemical study of wool, laboratory exercises and reading assigned. Prerequisites, Chemistry 1, 2, or 3, 4, 5. Winter quarter. Three credits.

Two lectures and one laboratory. Hours to be arranged.

*Esplin*

120. RESEARCH. Advanced students may elect research work in any phase of animal husbandry.

Time and credit to be arranged with the department.

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

M. 2:00. Room 207 Livestock.

*Caine*

### POULTRY HUSBANDRY

BYRON ALDER, *Associate Professor.*

W. H. WARNER, *Instructor.*

### JUNIOR COLLEGE COURSES

1. GENERAL POULTRY. A study of breeds, judging, breeding, incubation, brooding, housing, feeding and marketing. Fall, Winter or Spring quarter. Four credits.

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

*Alder*

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

M. W. F. 11:00. Room 205 Livestock.

*Alder*

3. GENERAL POULTRY. This course is planned to meet the needs of Home Economics students. Not given unless six students apply. Spring quarter. Two credits.

T. Th. 10:00. Room 205 Livestock.

*Warner*

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

M. W. 9:00. Room 205 Livestock.

*Alder*

8. TURKEYS, DUCKS AND GEESE. A study of the breeds, breeding, feeding, marketing, etc. Winter quarter. Two credits.

T. S. 10:00. Room 205 Livestock.

*Warner*

### SENIOR COLLEGE COURSES

105. POULTRY MANAGEMENT. The housing, care, feeding and management of different breeds under western conditions. Prerequisite, Poultry 1. Winter quarter. Three credits.

M. W. F. 9:00. Room 205 Livestock.

*Alder*

106. BREEDS AND BREEDING. The origin and development of the breeds and varieties of poultry; practice in judging; a review of the literature on breeding for utility and exhibition. Prerequisite, Poultry 1. Winter quarter. Three credits.  
(Not given in 1926-27.)

107. POULTRY FEEDS AND FEEDING. A study of nutrition problems; the feeds and methods of feeding. Prerequisite, Poultry 1 or 2. Winter quarter. Three credits.  
M. W. F. 10:00. Room 205 Livestock. *Warner*

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

126. SEMINAR. Current poultry literature studied; assigned problems and special topics. Winter quarter. One credit.  
T. 1:00. Room 205 Livestock. *Alder and Warner*

127. POULTRY PRACTICE. Special practice at the poultry yards. Time and credit to be arranged. *Alder and Warner*

## ART

CALVIN FLETCHER, *Professor.*

H. R. REYNOLDS, *Instructor.*

### JUNIOR COLLEGE COURSES

1. NATURE APPRECIATION. Study of beauty in natural form with a view of its use in design. Fall quarter. Room 330 M. Three credits.

Sec. 1. M. W. F. 10:00. *Reynolds*

Sec. 2. M. W. F. 11:00. *Reynolds*

2. DESIGN. General principles of design in pattern and color, color theory, etc. Winter quarter. Room 330 M. Three credits.

Sec. 1. M. W. F. 10:00. *Reynolds*

Sec. 2. M. W. F. 11:00. *Reynolds*

3. ART APPRECIATION. Art principles as applied to costume, interior decoration, painting, sculpture and architecture will be discussed. Spring quarter. Room 330 M. Three credits.

Sec. 1. M. W. F. 10:00. *Reynolds*

Sec. 2. M. W. F. 11:00. *Reynolds*



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

*Fletcher*

31. ART IN COMMERCE. Design in advertising. Commercial illustration, posters, display, lettering, etc., will comprise the course. It is recommended to students of commerce, show card and illustration. Fall quarter. Three credits.

T. Th. S. 8:00. Room 330 Main.

*Fletcher*

32. COLOR IN BUSINESS ART. The Equipment and Use of Color by Sargent will be used as a text. A thorough study of color will be taken up. Recommended for students in Commerce and all students specializing in art or any who desire a good understanding and appreciation of color. Winter quarter. Three credits.

T. Th. S. 8:00. Room 330 M.

*Fletcher*

33. HISTORY AND APPRECIATION OF ART. Survey of the great achievements of art throughout the ages together with analysis of modern technical processes necessary to the understanding of present day paintings, sculpture, and architecture. Recommended to students of Commerce and all others interested in understanding the work of the great artists of all time. Spring quarter. Three credits.

T. Th. S. 8:00. Room 355 M.

*Fletcher*

#### SENIOR COLLEGE COURSES

122. HOME PLANNING, CONSTRUCTION AND DESIGN. The principles of home design, garden design, house construction, heating, sanitary equipment, etc., together with painting, color and wood finishing will comprise the course. Fall quarter. Room 355 M. for lecture.

T. Th. S. 10:00.

*Fletcher*

123. INTERIOR DECORATION. Decoration and furnishing of interiors including furniture, walls, tableware, pottery, pictures, flowers and the practical assembling of all features which go to make the home beautiful. Winter quarter. Room 355 M. for lecture. Three credits.

T. Th. S. 10:00.

*Fletcher*

It is recommended that students elect 111 parallel or following Art 122 and 123 for laboratory work in the field.

124. PERSPECTIVE THEORY. The principles of cylindrical, parallel and oblique perspective as used in drawing will be covered. Spring quarter. Room 330 Art. Three credits.

M. W. F. 10:00.

*Fletcher*

#### STUDIO COURSES

Conducted as individual laboratory work. Three hours work each week required for each credit granted. Two, three or more credits

may be taken each quarter, but not more than the maximum credit indicated will be granted. Students must file their studio hour schedule with the professor in charge of the course during the first week of their attendance.

All studio courses may be taken up any quarter and are given in the Art Studios on 3rd floor, Main Building.

One or more examples of student's work may be retained during the succeeding year for exhibition.

Special instruction in anatomy for art students will be given during the first hour on Friday throughout the year.

Special instruction in Poster design will be given the first hour on Tuesdays throughout the year. It is recommended that show card as well as advertising illustration students try to arrange to attend this work.

A sketch class will be organized to work out of doors on Wednesday afternoons during the Fall and Spring quarters. Any medium may be used within the range of the student's ability. It is recommended especially to painting, drawing and illustration students.

All studio courses may be taken Mondays, Tuesdays, Wednesdays and Fridays, from 2 until 5.

#### JUNIOR COLLEGE COURSES

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

*Fletcher*

5. ELEMENTARY PAINTING. In water color, oil, or pastel. Maximum 15 credits. Room 330 E.

*Fletcher*

6. ELEMENTARY MODELING. From antique and nature. Maximum 15 credits. Room 328.

*Fletcher*

7. ILLUSTRATION. Elementary illustration and processes for newspapers, books and magazines. Maximum 12 credits. Room 355 E.

*Fletcher*

8. EMBROIDERY DESIGN. Design for embroidery, lace weaving, etc. Maximum 6 credits.

*Reynolds*

9. HISTORIC ORNAMENT. Egyptian, Assyrian, Greek, French, and Renaissance may be studied. Maximum 9 credits. Room 330 E.

*Reynolds*

10. SHOW CARD AND ELEMENTARY SIGN LETTERING. Maximum 12 credits. Room 330 D.

*Fletcher*

11. POTTERY. Elementary, including building, turning, glazing, firing, etc., such as may be done with a limited equipment. Maximum 2 credits. Room 328.

*Reynolds*

12. CHINA PAINTING. Elementary painting processes. Prerequisites, Art 1, 2, 3 or equivalent. Maximum 12 credits.

*Fletcher*

13. COPPER WORK. Simple exercises in sawing, raising, and repousse. Maximum 12 credits. Room 332.

*Reynolds*

14. LEATHER WORK. Elementary etching, dying, cutting and tooling in leather mats, purses, bags, etc. Maximum 6 credits. Room 330 A.

*Reynolds*

15. BASKETRY. Weaving processes in reed, raffia and grass. Maximum 9 credits. Room 330 A.

*Reynolds*

16. ENAMELING. Work on glass, wood, ivory, etc. Maximum 9 credits. Room 330 A.

*Reynolds*

17. FABRIC DECORATION. Elementary stencilling, tie and dye, block-printing and Batik. Maximum 9 credits. Room 330 A.

*Reynolds*

#### SENIOR COLLEGE COURSES

106. ADVANCED DRAWING. Life drawing from draped figures, animal drawing and advanced antique. Maximum 15 credits. Room 330 E.

*Fletcher*

108. ADVANCED PAINTING. Oil, water color, or pastel may be used. Maximum 30 credits.

*Fletcher*

109. ADVANCED MODELING. From animals or living models. Room 328. Maximum 30 credits.

*Fletcher*

110. ADVANCED ILLUSTRATION. Newspaper, magazine, costume and decorative illustration, illumination, poster work, or cartooning may be pursued. Maximum 15 credits. Students will pursue one line at a time. Room 330 E.

*Fletcher*

111. PROFESSIONAL DESIGN. Design for textiles, wall paper, interior decoration, furniture, etc. One line to be taken at a time. Maximum 12 credits. Room 330 E.

*Fletcher*

112. ADVANCED COSTUME DESIGN. Prerequisites, Textiles 105, 111. Maximum 6 credits. Room 330 F.

*Fletcher*

113. ADVANCED SHOW CARD AND TECHNICAL SIGN WORK. Maximum 12 credits. Room 330 D.

*Fletcher*

114. FANCY LETTERING AND ILLUMINATION. Pen lettering and decoration for memorials, documents, Christmas greetings, place cards, etc. Maximum 12 credits.

*Reynolds*

115. ADVANCED CHINA DECORATION. Incrusted work, enamelling, lustre, and paste to be taken up. Maximum 15 credits. Room 330 A.

*Fletcher*

116. ADVANCED ART METALRY. Maximum 18 credits. Room 332.

*Reynolds*

117. JEWELRY. Sawing, wire work, filligree, stone setting, enameling, soldering, etc., will be taken up with brooches, rings, lavaliers, pins, chains, etc. Maximum 18 credits. Room 332.

*Reynolds*

118. ADVANCED LEATHER WORK. Tooling, carving, mounting and finishing. Maximum 12 credits. Room 330 A.

*Reynolds*

119. ADVANCED WOOD ORNAMENTATION. Carving, inlay, scraf-fito, jesso, etc. Maximum 18 credits. Room 332.

*Reynolds*

120. ADVANCED FABRIC DECORATION. Advanced work in Batik, dyeing, stencilling and block-printing. Maximum 15 credits. Room 330 A.

*Reynolds*

#### GRADUATE COURSES

206. ADVANCED DRAWING. From animals, life and close anatomical analysis. Room 330 E.

*Fletcher*

208. ADVANCED PAINTING. Landscape or portrait may be pursued. Room 330 E.

*Fletcher*

209. ADVANCED MODELING. Original projects in sculpture to be carried out. Room 328.

*Fletcher*

211. PROFESSIONAL DESIGN. Interior decoration, or commercial design may be taken up. Room 330 F.

*Fletcher*

## BACTERIOLOGY AND PHYSIOLOGY

J. E. GREAVES, *Professor.*

E. G. CARTER, *Assistant Professor.*

CHARLOTTE E. DANCY, *Assistant Professor.*

### JUNIOR COLLEGE COURSES

1. GENERAL BACTERIOLOGY. This course deals with the biology and significance of bacteria. The following are considered: the development of bacteriology; the morphology and physiology of bacteria; bacteria in air, food, and water, and the role they play in the arts and industries. Where possible this course should be accompanied by Bacteriology 2.

Section 1. Fall quarter. Three credits.

M. W. F. 9:00. Third floor, Widtsoe Hall.

*Greaves*

Section 2. Fall quarter. Three credits.

M. W. F. 10:00. Third floor, Widtsoe Hall.

*Greaves*

Section 3. Winter quarter. Three credits.

T. Th. S. 9:00. Third Floor, Widtsoe Hall.

*Greaves*

2. GENERAL BACTERIOLOGY. (Laboratory) This should accompany Bacteriology 1. Breakage deposit, \$2.50.

Section 1. Fall quarter. Two credits.

W. F. 2:00 to 5:00. Third floor, Widtsoe Hall.

*Carter*

Section 2. Winter quarter. Two credits.

W. F. 2:00 to 5:00. Third floor, Widtsoe Hall.

*Carter*

3. PATHOGENIC BACTERIOLOGY. The pathogenic bacteria are considered in relation to disease. The subject of immunity is stressed. Prerequisite, Bacteriology 1. Breakage deposit, \$2.50. Winter quarter. Five credits.

T. Th. S. 11:00. Lab. W. F. 2:00 to 5:00.

*Carter*

4. ANATOMY AND PHYSIOLOGY. A study of the structure and function of the human body. Third floor, Widtsoe Hall.

Section 1. Fall quarter. Five credits.

Daily except Saturday 9:00.

*Carter*

Section 2. Winter quarter. Five credits.  
Daily except Saturday 9:00. *Dancy*

Section 3. Spring quarter. Five credits.  
Daily except Saturday 9:00. *Dancy*

\*14. HEALTH EDUCATION. (may be used for certification.) The laws and principles of hygiene are stressed in relation to the school. The teaching of health in the schools receives special consideration.

Third floor, Widtsoe Hall.  
Section 1. Fall quarter. Three credits.  
T. Th. S. 10:00. *Carter*

Section 2. Winter quarter. Three credits.  
T. Th. S. 8:00. *Carter*

\*15. PERSONAL HEALTH AND PHYSICAL DEVELOPMENT. (may be used for certification.) How to keep physically fit. A study of the principles underlying the health and well-being of the individual.

Third floor, Widtsoe Hall.  
Section 1. Winter quarter. Three credits.  
T. Th. S. 10:00. *Carter*

Section 2. Spring quarter. Three credits.  
T. Th. S. 8:00. *Carter*

#### SENIOR COLLEGE COURSES

101. PHYSIOLOGY. An advanced course in special phases of physiology. Special emphasis will be placed upon the structure and function of the nervous system. Three credits. Spring quarter.  
M. W. F. 10:00. Third floor, Widtsoe Hall.

*Carter*

102. SOIL BACTERIOLOGY. Bacteria are considered in relation to soil fertility. The class will be conducted much as a seminar. Graduate students should arrange with the professor in charge for graduate credit and register for 202. Not given in 1926-27 unless called for by at least ten properly prepared students. Prerequisite, Bacteriology 1. Fall quarter. Three credits.

T. Th. S. 9:00. Widtsoe Hall. *Greaves*

103. SOIL BACTERIOLOGY. Methods used in bacteriological investigations. Should accompany Bacteriology 102. Prerequisites, Bacteriology 1, 2, and Chemistry 103. Breakage deposit \$2.50. Fall quarter. Three credits.

W. F. 2:00 to 5:00. Third floor, Widtsoe Hall.

*Greaves*

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\*These courses cannot be included as part of the requirements in the biological science group.



104. DAIRY BACTERIOLOGY. (Lecture.) The bacteria of milk, butter and cheese. Prerequisite, Bacteriology 1. Winter quarter. Two credits.

T. Th. 8:00. Third floor, Widtsoe Hall.  
(Not given 1926-27.)

105. DAIRY BACTERIOLOGY. (Laboratory.) Methods used in the bacteriological examination of milk and dairy products. This should accompany Bacteriology 104. Prerequisites, Bacteriology 1 and 2. Breakage deposit, \$2.50. Winter quarter. Two credits.

W. F. 2:00 to 5:00. Third floor, Widtsoe Hall.  
(Not given 1926-27.)

106, 107. APPLIED ANATOMY AND PHYSIOLOGY OF EXERCISE. Prerequisite, Physiology 4. Fall and Winter quarters. Three credits each quarter.

M. W. F. 10:00. Third floor, Widtsoe Hall. *Carter*

108, 109. PUBLIC HEALTH AND HYGIENE. (May be used for certification). This course deals with the physical and mental health of the individual and his relationship to other members of the community. Some of the subjects considered are: Nature and prevention of diseases; food in its relationship to the well-being of the individual; heating, ventilation; occupational diseases; and especially the promotion of health through education. Prerequisite, Bacteriology 1. Winter and Spring quarters. Three credits each quarter.

M. W. F. 10:00. Third floor, Widtsoe Hall. *Greaves*

110. SANITARY STATISTICS. Vital statistics showing effect of sanitary precautions upon health in cities and rural communities. Prerequisites, Bacteriology 1, 108, 109. Two credits.

T. Th. 8:00. Third floor, Widtsoe Hall.  
(Not given in 1926-27.)

111. PHYSIOLOGICAL CHEMISTRY. The transformation going on in the plant and animal. Prerequisites, Chemistry 21 and 22. Spring quarter. Five credits.

Daily, Except Saturday 9:00. Third floor, Widtsoe Hall. *Greaves*

112. PHYSIOLOGICAL CHEMISTRY. A laboratory course which may accompany Bacteriology 111. Breakage deposit, \$2.50. Spring quarter. Two credits.

T. Th. 2:00 to 5:00. Third floor, Widtsoe Hall. *Greaves*  
(Not given in 1926-27.)

113, 114, 115. BIOCHEMISTRY. A study of the chemical transformation going on in the animal body. The class will be conducted much as a seminar. Graduate students should arrange with the professor in charge for graduate credit and register for 213, 214, and

215. Two credits each quarter. May not be given in 1926-27 unless called for by at least ten properly prepared students. Fall, Winter and Spring quarters.

T. Th. 11:00. Third floor, Widtsoe Hall. *Greaves*

116. SANITARY ANALYSIS. Methods used by the sanitary inspector in examining water, milk and other foods. Prerequisites, Chemistry 103, and Bacteriology 1 and 2.

Time and credit to be arranged.

(Not given in 1926-27.) *Greaves*

### GRADUATE COURSES

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

Time and credit to be arranged. Third floor, Widtsoe Hall.

*Greaves and Carter*

208, 209, 210. SEMINAR. Fall, Winter and Spring quarters.

Time and credit to be arranged. Third floor, Widtsoe Hall.

*Greaves*

### BOTANY

B. L. RICHARDS, *Professor*.

F. B. WANN, *Associate Professor*.

\*R. J. BECRAFT, *Assistant Professor*.

H. L. BLOOD, *Instructor*.

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

### JUNIOR COLLEGE COURSES

1. GENERAL BOTANY. A brief study of the nature and development of plants; plant parts and their functions; the food of plants; the relation of plants to human needs.

Sec. 1. Fall and Winter quarters. Three credits each quarter.

Lec. M. F. 9:00. Lab. T. or Th. 2:00 to 5:00. Rooms 105, 102 Plant Ind.

*Blood*

Sec. 2. Spring quarter. Five credits. Lec. M. W. F. 9:00. Lab. T. Th. 2:00 to 5:00, or W. F. 2:00 to 5:00. Rooms 105, 102 Plant Ind.

*Richards and Blood*

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\*On leave of absence.

Sec. 3. Spring quarter. Lec. T. Th. S. 9:00. Labs. and credit as in section 2. Rooms 105, 102 Plant Ind.

*Richards and Blood*

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

Lec. Sec. 1. M. W. F. 8:00. Sec. 2. Lec. T. Th. S. 8:00. Labs. for both sections M. and Th. or W. and F.

*Wann*

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

### SENIOR COLLEGE COURSES

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

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

*Richards*

102. SYSTEMATIC BOTANY. A continuation of course 101. Individual work with particular families or floras. Summer quarter. Prerequisite, Botany 101.

Two or three credits, according to work done.

*Richards*

105. AGROSTOLOGY. The grasses: structure, classification and economic relationships. Prerequisite, Botany 101. Fall quarter. Two credits. Lec. T. 11:00. Lab. T. 2:00 to 5:00. Plant Ind.

(Not given in 1926-27.)

111. PLANT MORPHOLOGY. Life histories and structural relationship of plants representative of the four big groups. The course is so organized as to give a broad view of the processes of evolution. Spring quarter. Three lectures and two laboratory periods. Five credits.

(Not given in 1926-27.)

116. CYTOLOGY. Course in cytological technique designed especially for research students and teachers of Botany.

*Richards and Wann*

118. ENGINEERING BOTANY AND DENDROLOGY. Principles underlying an understanding of the structures and mechanical properties of wood; economic woods, their identification and uses. Three lectures and two laboratory periods. Winter quarter.

(Not given in 1926-27.)

120, 121. PLANT PHYSIOLOGY. An advanced course dealing with plant nutrition, factors influencing absorption, food manufacturing, metabolism, growth and reproduction. Prerequisites, Botany 21, 22 and 23. Fall and Winter quarters. Three credits.

Lec. T. Th. S. 9:00. Room 101. Plant Ind. *Wann*

126. PLANT ECOLOGY. Distribution and structural adaptation of plants as affected by environmental factors. Occasional field trips. Prerequisites Botany 120 and 121. Spring quarter. Three credits.

Lec. T. Th. S. 9:00. Room 101 Plant Ind. *Wann*

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

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

*Richards*

132. PLANT DISEASE CONTROL. Principles underlying the exclusion, the eradication of and the protection against plant diseases, with special emphasis on immunity, quarantine regulations, sprays and spraying operations. Prerequisites, Botany 130 and 131. Spring quarter. Two credits. Time to be arranged.

*Richards*

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

Time to be arranged.

*Richards*

### RANGE AND FORESTRY

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

### JUNIOR COLLEGE COURSES

71. RANGE. History, economic relations, improvement, protection, handling livestock. Spring quarter. Four credits. Three lectures. One laboratory.

(Not given in 1926-27.)

*Becraft*

80. FORESTRY. A brief survey of forestry practice, regions, tree species, management, protection, local problems. Winter quarter. Four credits. Three lectures. One laboratory.  
(Not given in 1926-27.) *Becraft*

## SENIOR COLLEGE COURSES

172. NATIONAL FOREST ADMINISTRATION. History, organization, regulations of the U. S. Forest Service, with emphasis on grazing. Winter quarter. Three credits. Three lectures. Alternates with course 181.

(Not given in 1926-27.) *Becraft*

176. ADVANCED RANGE. Forage plants, reconnaissance, grazing working plans, research methods. Prerequisites, Botany 71 and 101. Winter quarter. Four credits. Three lectures. One laboratory.

(Not given in 1926-27.) *Becraft*

181. SILVICULTURE. Forest influences, distribution, regeneration, care, improvement. Winter quarter. Three credits. Three lectures.

(Not given in 1926-27.) *Becraft*

## GRADUATE COURSES

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

Time to be arranged. *Richards*

240, 241, 242. SEMINAR. Fall, Winter and Spring quarters. One or two credits each quarter. Room 101 Plant Ind.

Time to be arranged.  
*Richards, Wann, Becraft  
and Blood*

250. RESEARCH. Open to all qualified Senior college students in plant physiology, plant pathology, and range management.

*Richards, Wann and Becraft*

## BUSINESS ADMINISTRATION AND ACCOUNTING

P. E. PETERSON, *Professor.*

W. L. WANLASS, *Professor.*

\*D. E. ROBINSON, *Professor.*

HENRY PETERSON, *Professor.*

R. M. RUTLEDGE, *Associate Professor.*

W. E. THAIN, *Assistant Professor.*

THELMA FOGELBERG, *Instructor.*

Accounting 101, 102, 103 and 107 may be used to satisfy in part the group requirements in exact science. No other courses in accounting may be so used.

### ACCOUNTING

#### JUNIOR COLLEGE COURSES

1. **TECHNIC OF BOOKKEEPING.** Development of the principles of debit and credit, function of the account, technic of entry and posting, preparation and interpretation of financial statements and closing the books. Partnership accounting. (This course is not required of students who have had one year or more of bookkeeping practice.)

Three lectures per week with assigned problems. A complete practice set will be required. Four credits.

Fall quarter, Sec. 1. M. W. F. 8:00. Room 302 Main.

Sec. 3. T. W. Th. 2:00. Room 302 Main.

Winter quarter, Sec. 2. T. W. Th. 2:00. Room 302 Main.

*Thain*

2. **ADVANCED TECHNIC.** A complete practice set which develops the problems of corporation accounting, the voucher system and factory accounting without cost records. Prerequisite, Course 1 or its equivalent. Three lectures. Four credits.

Winter quarter, Sec. 1. M. W. F. 8:00. Room 302 Main.

Spring quarter, Sec. 2. T. W. Th. 2:00. Room 302 Main.

*Thain*

3. **COST ACCOUNTING TECHNIC.** An elementary study of the principles and methods of cost accounting in the factory. Three lectures and a practice set. Prerequisite, Courses 1 and 2 or equivalent. Four credits. Spring quarter.

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

*Thain*

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\*On leave of absence.



4. FARM BOOKKEEPING. Application of bookkeeping methods to the farm enterprise. Single and double entry. Interpretation of the records. Three lectures and adequate practice sets. Four credits. Fall quarter.

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

*Thain*

5. DAIRY PLANT ACCOUNTING.

(Not given 1926-27. Will be given 1927-28.)

*Thain*

6. MACHINE BOOKKEEPING. Instruction in the correct operation of the Burroughs Posting Machine. Accuracy and speed secured. Four practice hours a week. Fall, Winter or Spring quarters. One credit. Room 303 Main.

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

Lec. M. W. F. 2:00.

*Fogelberg*

7. CALCULATOR OPERATION. Methods of correct addition, multiplication and subtraction on calculators. Accuracy and speed secured. Three practice hours each week. Fall quarter. One credit. Practice hours to be arranged with instructor. Room 303 Main.

Lec. M. W. 2:00.

*Fogelberg*

8. CALCULATOR OPERATION. Methods of multiplication, extending and checking invoices, and discount. Accuracy and speed secured. Three practice hours each week. Winter quarter. One credit. Room 303 Main. Practice hours to be arranged with instructor.

Lec. M. W. 2:00.

*Fogelberg*

9. CALCULATOR OPERATION. Methods of division. Accuracy and speed secured. Three practice hours each week. Spring quarter. One credit. Room 303 Main. Practice hours to be arranged.

Lec. M. W. 2:00.

*Fogelberg*

10. ADVANCED CALCULATOR OPERATION. Practical problems in different kinds of business. Fall, Winter and Spring quarters. One credit each quarter. Practice hours to be arranged.

Lec. T. F. 2:00.

*Fogelberg*

11, 12, 13. ACCOUNTING SYSTEMS. A study of the application of the principles of accounting to the problems of specific lines of business, such as banks, retail stores, hotels, garages, foundries, milk distribution, etc. Two lectures and assigned problems. Two credits.

T. Th. 3:00. Room 302 Main.

*Thain*

## SENIOR COLLEGE COURSES

101, 102, 103. PRINCIPLES OF ACCOUNTING. This is essentially a course in theory with practice reduced to a minimum. The emphasis will be placed upon the interpretation of accounts. It is aimed particularly to serve the needs of the general student in whatever department of the school he may be registered. It is necessarily a basic course for students majoring in accounting. Graduate credit may be allowed for this course upon the completion of additional prescribed work. Lectures and assigned problems. Fall, Winter and Spring quarters. Three credits each quarter.

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

*P. E. Peterson*

104, 105. C. P. A. PROBLEMS. A selection of the problems used by the various state boards of accountancy and the American Institute of Accountants. Three credits each quarter. Winter and Spring quarters.

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

*Thain*

107. HOUSEHOLD ACCOUNTS. The practical application of accounting practice to home management problems. Lectures and assigned problems. Spring quarter. Four credits. Room 302 Main.

T. Th. S. 8:00.

*P. E. Peterson*

108. HOUSEHOLD ACCOUNTING PRACTICE. Students who have successfully completed course 107 may, with the approval of the instructor, register for this course. It is the aim of this course to furnish the opportunity for additional practice in the actual keeping of household accounts and in the control of household expenses through budgeting. Assigned problems and reports. One credit each quarter. Fall, Winter and Spring quarters.

*P. E. Peterson*

111, 112. INDUSTRIAL COST ACCOUNTING. A detailed study of the principles of cost accounting as applied to the manufacturing industry, with particular stress upon methods of burden distribution and interpretation of cost statistics. Lectures with assigned problems and cases.

(Not given in 1926-27. Will be given 1927-28.)

*Thain*

120, 121, 122. AUDITING. A study is made of the theory and practice of auditing. Rules of professional conduct and the duties and responsibilities of auditors are emphasized. A considerable time will be devoted to the mechanics of auditing, the preparation of field notes and the final report. A student may in the Winter or Spring quarter, subject to the approval of the instructor, register for an additional credit a quarter of actual field practice. Graduate credit may be allowed upon the completion of additional work. Prerequisite, Principles of Accounting or the equivalent. Lectures and assigned cases. Three credits a quarter.

Lec. M. W. 11:00. Room 302 Main.

*P. E. Peterson*

124. SEMINAR. A reading and research course designed for seniors and graduates majoring in accounting. Current articles are assigned for reading and report. Juniors may be admitted upon approval of the instructor. Required of all majors in accounting. One credit per quarter. A maximum of six credits will be allowed. Lectures and reports.

Mon. from 2 to 4 P. M. Room 302 Main.

*P. E. Peterson and Thain*

## BUSINESS ADMINISTRATION

### JUNIOR COLLEGE COURSES

25, 26, 27. APPROACH TO BUSINESS PROBLEMS. This course approaches the problems of business administration from the standpoint of the chief executive. It aims at such a uniform classification of business activities as will provide the student of business with a scientific method of approach to business problems in whatever form they may arise. Fundamentals will first be discussed followed by the application of these principles to selected typical cases. It is intended to serve as a guide to the study of the more specific problems of factory, retail store merchandizing and sales management problems. Lectures and assigned cases. Fall, Winter and Spring quarters. Two credits each quarter. Room 302 Main.

M. W. 9:00.

*P. E. Peterson*

### SENIOR COLLEGE COURSES

125. MODERN SCIENTIFIC MANAGEMENT. A brief survey of the nature and achievements of Scientific Management including its contributions to industrial and social problems. A major subject in business administration. Lectures and assigned cases. Fall quarter. Three credits.

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

*P. E. Peterson*

126. INDUSTRIAL MANAGEMENT. A study of the fundamentals of sound management, which must be developed prior to granting attention to more spectacular phases. Specific attention is given to the problems of organization, standardization, job analysis, incentive wages, industrial relations, and to the various mechanisms and devices for the control of operations. Prerequisite course 125. A major subject in Business Administration. Lectures and assigned cases. Winter quarter. Three credits. Room 302 Main.

M. W. F. 8:00.

*P. E. Peterson*

127. BUDGETS. This course involves a very careful study of the need for budgetary control, of the preparation of departmental budgets and their co-ordination with the master plan or financial budget, the application of budgetary control to manufacturing, merchandising and non-commercial enterprises. Lectures and assigned cases. Spring quarter. Three credits.

(Not given 1926-27.)

*P. E. Peterson*

128. BUSINESS FINANCE. This course treats of the structure of the corporate enterprise; providing capital for a new company; expansion of existing companies; recapitalization and reorganization of the corporation; financial and operating ratios will be discussed. Proper financial plans and methods of marketing securities will also be considered. Prerequisite, Economics 1, 2, 3 or equivalent. Fall quarter. Three credits.

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

*Thain*

129, 130. INVESTMENT ANALYSIS. This course takes up a study of the different classes of securities on the market, first, from the standpoint of the industry issuing it, showing suitable methods of analysis; second from the standpoint of its desirability as an investment. Determination of the income yields. Types of investments suitable for different classes of investors. Credit will not be given except upon completion of the two quarters of work. Winter and Spring quarters. Six credits.

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

*Thain*

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

(Not given 1926-27. Will be given 1927-28.)

*Thain*

132. BUSINESS FORECASTING. The uncertainty which now attends the outcome of business undertakings constitutes the principal defect of the modern business system. In recent years science has been applied to this field. There is now a great body of material which, if properly understood and used, would be of inestimable value in forecasting business conditions. The aim of this course will be to acquaint students with principles of business forecasting, the business cycle and the various business barometers. Prerequisites, Economics 1, 2, 3 or 120, 121 and Business Administration 1, 2. Alternates with Business Administration 111. Fall quarter. Three credits.

M. W. F. 9:00.

*Wanlass*

## ADVERTISING AND SELLING JUNIOR COLLEGE COURSES

51. PRINCIPLES OF SALESMANSHIP. Designed to meet the needs of students who want a general knowledge of the principles underlying selling. Demonstration sales. Spring quarter. Three credits.

M. W. F. 10:00.

*Rutledge*

52, 53. INDUSTRIAL PSYCHOLOGY. The application of the principles of psychology to the problems of industry. Employment, sel-

ection of personnel, training of workmen, individual and plant morale, psychological factors underlying industrial efficiency, merchandising, etc. Prerequisite, Education 1. Winter and Spring quarters. Two credits each quarter.

M. W. 10:00.

*H. Peterson*

### SENIOR COLLEGE COURSES

151. PRINCIPLES OF MERCHANDISING. The object of this course is to familiarize the students with the principles and methods of marketing merchandise and to give them training in the analysis of typical selling problems that are of frequent occurrence in a wide variety of industries and trades. Marketing methods and policies of distribution of consumer's and industrial goods. A study is made of consumer's buying habits and motives; methods and costs of retail distribution and methods and costs of wholesale distribution. Prerequisite, courses 125, 126. Lectures and cases. Spring quarter. Three credits. Room 302 Main.

M. W. F. 8:00.

*P. E. Peterson*

154. PRINCIPLES OF ADVERTISING. Designed to meet the needs of all students in business who want a general knowledge of advertising. The literature of advertising; the makeup of advertisements for newspapers and magazines; some experience in the writing of advertisements. Prerequisites, or parallel, Economics 1, 2, 3 or 120, 121, and Business Administration 52, 53. Fall quarter. Three credits.

M. W. F. 10:00.

*Rutledge*

155. WRITING ADVERTISEMENTS. The preparation of advertising copy, the layout of advertisements, typography, media, rates, etc. Prerequisite, Business Administration 154. Three credits.

(Not given 1926-27.)

*Robinson*

156. ADVERTISING CAMPAIGNS. An advanced course covering the planning and execution of advertising campaigns, the duties of the advertising manager and the function of the advertising agency. Prerequisite, Business Administration 154. Winter quarter. Three credits.

M. W. F. 10:00.

*Rutledge*

157. BUSINESS LETTERS. An advanced course covering a study of the business letter, including sales, credit, collection and complaint letters and letters of application. Prerequisite, English 10. Fall quarter. Two credits.

(Not given 1926-27.)

*Robinson*

158. DIRECT MAIL ADVERTISING. An advanced course covering booklets, inclosures, house organs, etc., but excluding sales letters, which are covered in Business Administration 157. Prerequisite, English 10. Winter quarter. Two credits.

(Not given 1926-27.)

*Robinson*

159. DIRECT MAIL ADVERTISING. A continuation of Business Administration 158. This course includes a study of business reports and correspondence supervision. Prerequisite, English 10. Spring quarter. Two credits.

(Not given 1926-27.)

*Robinson*

160, 161. RETAIL STORE MANAGEMENT PROBLEMS. The aim of this course is to present, by means of carefully selected and co-ordinate cases, the management problems of retail stores. The problems studied include accounting, statistics, organization, merchandise, selling, stock, buying, personnel, finance, price policies, and general administrative policies. The case method. Fall and Winter quarters. Three credits each quarter.

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

*P. E. Peterson*

171. ADVERTISING AND SALES PROBLEMS. A course in special advertising and sales problems. The student may take up any phase of the subject for which he is adequately prepared. No student may register for this course without first securing the permission of the instructor in charge. Any quarter. Credit will be allowed in proportion to the amount of work for which the student registers. Graduate credit will be granted where the student is qualified to pursue graduate work.

Hours to be arranged.

(Not given 1926-27.)

*Robinson*

## SECRETARIAL WORK

### Stenography

### JUNIOR COLLEGE COURSES

75, 76, 77. ELEMENTARY STENOGRAPHY. Thorough drill in the fundamental rules of the Isaac Pitman system of shorthand. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 11:00.

*Fogelberg*

78, 79. ELEMENTARY STENOGRAPHY. Thorough drill in the fundamental rules of the Gregg system of shorthand. Winter and Spring quarters. Four credits each quarter.

M. T. W. F. 3:00.

*Fogelberg*

80, 81, 82. ADVANCED STENOGRAPHY. Thorough review of the principles and drill in the attainment of speed. Open to both Gregg and Isaac Pitman students. Fall, Winter and Spring quarters. Three credits each quarter.

T. Th. S. 11:00.

*Fogelberg*



Typewriting  
JUNIOR COLLEGE COURSES

Students must consult with instructor in order to arrange for sections.

86, 87, 88. BEGINNING COURSE. Correct fingering and proper manipulation of the machine. Fall, Winter and Spring quarters. One credit each quarter. Room 303 Main.

Students are required to register in two sections and only two and are required to register so that they can have practice five days a week.

Sec. 1. M. W. F. 8:00	Sec. 6. T. Th. 8:00
Sec. 2. M. W. F. 9:00	Sec. 7. T. Th. 9:00
Sec. 3. M. W. F. 10:00	Sec. 8. T. Th. 10:00
Sec. 4. M. W. F. 11:00	Sec. 9. T. Th. 11:00
Sec. 5. M. W. F. 2:00	Sec. 10. T. Th. 2:00

89, 90, 91. SECOND YEAR COURSE. Daily exercises in which accuracy and speed are attained. Fall, Winter and Spring quarters. One credit each quarter. Room 303 Main.

Students are required to register in two sections and only two and are required to register so that they can have practice five days a week.

Sec. 1. M. W. F. 8:00	Sec. 6. T. Th. 8:00
Sec. 2. M. W. F. 9:00	Sec. 7. T. Th. 9:00
Sec. 3. M. W. F. 10:00	Sec. 8. T. Th. 10:00
Sec. 4. M. W. F. 11:00	Sec. 9. T. Th. 11:00
Sec. 5. M. W. F. 2:00	Sec. 10. T. Th. 2:00

92, 93, 94. ADVANCED TYPEWRITING. Advanced speed work and intensive drill in tabulation. Fall, Winter and Spring quarters. One credit each quarter. Room 303 Main.

Students are required to register in two sections and only two and are required to register so that they can have practice five days a week.

Sec. 1. M. W. F. 8:00	Sec. 6. T. Th. 8:00
Sec. 2. M. W. F. 9:00	Sec. 7. T. Th. 9:00
Sec. 3. M. W. F. 10:00	Sec. 8. T. Th. 10:00
Sec. 4. M. W. F. 11:00	Sec. 9. T. Th. 11:00
Sec. 5. M. W. F. 2:00	Sec. 10. T. Th. 2:00

## CHEMISTRY

R. L. HILL, *Professor*.

C. T. HIRST, *Associate Professor*.

SHERWIN MAESER, *Associate Professor*.

Students desiring to major in chemistry should consult with the head of the department as soon as possible, since departmental approval is necessary for graduation. Courses 102, 103, 104, 105, 106, 160 and six additional hours of senior college work are required for a major.

## JUNIOR COLLEGE COURSES

1, 2. INORGANIC CHEMISTRY. A beginning college course in general chemistry giving an elementary preparation for the application of the principles of chemistry to agriculture, foods, the industries and in daily life. Students majoring in chemistry or in science or desiring premedical credit should register for Chem. 3, 4 and 5.

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

*Maeser*

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

*Hill*

3, 4, 5. INORGANIC CHEMISTRY. A more complete course in inorganic chemistry, including a beginning in qualitative analysis. Prerequisites, high school chemistry or physics. Fall, Winter and Spring quarters. Five credits each quarter.

M. W. F. 9:00. Lab. T. Th. 2:00 to 5:00. Second floor, Widtsoe Hall.

*Maeser*

14, 15. QUALITATIVE ANALYSIS. A course in the theory and practice of inorganic qualitative analysis. Prerequisites, Chemistry 1, 2, or 3, 4, 5. Winter and Spring quarters. Three credits each quarter.

Lec. T. 2:00. Lab. T. 3:00 to 5:00, Th. F. 2:00 to 5:00.

*Hirst*

21, 22. ORGANIC CHEMISTRY. Fundamental principles of organic chemistry. The chemistry of the carbon compounds. Special attention will be paid to the chemistry of the proteins, carbohydrates, and fats. Prerequisites, Inorganic Chemistry. Fall and Winter quarters. Five credits each quarter.

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

*Hill*

26. ORGANIC CHEMISTRY. A brief course for students not majoring in chemistry and who have insufficient time for a more complete course. Students majoring in foods or nutrition or who desire premedical credit should register for courses 21 and 22.

Spring quarter. Five credits. Prerequisites Inorganic Chemistry. Lec. M. W. F. 9:00; Lab. T. Th. 2:00 to 5:00.  
(Given if registration justifies.) *Hill*

### SENIOR COLLEGE COURSES

102, 103. QUANTITATIVE ANALYSIS. A course in the theory and application of the fundamental principles of gravimetric and volumetric analysis to inorganic, agricultural and food analysis. Prerequisites, Chemistry 5 or 14 and 15. Winter and Spring quarters. Three credits each quarter.

Lec. Th. 2:00. Lab. Th. 3:00 to 5:00, T. F. 2:00 to 5:00. Second floor, Widtsoe Hall. *Hirst*

104, 105, 106. PHYSICAL CHEMISTRY. (See Physics 104, 105, 106.)

107, 108. DAIRY CHEMISTRY. The chemistry of milk and milk products, including tests for adulterants, preservatives, and the routine quantitative methods of analysis of dairy products. Prerequisite, Chemistry 22. Fall and Winter quarters. Three credits each quarter. Second floor, Widtsoe Hall.

Lec. T. 10:00. Lab. W. F. 2:00 to 5:00. *Hill*

109. CHEMISTRY OF TEXTILES. Chemical methods for the identification of textile fibres, including complete quantitative determination of cotton, wool, silk and linen substances in fabrics; Chemistry of dyeing and bleaching. Prerequisites, Chemistry 22. Textiles and Clothing 20, 21. Spring quarter. Three credits.

111, 112. ORGANIC CHEMISTRY. A senior college course in organic chemistry paralleling Chemistry 21, 22, but requiring extra reports and outside reading. Fall and Winter quarters.

(Not given 1926-27.)

113. ADVANCED ORGANIC CHEMISTRY. An advanced study of the principles and reactions of organic chemistry. Prerequisite, Chemistry 22. Spring quarter. Five credits.

Hours to be arranged. *Maeser*

114. THE NITROGEN COMPOUNDS. A course devoted primarily to the proteins, alkaloid and purine derivatives. Prerequisite, Chemistry 22. Winter quarter. Five credits.

Hours to be arranged. *Hill*

115. ORGANIC PREPARATIONS. An advanced laboratory course in practical laboratory methods of synthetic organic chemistry. Prerequisites, Chemistry 22, and 103. Any quarter.

Credit and hours to be arranged.

*Maeser*

120. SPECIAL COURSE IN QUANTITATIVE ANALYSIS. Prerequisite, Chemistry 103. Fall, Winter or Spring quarter.

Time and credit to be arranged with instructor.

A. Water analysis. B. Food analysis. C. Soil analysis. D. Urine analysis. E. Gas analysis. Time to be arranged.

*Hirst*

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

*Staff*

180. RESEARCH. Senior or graduate students majoring in chemistry may elect research in any branch of the subject.

Time and credit to be arranged.

*Staff*

## DAIRY HUSBANDRY

GEORGE B. CAINE, *Professor.*

WILFORD C. COLE, *Instructor.*

Students majoring in dairy manufacturing must complete the following courses before graduation: Dairy Husbandry 2, 101, 103, 104, 105, 110, 111; Chemistry 107, 108, Dairy Chemistry; Bacteriology 104, 105, Dairy Bacteriology; Accounting 51, Dairy Manufacturing Accounts; Business Administration 154, Advertising. In addition, students must have had at least six months of practical work under the direction of the dairy department in an accredited dairy manufacturing establishment before graduation. No credit is given for this work.

## JUNIOR COLLEGE COURSES

1. ELEMENTS OF DAIRYING. The secretion and composition of milk; the chemical and physical properties of milk; testing milk and cream for fat and adulterants; dairy sanitation; separation; pasteurization; making of butter, cheese, and ice cream; food value of milk and milk products. Course completed in one quarter. Students should provide themselves with white aprons. Four credits. Fall or Winter quarter. Room 208 Livestock.

Winter quarter, Lec. M. W. F. 9:00. Lab. T. 2:00 to 5:00.

Fall quarter, Lec. M. W. F. 8:00. Lab. W. 2:00 to 5:00.

*Cole*

2. MARKET MILK. The production of sanitary milk, handling of milk at a city milk plant; inspection methods; marketing of milk. Winter quarter. Three credits.

Lec. T. Th. 9:00. Lab. M. 2:00 to 5:00. Room 208 Livestock.  
*Cole*

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

Hours to be arranged. *Cole*

4. ICE CREAM AND ICES. The manufacture of standard kinds of ice cream and ices. Prerequisite, Dairy Husbandry 1. Spring quarter. Three credits.

Lec. T. Th. 9:00. Lab. T. 2:00 to 5:00. Room 205 Livestock.  
*Cole*

5. DAIRY ENGINEERING. A study of the machines used in the various dairy plants, such as boilers, engines, motors, refrigerating machines, separators, pasteurizers, freezers and churns. Fall quarter. Three credits.

T. Th. S. 11:00. Lab. to be arranged. Room 208 Livestock.  
*Cole and Powell*

6. DAIRY ARITHMETIC. Problems in testing and standardizing, figuring overrun, figuring cost of manufacturing and marketing of dairy products. Fall quarter. One credit.

Friday 11:00. Room 208 Livestock. *Cole*

7. VARIETIES OF CHEESE. The manufacture of standard kinds of soft cheese and some foreign and domestic varieties such as Edam, Brick, Limburger. Fall quarter. Two credits.

Lec. Th. 9:00. Lab. M. 2:00 to 5:00. Room 208 Livestock.  
*Cole*

8. CREAMERY PRACTICE. Any quarter. Time and credit to be arranged. Dairy laboratory.

*Cole*

12. BREEDS OF DAIRY CATTLE. Study of the history, development and type of all breeds of dairy cattle. Requirements for official records. Pedigree and Herd Book Study. Winter quarter. Three credits.

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

## SENIOR COLLEGE COURSES

101. TESTING AND INSPECTION. Commercial testing of dairy products. Methods of inspection. Prerequisite, Dairy Husbandry 1. Spring quarter. Two credits. Room 208 Livestock.

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

*Cole*

102. JUDGING DAIRY PRODUCTS. Judging milk, butter, cheese and ice cream. Winter quarter. One credit.

T. 11:00. Dairy Laboratory.

*Cole*

103. BUTTERMAKING. The manufacture of creamery butter. Designed to meet the needs of the creameryman. Prerequisite or parallel, Dairy Husbandry 1. Winter quarter. Five credits.

Lec. M. W. F. 8:00. Lab. F. 2:00 to 5:00 and S. 8:00 to 11:00. Room 208 Livestock.

*Cole*

104. CHEDDER CHEESE MAKING. Manufacturing and curing of American Cheddar Cheese. Prerequisites or parallel, Dairy Husbandry 1. Winter quarter. Four credits.

Lec. M. W. 11:00. Lab. T. 11:00 to 5:00. Room 208 Livestock.

*Cole*

105. MANAGEMENT OF DAIRY PLANTS. Organization and construction of dairy plants, efficient methods in the manufacture of dairy products; marketing; profit obtained; advertising; accounting. Each student will keep the dairy department books for one month. Prerequisite, Dairy Husbandry 1. Spring quarter. Five credits.

Lec. M. W. F. 9:00. Room 208 Livestock. One three hour lab.; time to be arranged.

*Cole*

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

Lab. time to be arranged.

Daily, except Saturday, 10:00. Room 208 Livestock.

*Caine*

111. DAIRY CATTLE JUDGING. A study of the types of the various breeds of dairy cattle. Visits to important herds. Valuation of dairy cattle. Prerequisites, Animal Husbandry 1 and 2. Dairy Husbandry 12. Spring quarter. One credit. Cattle barns.

Friday 2:00 to 5:00.

*Caine*

115. DAIRY SEMINAR. Discussions and reports of current literature. Time and credit to be arranged.

*Caine and Cole*



## GRADUATE COURSE

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

*Caine and Cole*

## ECONOMICS AND SOCIOLOGY

M. H. HARRIS, *Professor.*

W. L. WANLASS, *Professor.*

F. D. DAINES, *Professor.*

JOS A. GEDDES, *Associate Professor.*

R. M. RUTLEDGE, *Associate Professor.*

WM. H. BELL, *Instructor.*

Students may major in either Economics or Sociology.

Courses starred (\*) are acceptable toward a major in Sociology.

## JUNIOR COLLEGE COURSES

1, 2, 3. GENERAL ECONOMICS. After a brief survey of man's economic development, a careful study is made of those fundamental laws and principles that govern our modern economic life. Some attention is also given to present economic problems preparatory to a more intensive study in the advanced courses in this department. Fall, Winter and Spring quarters. Three credits each quarter.

Sec. 1. M. W. F. 8:00. Room 280 Main.

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

*Wanlass*

Sec. 3. M. W. F. 9:00.

*Daines*

Sec. 4. T. Th. S. 9:00.

*Bell*

Sec. 5. T. Th. S. 10:00.

*Bell*

Sec. 6. M. W. F. 10:00.

*Rutledge*

Sec. 7. M. W. F. 11:00.

*Geddes*

*Rutledge*

10. CURRENT ECONOMIC AND POLITICAL PROBLEMS. The inability to correlate college work with the world of affairs greatly diminishes

the value of a college education. The aim of this course will be to assist students to read intelligently. Extensive reading of current newspapers and magazines will constitute the basis for class discussion. Winter quarter. Three credits.

M. W. F. 9:00.

*Daines*

15. PRINCIPLES OF HUMAN GEOGRAPHY. The purpose of this course is to set forth the great principles of geography in its human aspects—the relation of location, land forms, water bodies, climate, minerals, soil, plant life, etc., to economic, social, political and cultural organization. Spring quarter. Three credits.

(Not given 1926-27.)

30, 31. ECONOMIC DEVELOPMENT OF THE UNITED STATES. This course indicates the dominance of economic forces in history. A critical study will be made of the evolution and progress of American agriculture, industry, commerce, transportation, banking, labor organizations, etc., from the colonial to the present time. Graphs and charts will be made and special reports will be given. Fall and Winter quarters. Three credits each quarter.

T. Th. S. 9:00.

*Rutledge*

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

T. Th. S. 9:00. Room 177 Main.

*Rutledge*

\*80. APPLIED EDUCATIONAL SOCIOLOGY. By utilizing series of practical problems it is aimed to prepare the public school teacher for meeting the problems of school and community. Fall quarter. Three credits.

M. W. F. 9:00. Room 361 Main.

*Geddes*

#### SENIOR COLLEGE COURSES

\*101. APPLIED RURAL SOCIOLOGY. A study of forces and conditions of rural life as a basis for constructive action in developing and maintaining a scientifically efficient and wholesome civilization in the country will be made. It is aimed to train leaders so that the country can be made a desirable place in which to live as well as a place in which to make a living. Winter quarter. Three credits.

T. Th. S. 8:00.

*Geddes*

110. **COMMERCE AND COMMERCIAL POLICIES.** Attention given to the fundamentals of trade and commerce, to the methods of increasing, limiting and directing American trade and an analysis of sound commercial policies. Prerequisites, Economics 1, 2, 3. Spring quarter. Three credits.

T. Th. S. 11:00. Room 177 Main.

*Wanlass*

120, 121. **GENERAL ECONOMICS AND CURRENT ECONOMIC PROBLEMS.** A comprehensive study of the fundamentals of economic theory. Prerequisite, High School Economics or Senior College standing. Spring quarter.

(Not given 1926-27.)

125. **LABOR PROBLEMS.** A study of the labor situation from the social point of view. Special attention given to labor problems and methods of securing industrial peace. Prerequisites, Economics 1, 2, 3 or 120, 121. Fall quarter. Three credits.

T. Th. S. 8:00.

(Not given 1926-27.)

*Geddes*

\*150, 151. **PRINCIPLES OF SOCIOLOGY.** The foundations of sociology will be studied in order that a plan of social progress may be formulated. The problems of social origins, social structure, public opinion, social activities, social organization and social evolution will be carefully considered. Fall and Winter quarters. Three credits each quarter. 150 prerequisite for 151.

T. Th. S. 9:00.

*Geddes*

\*155. **PRINCIPLES OF TAXATION.** After a brief survey of the fundamental economic principles of public finance, a critical examination of our federal, state and local tax systems will be made. The tariff, the general property tax, the income tax and the various business taxes will be studied. Special attention will be given to tax problems in Utah. Prerequisites, Economics 1, 2, 3 or 120, 121. Winter quarter. Three credits.

M. W. F. 9:00.

*Wanlass*

\*160. **APPLIED SOCIOLOGY.** Social problems and social policy. An analysis of the causes, extent, treatment and prevention of poverty, defectiveness, vice and crime will be made. In connection with this course it is planned to visit the state industrial school, penitentiary, insane asylum, etc. Prerequisite, Sociology 150. Spring quarter. Three credits.

(Not given 1926-27.)

161. **APPLIED SOCIOLOGY—MODERN SOCIAL PROBLEMS.** A selection of a series of social problems is made. These problems are studied with the twofold object of ascertaining the present situation and of arriving at common sense solutions which harmonize with the present situation and at the same time conform to sound public policy. Spring quarter. Three credits.

T. Th. S. 9:00.

*Geddes*

165. MONEY AND CREDIT. The nature, development and uses of money and credit. Special attention given to bimetallism, the gold standard, the money market and the relation of money and credit to prices. Prerequisites, Economics 1, 2, 3. Fall quarter. Three credits.

T. Th. S. 11:00. Room 177 Main.

*Wanlass*

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

T. Th. S. 11:00. Room 177 Main.

*Wanlass*

180, 181, 182. CURRENT ECONOMIC PROBLEMS. (Economic Seminar.) A reading and research course designed for junior, senior and graduate students who are majoring in economics and related subjects. Special reports on current economic problems and literature will be made. Required of students graduating in economics. Fall, Winter and Spring quarters. One credit each quarter. Two years credit allowed.

Alternating Wednesday evenings, 5:00 to 7:00. *The Department*

\*184. DEVELOPMENT OF SOCIAL THEORY. An inquiry as to the foundation upon which the present social structure rests and an examination of the processes by which modern social achievements have been accomplished.

(Not given 1926-27.)

\*185. APPLIED SOCIOLOGY. RURAL COMMUNITY ORGANIZATION AND LEADERSHIP. A course dealing with the factors and agencies which assist in integration of rural communities; summarizing the conscious efforts that have been made through resident forces for the sake of social progress. Special attention is placed on leadership, community studies and community programs of work. Spring quarter. Three credits.

T. Th. S. 8:00.

*Geddes*

\*190, 191, 192. SEMINAR IN SOCIOLOGY. Monday evenings, 5:00 to 7:00. Fall, Winter and Spring quarters.

*Geddes*

\*195. HISTORY OF ECONOMIC THOUGHT. A critical study of the origin and development of the economic theories of the leading thinkers in the leading nations of the world. Spring quarter. Three credits.

M. W. F. 9:00.

*Wanlass*

\*199. RESEARCH. The purpose of this course is to direct mature students in original investigations in social problems. Credit and hours to be arranged.

*Geddes*

## GRADUATE COURSE

200. RESEARCH IN ECONOMICS. Special investigations in problems of economics may be carried on by senior and graduate students. Credit will be granted according to work done.

Time to be arranged.

*Wanlass*

## EDUCATION AND PSYCHOLOGY

HENRY PETERSON, *Professor.*

J. E. GREAVES, *Professor.*

CALVIN FLETCHER, *Professor.*

ALICE KEWLEY, *Professor.*

J. R. JENSON, *Associate Professor.*

HENRY OBERHANSLEY, *Assistant Professor.*

C. E. McCLELLAN, *Assistant Professor.*

HATTIE SMITH, *Acting Librarian.*

H. R. REYNOLDS, *Instructor.*

## JUNIOR COLLEGE COURSES

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

Sec. 1. Fall. M. W. F. 8:00. Room 279.

Sec. 2. Fall. T. Th. S. 8:00. Room 177.

Sec. 3. Winter. M. W. F. 8:00.

Sec. 4. Winter. T. Th. S. 8:00.

Sec. 5. Winter. M. W. F. 8:00.

Sec. 6. Spring. T. Th. S. 8:00.

*Peterson and McClellan*

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

Sec. 1. Winter. M. W. F. 8:00.

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

Sec. 3. Spring. M. W. F. 8:00.

Sec. 4. Spring. M. W. F. 8:00.

Sec. 5. Spring. T. Th. S. 8:00.

*Peterson, Oberhansley and McClellan*

4. PRINCIPLES OF EDUCATION. Required for certification. This course includes a study of: (a) the meaning and aims of education in our democracy; (b) general characteristics of the periods of child growth; (c) underlying principles of the program of studies; (d) objectives, material and methods of character education; and (e) educational measurements applied to the elementary school, including familiarity with a number of the most widely used standardized tests. Fall quarter. Three credits.

Sec. 1. T. Th. S. 10:00.

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

*McClellan*

5. UTAH STATE COURSE OF STUDY. Required for certification. This course is designed to familiarize prospective elementary teachers with the content of the elementary curriculum and the objectives and standards to be realized in the grades. Winter quarter. Three credits.

Ses. 1. T. Th. S. 10:00.

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

*McClellan*

6. EDUCATIONAL ORGANIZATION AND ADMINISTRATION. This course will include a brief survey of the evolution of our free schools; a comparative study of the nature, organization and function of the different units of educational control (local, state and national); a study of methods of raising and apportioning school funds; and special attention to the administration of the Utah School law.

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

Sec. 2. T. Th. S. 10:00.

*McClellan*

12. RURAL EDUCATION. A survey and study of proposed objectives for rural schools; tendencies in curriculum revision and the reorganization of rural schools; the preparation of rural teachers; and the functions of the schools as agents in the solution of rural life problems. Three credits. Winter quarter.

T. Th. S. 9:00. Room 177 Main.

*Oberhansley*

14. HEALTH EDUCATION. (See Bacteriology and Physiology 14) Required for certification.

15. PERSONAL HEALTH AND PHYSICAL DEVELOPMENT. (See Bacteriology and Physiology 15) Required for certification.

21. SCOUTMASTERSHIP. A course in the organization, management and leadership of the Boy Scout troop. First aid, signaling, handicraft, camping, athletics and games, stories, trees, birds, rocks, stars, etc. The problems and the aims of the Boy Scout movement. One lecture and one laboratory period. Hikes will be arranged. Winter quarter. Two credits.

Lec. T. S. 11:00.

Committee in charge: Professors Richards, Fletcher, Henry Peterson, William Peterson, Jensen, Oberhansley.



24. APPRENTICE TEACHING IN SCOUTMASTERSHIP. For prospective scoutmasters and other social leaders. One lecture each week and active participation as assistant scoutmasters in registered troupes. Prerequisite, Education 21. Spring quarter. One or two credits.

Time to be arranged.

Oberhansley and Scout Commission of the Logan Council of Boy Scouts.

30. PUBLIC SCHOOL MUSIC FOR GRADE TEACHERS. (See Music 30)

31. HISTORICAL DEVELOPMENT OF THE PRINCIPLES OF EDUCATION. The evolution of education in ancient Greece and Rome. A study of the ideals and processes of the Greeks and Romans. Fall quarter. Three credits.

Sec. 1. M. W. F. 10:00. Room 177 Main.  
(Not given 1926-27.)

32. HISTORICAL DEVELOPMENT OF THE PRINCIPLES OF EDUCATION. The rise and growth of Christianity with its schools and systems of education in Europe down to modern times. Winter quarter. Three credits.

Sec. 1. M. W. F. 10:00. Room 177 Main.  
(Not given 1926-27.)

*McClellan*

33. THE HISTORICAL DEVELOPMENT OF AMERICAN SCHOOL SYSTEMS. Required for certification. Their administration and supervision. A study of the origin and growth of American educational ideals, practices and achievements, with special emphasis on the teaching, administrative and supervisory problems. Spring quarter. Three credits.

Sec. 1. M. W. F. 10:00. Room 177 Main.  
(Not given 1926-27.)

*McClellan*

41. METHODS OF TEACHING ELEMENTARY SUBJECTS. The spontaneous purposeful activity of the child as the basic principles determining methods. Subject matter reviewed in the light of the foregoing thesis. Significance to teachers of the fact of individual differences. Consideration of school room equipment, organization and play activity. Fall quarter. Three credits.

Sec. 1. T. Th. S. 8:00. Room 302 Main.  
Sec. 2. M. W. F. 8:00.

*McClellan*

42. PRACTICE TEACHING. This course is for sophomores who have had educational psychology, principles of education and methods of teaching. The apprentice plan is followed which requires an initial period of observation with minor responsibility with gradual increase of work and responsibility as trainees' ability is demonstrated.

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

*McClellan*

51. DRAWING FOR PUBLIC SCHOOLS. Methods and Technic of drawing as taught in the graded schools, also blackboard drawing. Fall quarter. Three credits.

T. Th. S. 11:00.

*Reynolds*

52. NORMAL DESIGN AND COLOR AS USED IN GRADED SCHOOLS. Methods of doing and teaching design and color to children. Picture study will also comprise a part of the course. T. Th. S. 11:00.

*Reynolds*

53. HANDIWORK FOR GRADED SCHOOLS. Stick printing, stenciling, weaving, basketry, enamelling, jesso, pottery, and other crafts suited to graded schools will be taken up. Spring quarter. Three credits.

T. Th. S. 11:00.

*Reynolds*

61. LIBRARY METHODS. General Reference. Classification and arrangement of books, the card catalog, reference books. Text: "List of Reference Books in the Utah Agricultural College Library." Winter and Spring quarters. One credit each quarter.

T. 1:00. Library, Main.

*Smith*

### SENIOR COLLEGE COURSES

101. PRINCIPLES OF PSYCHOLOGY. This is a general course and is open to all senior college students whether they intend to enter the teaching profession or go into other pursuits. It deals with the science of human behavior. Fall quarter. Three credits.

Sec. 1. M. W. F. 11:00. Room 279 Main.

Sec. 2. T. Th. S. 11:00. Room 279 Main.

*Peterson*

102. ADVANCED EDUCATIONAL PSYCHOLOGY. Required for certification to teach in high schools. The course is designed for teachers and leaders of social activities. It applies the science of psychology to the processes of teaching and leadership. Prerequisite, Education 101 or equivalent. Winter quarter. Three credits.

Sec. 1. M. W. F. 11:00. Room 279 Main.

Sec. 2. T. Th. S. 11:00. Room 279 Main.

*Peterson*

103. ADVANCED EDUCATIONAL PSYCHOLOGY. Required for certification to teach in high schools. The application of the science of psychology to the teaching or leadership of adolescents. Prerequisites, Education 101 and 102 or equivalent. Spring quarter. Three credits.

Sec. 1. M. W. F. 11:00. Room 279 Main.

Sec. 2. T. Th. S. 11:00. Room 279 Main.

*Peterson*

111. SCIENCE OF EDUCATION. Required for certification to teach in high schools. Should be taken in the senior year. A study of the scientific data of education as related to the processes and methods used in high school teaching. Consideration will be given to educational values and objectives and to tests and measurements by which standards are determined. Prerequisite, Education 102 and 103. Fall quarter. Four credits.

Sec. 1. T. Th. S. 10:00. Room 279 Main (Extra hour to be arranged.)

Sec. 2. M. W. F. 10:00. Room 279 Main (Extra hour to be arranged.)

*Peterson*

112. RURAL LIFE PROBLEMS. The study of the conditions of rural life; physical influences; psychology of farm life; structure of rural society; rural social institutions; rural leadership; surveys; organizations and social agencies. The work of the rural high schools in the solution of rural life problems will be emphasized. Three credits. Spring quarter.

M. W. F. 9:00.

*Oberhansley*

113. METHODS OF EXTENSION WORK. Intensive study of the problems and functions of county agricultural agents, county home demonstration agents, agricultural specialists, home economics specialists, club agents and state extension leaders. The following topics will be covered: A brief history of extension work; present organization and status of extension work; choosing the local program of work; developing projects; training local leaders; follow-up methods; methods of conducting meetings, demonstrations, exhibits, field trips, and contests; office organization, equipment, etc.; report writing, letter writing and preparation of illustrative and other publicity material; the outlook for extension workers. Field trips will be made into those parts of the state where the most successful extension work is being done. Primarily for graduate students. Seniors may be admitted. Spring quarter. Three credits.

T. Th. S. 8:00.

*Oberhansley and Extension Staff*

115. PRACTICE TEACHING IN HIGH SCHOOLS. Required for certification. For those preparing for Junior High School or Senior High School certification by the State. The apprenticeship plan is followed which requires a period of observation and the performance of minor duties at first with gradual increase as the trainee proves himself equal to the work. Prerequisite, Education 102, 103 and 111. Four to eight credits. Fall, Winter and Spring quarters. Time of training to be arranged. All trainees meet Friday 5:00. Room 279.

*Peterson*

120. METHODS OF TEACHING HOME ECONOMICS. Required for certification. A course designed for teachers of home economics. Determination of objectives in home economics teaching. General discussion of methods in teaching home economics. Fall quarter. Three credits.

M. W. F. 9:00. Room 26 H. E.

*Kewley*

121. THE ORGANIZATION AND ADMINISTRATION OF SECONDARY EDUCATION. Required for certification. (a) The State Laws and the regulations of the State Board of Education pertaining to public high schools; (b) high school courses of study, including the Utah State course; (c) organization, duties and activities of the teaching staff and the student body; (d) special study of the objectives of social education, including character education as applied to secondary schools and the methods of realizing these objectives. Winter quarter. Four credits. Extra hour to be arranged.

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

*Oberhansley*

Sec. 2. M. W. F. 8:00.

*Kewley*

122. PRACTICE TEACHING IN HOME ECONOMICS. Required for certification. This course provides an opportunity for a first hand study of school plants, buildings, equipment, school procedure and good teaching. Supervised observation of all phases of home economics teaching in various schools of the State. Each apprentice teacher is required to teach a minimum of 30 successful lessons. Round table discussions and individual weekly conferences to parallel practice in teaching. Prerequisites, Education 120, 121. Fall, Winter or Spring quarters. Five to eight credits.

Time to be arranged.

*Kewley*

124. INSTRUCTOR TRAINING FOR MECHANIC ARTS TEACHERS. The analysis and classification of trade knowledge. Establishing an effective instructional order. Putting it over to the student. Methods of instruction. Lesson Planning. Preparing job sheets, and listing reference material. Instructional management. Five credits. Spring quarter.

Daily 11:00. M. A. Building.

*Newey*

126. METHODS OF TEACHING AGRICULTURE. For prospective Smith-Hughes and agricultural teachers. The home project and agricultural job analysis will be the basis of the course. Special topics considered are: The Smith-Hughes law and how it operates in Utah; selection and arrangement of subject matter; lesson planning; management of students in class room, laboratory and field; visual and extension methods of teaching. Prerequisites, Education 111 or its equivalent. Winter quarter. Three credits.

T. Th. S. 9:00. Room 177 Main.

*Oberhansley*

127. PRACTICE TEACHING IN AGRICULTURE. Required for certification. Opportunity will be provided for a limited number of men to do some personally directed teaching in Smith-Hughes work in the Logan High School, North Cache High School and the South Cache High School. Prerequisite, first three years of Smith-Hughes course. Fall, Winter and Spring quarters. Eight credits.

Time to be arranged.

*Oberhansley*

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

Time to be arranged.

*Oberhansley*

151, 152, 153. METHODS OF TEACHING PHYSICAL EDUCATION. (See Physical Education 151, 152, 153.)

NOTE: The credit for this course will also count toward a major in Physical Education.

151. EDUCATIONAL ART FOR HIGH SCHOOLS. For those who want to teach art under the Smith-Hughes plan or in High School. The teaching of drawing, the crafts, costume design, interior decoration, commercial design, etc. Prerequisites, a knowledge of drawing and design. Winter quarter. Three credits.

T. Th. S. 9:00. Art room, Main.

### GRADUATE COURSES

201. METHODS AND PRINCIPLES OF RESEARCH AS APPLIED TO AGRICULTURE. Work done in this course may be used to apply toward the thesis for the master's degree. Any quarter.

Hours and credits to be arranged.

*The Experiment Station Staff*

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

Hours and credits to be arranged.

*The Experiment Station Staff*

203. METHODS OF EXTENSION WORK. Intensive study of the problems and functions of county agricultural agents, county home demonstration agents, agricultural specialists, home economics spe-

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

Hours to be arranged.

*Extension Service Staff*

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

*Extension Service Staff*

NOTE—Students who are preparing for positions as extension workers should include Education 101, 102, 103, 111, 113, and Extension Methods 201, 211. Education 203 is designed specially to fit teachers in Agriculture and Home Economics for the more lucrative positions in the extension service and to enable those already in extension work to reach the higher positions in the field.

261, 262, 263. SEMINAR IN EDUCATION. Required for certification. The Fall quarter will be devoted mostly to problems in the Science of Education; the Winter quarter to problems in school organization and administration. Individuals will choose or be assigned problems related to their work or prospective careers which they will study thoroughly and report to the group or class. Another aspect of the work of the seminar will be the keeping abreast of the latest researches and reviews of the best current literature in education. Open to seniors and graduates who have laid the necessary foundation in psychology and education. Fall, Winter and Spring quarters. One and one-half credits, each quarter.

Th. 3:20 to 5:00. Room 177 Main.

*McClellan*



ENGLISH AND SPEECH

- N. A. PEDERSEN, *Professor.*  
 F. R. ARNOLD, *Professor of Modern Languages and Latin.*  
 CHARLOTTE KYLE, *Assistant Professor.*  
 WALLACE J. VICKERS, *Assistant Professor.*  
 A. N. SORENSON, *Assistant Professor.*  
 CHESTER J. MYERS, *Instructor.*  
 FRED HAMMERLY, *Instructor.*

ENGLISH

JUNIOR COLLEGE COURSES

A. A review of elementary grammar and composition for students unprepared to pursue the standard courses in English. Fall quarter. No credit.

T. Th. S. 9:00.

*Kyle*

5. COLLEGE GRAMMAR. Winter and Spring quarters. The course repeats each quarter. Three credits.

T. Th. S. 9:00.

*Vickers*

9. SCIENTIFIC VOCABULARY.  
 (Not given 1926-27.)

*Arnold*

10. FRESHMAN COMPOSITION. The Fall quarter is devoted to the study of grammar. The next two quarters provide drill in the fundamentals of good writing and in rhetorical details, together with practice in the forms of written discourse. Three credits each quarter.

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

*Kyle*

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

*Vickers*

Sec. 3. M. W. F. 9:00.

*Sorenson*

Sec. 4. T. Th. S. 10:00.

*Hammerly*

Sec. 5. T. Th. S. 11:00.

*Sorenson*

Sec. 6. T. Th. S. 8:00.

*Vickers*

Sec. 7. M. W. F. 10:00.

*Hammerly*

Sec. 8. Winter and Spring quarters only. T. Th. S. 9:00.

*Kyle*

50, 51, 52. THE HISTORY OF ENGLISH LITERATURE. The literature of Great Britain from the Anglo-Saxon period to the present time, with emphasis upon the literature since the time of Shakespeare. Required of English majors. Fall, Winter and Spring quarters. Three credits each quarter.

Sec. 1. M. W. F. 8:00. Room 358.

*Pedersen*

Sec. 2. M. W. F. 9:00.

*Hammerly*

Sec. 3. T. Th. S. 9:00.

*Sorenson*

53, 54, 55. NINETEENTH CENTURY ENGLISH NOVEL. Class discussion and reports. Fall, Winter and Spring quarters. Three credits each quarter.

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

*Kyle*

70. THE SHORT STORY.

(Not given 1926-27.)

*Kyle*

80, 81, 82. AMERICAN LITERATURE. The literature of America from Colonial Times to the present. Fall, Winter and Spring quarters. Three credits each quarter.

T. Th. S. 10:00. Room 357 Main.

*Kyle*

84. EMERSON. His prose and poetry. Fall quarter. Three credits.

M. W. F. 10:00.

*Vickers*

86. BACON. A study of representative selections. Spring quarter. Three credits.  
M. W. F. 8:00.

*Sorenson*

87. CARLYLE. Reading and discussion of selected masterpieces. Spring quarter. Two credits.  
T. Th. 8:00.

*Pedersen*

### SENIOR COLLEGE COURSES

English 10 is a prerequisite for all courses in English that follow.

108, 109, 110. ADVANCED WRITING. Review of rhetorical details. Practice in various forms of discourse. Considerable freedom of choice during Spring quarter as to type of writing. Fall, Winter and Spring quarters. Two credits each quarter.

T. Th. 10:00.

*Pedersen*

111, 112. THE EIGHTEENTH CENTURY NOVEL. A study of the chief English novelists of the century, with attention to continental influences. Fall and Winter quarters. Three credits.

M. W. F. 10:00.

*Sorenson*

115, 116, 117. THE ESSAY. The English Essay of the nineteenth century from Lamb to Stevenson. Recent English and American Essays by Arnold Bennett, H. G. Wells, G. K. Chesterton, Agnes Repplier, and Samuel Crothers. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 9:00.

*Kyle*

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

125, 126, 127. JOURNALISM.  
(Not given 1926-27.)

*Arnold*

130, 131. THE BIBLE AS ENGLISH LITERATURE. Winter and Spring quarters. Three credits each quarter.

M. W. F. 10:00.

*Vickers*

140, 141, 142. SHAKESPEARE. Detailed study in class of six plays: Macbeth, Henry the Fourth, King Lear, Hamlet, Othello, Twelfth Night. Collateral reading: various other Shakespearean plays as well as a biography. Fall, Winter and Spring quarters. Three credits each quarter.

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

*Pedersen*

143. MILTON. Selected prose and poetry. Fall quarter. Three credits.

T. Th. S. 9:00.

*Vickers*

145. CONTEMPORARY POETRY. English and American. Prerequisites, English 80, 81, 82 or English 50, 51, 52.

(Not given 1926-27.)

150, 151, 152. THE ENGLISH POETS OF THE NINETEENTH CENTURY. (Not given 1926-27.)

153, 154. CHAUCER. Extensive reading course. Attention paid to pronunciation. Fall and Winter quarters. Three credits each quarter.

M. W. F. 11:00.

*Pedersen*

163, 164, 165. MODERN DRAMA. A study of Ibsen, Sudermann, Vincente, Pinero, Shaw, Fitch, O'Neill, et. al. Two credits.

T. Th. 10:00.

*Pedersen*

## SPEECH

### JUNIOR COLLEGE COURSES

1. VOCAL INTERPRETATION. The vocal interpretation of the printed page. The aim of the course is to develop the ability to appreciate, intellectually and emotionally any good literature and to interpret it so that others will appreciate it. Fall quarter. Three credits.

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

*Myers*

2, 3. PRINCIPLES OF READING. An analysis and study of the printed page. Beneficial to those who wish to read effectively either orally or silently. Winter and Spring quarters. Three credits each quarter.

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

*Myers*

6, 7. **EXTEMPORANEOUS SPEAKING.** Practice in extemporaneous speaking with a definite study of those principles which make speech effective. Class limited to twenty five. Fall and Winter quarters. Three credits each quarter.

Sec. 1. M. W. F. 9:00. Room 359 Main.

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

*Myers*

8. **TECHNIQUE.** Special attention is to be given to voice science, gesture, and phonetics. A course which aims at ease in cultural speech; for those who are interested in coming before the public in any form of speech work. Spring quarter.

Hours, time and place same as for courses 6, 7.

### SENIOR COLLEGE COURSES

English 10 is a prerequisite for all courses in English that follow.

101. **PSYCHOLOGY OF SPEECH.** Speech making with prepared outlines. Special stress on speech as a psychological problem. Prerequisites, English 6, 7, 8. Fall quarter. Three credits.

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

*Myers*

102. **PUBLIC SPEAKING.** A study of the principles of effective speaking in the preparation and delivery of speeches adapted to various audiences. Prerequisite, Speech 101. Winter quarter. Three credits.

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

*Myers*

103. **PEDAGOGY OF SPEECH.** Lecture course with reference reading in the library. Consideration is to be given the various problems confronting the teacher of speech. The matter of contests in speech, reading and debate will also receive attention. Class programs and lesson plans in written form are expected of each student. Spring quarter. Three credits.

Consult the instructor before registering for this course.

M. W. F. 8:00.

*Myers*

105. **DRAMATIC PRODUCTION.** Study and production of plays. Attention given to work in the art of stage make-up and technique of acting. Prerequisites, English and Speech 1, 2, 3, 8. Fall quarter. Three credits.

T. Th. S. 9:00-11:00.

*Myers*

106. DRAMATIC PRODUCTION. Stagecraft for directors. Attention given to stage technique, prompt books, miniature stages, costumes and lights. Knowledge applied to campus productions. Prerequisites, English 105. Winter quarter. Three credits.

T. Th. S. 9:00-11:00.

*Myers*

107. DRAMATIC INTERPRETATION OF SHAKESPEARE. Great scenes will be chosen from tragedy and comedy for oral interpretation. Prerequisites, English and Speech 1, 2, 3, 8, 140, 141, 142. Spring quarter. Three credits.

T. Th. S. 9:00.

*Myers*

FARM AND AUTO MECHANICS. (See page 175.)

AUTO MECHANICS. (See page 175.)

FARM MECHANICS. (See page 177.)

IGNITION, STARTING AND LIGHTING. (See page 177.)

OXY-ACETYLENE, ELECTRIC ARC AND RESISTANCE WELDING. (See page 179.)

TRACTOR REPAIR AND OPERATION. (See page 180.)

FOODS AND DIETETICS. (See page 186.)

## GEOLOGY

WILLIAM PETERSON, *Professor.*

REED BAILEY, *Instructor.*

### JUNIOR COLLEGE COURSE

10. ENGINEERING GEOLOGY. Dynamical and structural geology as it applies to construction work. Special attention is given to materials affecting road construction, dams and excavations. Winter quarter. Five credits.

Daily, except Sat. 11:00. Room 283 Main.

*Bailey*

### SENIOR COLLEGE COURSES

102, 103 104. GENERAL GEOLOGY. Physical and Historical Geology. A study will be made of the materials making up the earth's crust, their arrangement and origin. Also a study of the dynamical



agents such as wind, running water, moving ice, volcanic activities, etc., which operate upon the earth and modify its outer position. A study of the sequence of events which have happened to the earth in the past as revealed by the rocks and fossils. A review of the building of the continent with its mountain ranges and the different successions of organic life which have inhabited the earth. A few field trips will be made. Prerequisites, Chemistry 1 and 2, Zoology 3 and 4. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 9:00. Room 283 Main.

*Peterson and Bailey*

105, 106. GENERAL GEOLOGY. Physical and Historical. The same study will be made as in 102, 103, 104. Winter and Spring quarters. Five credits each quarter.

Daily, except Sat. 10:00. Room 283 Main.

*Bailey*

107, 108, 109. ECONOMIC GEOLOGY. The first part of the course will deal with the non-metals with special emphasis on mineral fertilizers; the second part, with metals, their origin and economic uses. Any quarter may be taken without the others. Prerequisites, Geology 102, 103, 104 or 105, 106. Fall, Winter and Spring quarters. Three credits each quarter.

T. Th. S. 1:00. Room 283 Main.

*Bailey*

110. COMMON MINERALS AND ROCKS. The origin and formation of the different kinds of rocks, both sedimentary and igneous and of about seventy-five minerals with methods for their determination. Prerequisites, Geology 102, 103, 104 or 105, 106 and Chemistry 1. Lectures, reading and laboratory work. Fall, Winter and Spring quarters. Credit to be arranged. Credit should total five hours.

*Bailey*

111. GEOLOGY OF GROUND WATER. A study of structure to determine the cause of springs, artesian wells, etc. Structural characteristics that will yield water, either through tunneling or boring. Prerequisites, Geology 102, 103, 104 or 105, 106 and Physics 1, 2, 3. Spring quarter. Five credits.

Daily except Sat. 11:00. Room 283 Main.

*Peterson and Bailey*

112. ADVANCED PHYSIOGRAPHY. Prerequisites, Geology 102, 103, 104 or 105, 106. Fall quarter. Three credits.

T. Th. S. 8:00. Room 283 Main.

*Bailey*

113. PALEONTOLOGY. Life succession as found in fossil records. Special emphasis will be placed on the origin and the development of the mammals of today. Spring quarter. Five credits.  
Daily except Sat. 8:00. Room 283 Main.

*Bailey*

114. Field methods necessary in mapping the detailed geology of an assigned area.  
Time and credit to be arranged.

*Peterson*

115. LOCAL GEOLOGY. The relief of Utah and bordering states. Relation of the country rock and physical features to productive land areas. One piece of relief modeling may be required from each student. Prerequisites, Geology 102, 103, 104 or 105, 106. Fall quarter. Three hours. Two or three credits.

Laboratory to be arranged.  
(Not given 1926-27.)

*Peterson and Bailey*

116. GEOLOGY. Relief modeling, methods by which any topographic map may be converted into a true relief model including either the geology or detailed geography as the student may select. Either Fall or Winter quarter. Two or three credits.

Hours to be arranged.  
(Not given 1926-27.)

*Peterson*

117. AGRICULTURAL GEOLOGY. Local geology in the valleys of Utah. A detailed study will be made of the rock formations surrounding each valley and the character of soils from the disintegration of these rocks. This course will be prefaced by a study of structural and relief features of Utah as well as a general survey of the drainage systems as they have influenced the disposition of disintegrated rock in the forming of soil. Fall quarter. Three credits.

T. Th. S. 11:00. Room 283 Main.

*Peterson and Bailey*

## HISTORY

JOEL E. RICKS, *Professor.*

### JUNIOR COLLEGE COURSES

1. EUROPEAN HISTORY. Survey from the fall of Rome to 1500. Fall quarter. Three credits.

Sec. 1. T. Th. S. 9:00. Room 356 Main.

*Ricks*

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

*Ricks*

2. EUROPEAN HISTORY. Survey of the Later Medieval and Early Modern Period, 1500-1789. Winter quarter. Three credits.

Sec. 1. T. Th. S. 9:00. Room 356 Main.

*Ricks*

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

*Ricks*

3. EUROPEAN HISTORY. Survey of the Modern Period, 1789 to present. Spring quarter. Three credits. Repeats Summer quarter.

Sec. 1. T. Th. S. 9:00. Room 356 Main.

*Ricks*

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

*Ricks*

13. UNITED STATES HISTORY. Survey of United States History from earliest times to 1783. Three credits. Fall quarter.

M. W. F. 8:00. Room 356 Main.

*Ricks*

14. UNITED STATES HISTORY. From the Revolution through the Civil War. Winter quarter. Three credits.

M. W. F. 8:00. Room 356 Main.

*Ricks*

15. UNITED STATES HISTORY. From the close of the Civil War to the present time. Spring quarter. Three credits.

M. W. F. 8:00. Room 356 Main.

*Ricks*

#### SENIOR COLLEGE COURSES

120. EUROPEAN HISTORY. The Renaissance and the Reformation. Fall quarter. Three credits.

M. W. F. 10:00. Room 356 Main.

*Ricks*

124. EUROPEAN HISTORY. The French Revolution and Napoleon. Winter quarter. Three credits.

M. W. F. 10:00. Room 356 Main.

*Ricks*

126. EUROPEAN HISTORY. Problems of Europe 1815-1870. Spring quarter. Three credits.

M. W. F. 10:00. Room 356 Main.

*Ricks*

131. UNITED STATES HISTORY, THE WEST, 1763-1830. The development of the West from the Alleghanies to the Mississippi. Fall quarter. Three credits.

T. Th. S. 10:00. Room 356 Main.

*Ricks*

132. UNITED STATES HISTORY. The Trans-Mississippi West. Exploration Settlement, and Development of the West, 1830-1860. Winter quarter. Three credits.

T. Th. S. 10:00. Room 356 Main.

*Ricks*

133. UNITED STATES HISTORY. History of Utah. Explorations, migrations, settlement, and development of Utah. Spring quarter. Three credits.

T. Th. S. 10:00. Room 356 Main.

*Ricks*

## HORTICULTURE

T. H. ABELL, *Assistant Professor.*

EMIL HANSEN, *Instructor.*

NOTE: Students who major in Horticulture are required to take courses 2, 5, 102, 103, 104, 108, 109 and Agronomy 109. The requirement for a major may also be satisfied by Agricultural Economics 102, and Irrigation 1. Botany 21, 22, 23 should precede or accompany all courses in Horticulture.

## JUNIOR COLLEGE COURSES

2. PLANT PROPAGATION. Study of principles and practices of propagating plants by spores, seeds, grafting, cutting, layering and separation. Required for students majoring in horticulture. Prerequisites, Botany 21, 22, 23. Winter quarter. Three credits.

Lec. M. W. 9:00. Lab. T. 2:00 to 5:00. Room 179 Main.

*Abell*

4. LANDSCAPE GARDENING AND FLORICULTURE. An introduction to the theory and practice of beautifying the home surroundings in the city and on the farm. Laboratory instruction in growing flow-

7, 8, 9. GREENHOUSE PRACTICE. A study of the culture of plants under glass. Reading, reports and practice in greenhouse with vegetables and flowering plants. Includes such phases as home floriculture, hanging baskets, window and porch boxes, seeding, transplanting, propagation, hot beds and cold frames, vegetable forcing, mushroom culture. One to three credits per quarter. Fall, Winter and Spring quarters.

Time to be arranged.

*Abell*

10. SMALL FRUITS. Varieties, culture, training and marketing of brambles, groselles, grapes and strawberries. Spring quarter. Three credits.

Lec. T. Th. 10:00. Lab. T. 2:00 to 5:00. Room 179 Main.

*Abell*

### SENIOR COLLEGE COURSES

101. GENERAL HORTICULTURE. Study of various phases of horticulture from viewpoint of correlation with general and specialized farming. Intended primarily for Senior College Agricultural Students who are not specializing in Horticulture. Prerequisite, Botany 1 or 21. Spring quarter. Five credits.

Lec. M. W. F. 11:00. Lab. M. Th. 2:00 to 5:00. Room 179 Main.

ers, designing of home grounds, plant materials. Mechanical Drawing 6 should precede this course. Fall quarter. Three or four credits.

(Not given 1926-27.) Alternates with Horticulture 10.

5. COMMERCIAL GARDENING. Vegetable production for the market and canning factory. Winter quarter. Three credits.

(Not given 1926-27.) Alternates with Horticulture 2.

102. SYSTEMATIC POMOLOGY. Botany and origin of fruit species, variety study and identification, scoring and judging of fruit exhibits. This course required for a major in horticulture. Prerequisites, Botany 21, 22, 23. Fall quarter. Three credits.

Lec. W. 9:00. Lab. W. F. 2:00 to 5:00. Room 179 Main.

*Abell*

103. FRUIT PRODUCTION. Fundamentals of production of orchard and small fruits. This is an advanced course required of all students majoring in horticulture. Prerequisites, Botany 21, 22, 23. Chemistry 1, 2, and 26. Irrigation 1, and Horticulture 2. Winter quarter. Four credits.

M. T. W. F. 10:00. Room 179 Main.

*Abell*

104. ORCHARD PRACTICE. Field trips to study orchard problems, and exercises in pruning and pest control. Prerequisites, Horticulture 103 and Entomology 4. Required for a major in Horticulture. Spring quarter. Three credits.

Lec. T. 11:00. Lab. F. 1:00 to 6:00.

*Abell*

105. COMMERCIAL HORTICULTURE. Fruit and vegetable harvesting, grading, packing, handling and storing. Fall quarter. Three credits.

(Not given 1926-27.) Alternates with Horticulture 102.

107. HISTORY OF CULTIVATED PLANTS. Historical consideration of the gradual adaptation of plants to the uses of man, and the factors in their improvement. Prerequisites, Botany 21, 22, 23. Agronomy 109. Winter quarter. Two credits.

(Not given 1926-27.) Alternates with Horticulture 103.

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

Time to be arranged.

*Abell*

HOUSEHOLD ADMINISTRATION. (See page 188.)

IRRIGATION AND DRAINAGE. (See page 173.)

## MATHEMATICS

A. H. SAXER, *Professor*.

EDMUND FELDMAN, *Associate Professor*.

N. E. EDLEFSEN, *Assistant Professor*.

GEORGE DEWEY CLYDE, *Assistant Professor*.

ROY EGBERT, *Assistant Professor*.

## JUNIOR COLLEGE COURSES

20, 21, 22. ELEMENTARY ANALYSIS. A one year course arranged for students who can take but one year of mathematics, and who have presented but one unit of algebra for entrance. Graphical methods for presenting facts. Relation of the graph to algebra, arithmetic, and geometry. Detailed analytical discussion of the linear equation. Graphical and algebraical solution of triangles. Trigonometry and use of trigonometric tables. Use of logarithms, slide



rule, etc. Selected topics from Freshman algebra showing application to the various departments of the College. Prerequisite, one year of high school algebra. Fall, Winter and Spring quarters. Three credits each quarter.

Sec. 1. M. W. F. 11:00.

*Egbert*

Sec. 2. M. W. F. 8:00.

*Edlefsen*

Sec. 3. T. Th. S. 9:00.

*Egbert*

25. ELEMENTARY STATISTICAL METHODS. An introduction to the mathematical theory of statistics together with applications in the fields of Education, Business and Biology. Prerequisite, Math. 21 or 30 or their equivalent. Spring quarter. Five credits.

Daily at 8:00.

*Saxer*

30. ALGEBRA. This course is designed to meet the needs of students in engineering who present but one unit of algebra and one unit of geometry for entrance. This course prepares for Mathematics 45 which follows and should not be taken by those who present  $1\frac{1}{2}$  units of algebra. Fall quarter. Five credits.

Sec. 2. Daily except Saturday 10:00.

*Clyde*

Sec. 3. Daily except Saturday 8:00.

*Feldman*

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

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

*Saxer*

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

*Clyde*

Sec. 3. Winter quarter. Daily except Saturday 8:00.

*Feldman*

46. TRIGONOMETRY. Prerequisite, Mathematics 45. Winter or Spring quarter. Five credits.

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

*Saxer*

Sec. 2. Spring quarter. Daily except Saturday 10:00.  
*Clyde*

Sec. 3. Spring quarter. Daily except Saturday 8:00.  
*Feldman*

47. ELEMENTARY CALCULUS. An introduction to the differential and integral calculus. Prerequisite, Mathematics 46. Fall or Spring quarter. Five credits.

Sec. 1. Spring quarter. Daily except Saturday 8:00.  
*Saxer*

Sec. 2. Fall quarter. Daily except Saturday 10:00.  
*Saxer*

50. GENERAL ASTRONOMY. Prerequisites, General Physics and Mathematics 22 or 46. Winter and Spring quarters. Three credits each quarter.

M. W. F. 9:00.  
(Not given 1926-27.)

60. MATHEMATICAL THEORY OF INVESTMENT. Prerequisite, Mathematics 22 or 45. Three credits. Winter quarter.

M. W. F. 9:00.  
(Not given 1926-27.)

61. PROBABILITY AND LIFE INSURANCE. A continuation of Mathematics 60. Prerequisite, Mathematics 60. Spring quarter. Three credits.

M. W. F. 9:00.  
(Not given 1926-27.)

### SENIOR COLLEGE COURSES

112, 113, 114. DIFFERENTIAL AND INTEGRAL CALCULUS. A continuation of course 47. Prerequisite, Mathematics 47. Fall, Winter and Spring quarters. Three credits each quarter.

T. Th. S. 9:00.  
(Not given 1926-27. See Math. 118, 119.)

*Saxer*

118, 119. DIFFERENTIAL AND INTEGRAL CALCULUS. A continuation of course 47. Winter and Spring quarters. Five credits each quarter.

Daily except Saturday 10:00.

*Saxer*

120. ADVANCED ANALYTICAL GEOMETRY. With applications. Prerequisite, Mathematics 114 or 119. Fall quarter. Three credits.  
M. W. F. 11:00.

*Saxer*

121. ADVANCED CALCULUS. Together with applications to engineering and the sciences. Prerequisite, Mathematics 120. Winter quarter. Three credits.  
M. W. F. 11:00.

*Saxer*

122. DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS. Prerequisite, Mathematics 121. Spring quarter. Three credits.  
M. W. F. 11:00.

*Saxer*

MECHANIC ARTS. (See page 180.)

FORGING AND GENERAL BLACKSMITHING. (See page 180)

MACHINE WORK. (See page 181.)

MECHANICAL DRAWING. (See page 182.)

WOODWORK AND HOUSEBUILDING. (See page 184.)

## MILITARY SCIENCE AND TACTICS

ADRIN B. SMITH,  
Captain, Coast Artillery Corps,  
Detached Officers' List,  
*Professor*

JOHN L. HANLEY  
First Lieutenant, Coast Artillery Corps,  
Detached Officers' List,  
*Assistant Professor*

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

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

Under the Morrill Land Grant of 1862 Military training is required at this institution and under the Act of Congress of June 3,

1916, there is at present at the College one unit of the Reserve Officers' Training Corps.

### Reserve Officers' Training Corps

Through the National Defense Act of June 3, 1916, and the Army Reorganization Act of June 4, 1920, the President of the United States is authorized to establish and maintain in civil educational institutions units of the Reserve Officers' Training Corps, the object of which is set forth in special regulations of the War Department as follows:

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

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

### Military Training Compulsory

The Board of Trustees has agreed to establish and maintain at this institution a two-year compulsory course of military science and tactics as a minimum for its physically fit male students, which

course, when entered upon by any student, shall, as regards such student, be a prerequisite for graduation unless he is relieved of this obligation by regulations to be prescribed by the Secretary of War.

All male students who are citizens of the United States and who are physically fit, except those who are exempted therefrom by the Exemption Board, are required to enroll for military training during their Freshman and Sophomore Years in the Reserve Officers' Training Corps for the BASIC COURSE in Military Science and Tactics which course shall be pursued without delay and without interruption during the period the student attends college.

In addition there is offered, but not required, a two years course in ADVANCED MILITARY Science and Tactics.

### Two Courses Offered

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

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

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

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

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

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

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

### Instruction and Organization

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

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

### Cadet Officers and Non-Commissioned Officers

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

### Object of Training

The main objects of Military Instruction are:

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



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

### Uniform

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

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

Students pursuing the Advanced Course may be paid commutation of uniforms in lieu of issue uniforms. These uniforms, especially made, are the property of the institution but become the property of the student upon graduation from the Advanced Course.

### The R. O. T. C. Military Band

The R. O. T. C. Military band is an important unit of the Military Department and takes part in most of the leading student activities. Besides giving several concerts during the year, the band furnishes music for regimental formations and ceremonies and other occasions as required by the President of the College.

Rehearsals are held regularly throughout the college year. The organization is made up mostly of Sophomores and Freshmen, who receive in addition to credits from the military department, one credit per quarter from the Department of Music. The band is directed by the instructors in the Music Department and is governed by the rules of the Military Department.

### The Basic Course

**OBLIGATIONS.** Members of the Basic Course are required to pursue this course diligently until satisfactorily completed and properly to care for all equipment and apparatus used in their instruction.

#### DESIGNATION OF COURSES—

	Fall Quarter	Winter Quarter	Spring Quarter
1st Year Basic .....	101	102	103
2nd Year Basic .....	201	202	203

**CREDITS:** The Basic Course grants one credit per quarter which is in addition to the 180 academic credit hours required for graduation.

HOURS OF ATTENDANCE. The regular hours of attendance are as follows:

Tuesdays—12:00 noon to 2:00 p. m.

Thursdays—1:00 p. m. to 2:00 p. m.

In addition members of the Reserve Officers' Training Corps are required to form for such ceremonies, inspections and parades as is directed by the President of the College.

### The Advanced Course

This course is elective.

OBLIGATIONS. (a) The student obligates himself to pursue the course while in college and to devote a minimum of five hours per week during such period to military training prescribed.

(b) To attend the advanced course camp training prescribed by the Secretary of War.

(c) To care properly for all articles of equipment furnished him.

(d) He is expected, although not bound, to accept a commission in the Officers' Reserve Corps if such commission is tendered him, unless prevented by exceptional circumstances.

BENEFITS. (a) He will be allowed the commuted value of a complete uniform to be applied toward the purchase of a tailor made uniform. The present commutation for two years is 36 dollars.

(b) He will be paid commutation of rations at the rate fixed for the army from the beginning of his 1st Year Advanced Work until the end of his 2nd Year Advanced Work, except while attending the Advanced Course Camp when he will be subsisted in kind. The present value of the rations as fixed by the President of the United States is 30 cents a day.

(c) He will receive mileage at the rate of five cents per mile both to and from camp.

(d) He will receive pay of the seventh grade in the Regular Army in addition to subsistence furnished. This amounts to 70 cents per day at the present time. This applies to time student is attending camp only.

(e) He will be eligible for appointment as second Lieutenant in the Officers' Reserve Corps of the United States Army upon graduation from the Advanced Course.

(f) He will be excused from Physical Education while taking the advanced course.

DESIGNATION OF COURSES:

	Fall Quarter	Winter Quarter	Spring Quarter
1st Year Advanced . . . .	301	302	303
2nd Year Advanced . . . .	401	402	403

CREDITS. The Advanced Course students receive 3 credits each quarter, or 9 credits per year which count toward the 180 hours required for graduation. In the School of Basic Arts and Sciences, Advanced Military Science and Tactics may be submitted as a minor subject for graduation.

HOURS OF ATTENDANCE:

1st Year Advanced	Mondays	10:00 a. m. to 11:00 a. m.
	Tuesdays	12:00 noon to 2:00 a. m.
	Wednesdays	10:00 a. m. to 11:00 a. m.
	Thursdays	1:00 p. m. to 2:00 p. m.
	Fridays	10:00 a. m. to 11:00 a. m.
2nd Year Advanced	Mondays	9:00 a. m. to 10:00 a. m.
	Tuesdays	12:00 noon to 2:00 p. m.
	Wednesdays	9:00 a. m. to 10:00 a. m.
	Thursdays	1:00 a. m. to 2:00 a. m.
	Fridays	9:00 a. m. to 10:00 a. m.

Other hours suitable to students can be arranged if necessary.

SUBJECT OUTLINE

FIRST YEAR BASIC COURSE

M. S. and T. Numbers 101, 102, 103.

INFANTRY TRAINING. (Practical and Theory)

- (a) Close order drill to include the school of the soldier, squad, platoon, and the battery.
- (b) Military ceremonies to include the battalion.

PHYSICAL TRAINING. (Practical) In this course the object is to give the student a military bearing, to improve his general physical condition, and to teach him the military methods of physical instruction.

MILITARY COURTESY AND DISCIPLINE. This will consist of lectures on the fundamental principles of military discipline, the relation of courtesy to discipline and efficiency, and the established courtesies of the military service with demonstrations of and practical exercises in correct manner of rendering them.

This subject will also include the duties of the members of the interior guard.

**MILITARY POLICY OF THE UNITED STATES.** Organization of the Army of the United States and the general relation of the citizen to the military service.

American history relating to events which show the fallacy of depending upon untrained troops in the event of an emergency.

**MILITARY HYGIENE.** First aid to the injured or sick. Individual, Troop and Camp Sanitation. Personal hygiene.

**MARKSMANSHIP.** (Rifle) Nomenclature and care of the rifle. Sighting and aiming exercises. Position exercises. Trigger squeeze exercises. Rapid fire exercises. Gallery practice.

**NOTE:** Marksmanship is one of the subjects given under Gunners' Instruction for 2nd Class Gunners.

**GUNNERS' INSTRUCTION.** Instruction is given in the following 2nd Class Gunners' subjects:

(a) Tractor Artillery.

- (1) Gun service of the piece to include the actual drill at the gun.
- (2) Nomenclature of the various parts of the gun and carriage.
- (3) Action, adjustment, and care of the various parts of the gun and carriage.
- (4) Powders, projectiles, primers and fuses.
- (5) Cordage, gins, shears, jacks and mechanical maneuvers.
- (6) The magazine rifle (given under marksmanship).
- (7) Use and care of telephone.
- (8) Drill of the rifle squad (close quarters).

(b) Anti-aircraft Artillery.

- (1) Identification of aircraft.
- (2) Cordage and mechanical maneuvers.
- (3) The magazine rifle (given under marksmanship).
- (4) Service of the piece to include ammunition, fuses and projectiles.
- (5) Telephone communication, laying wire, making telephone connections and tests.
- (6) General nomenclature of guns and range instruments.

## SECOND YEAR BASIC COURSE

M. S. and T. Numbers 201, 202, 203.

INFANTRY TRAINING. Same as for First Year Basic Course. During this course selected students will be trained in the duties of cadet officers and non-commissioned officers.

PHYSICAL TRAINING. Same as for First Year Basic. Students pursuing this course will be trained to act as leaders and instructors in physical training.

MILITARY COURTESY AND DISCIPLINE. Same as for First Year Basic.

CITIZENSHIP TRAINING. Same as for First Year Basic.

MILITARY POLICY OF THE UNITED STATES. Same as for First Year Basic.

MILITARY HYGIENE. Same as for First Year Basic.

MARKSMANSHIP (Rifle). Preparatory exercises as for First Year Basic. Gallery practice during Courses 201 and 202. Range practice during Course 203.

GUNNERS' INSTRUCTION. Instruction is given in the following First Class Gunners' Subjects:

(a) Tractor Artillery.

- (1) Use, orientation, and adjustment of fire control instruments.
- (2) Duties of all members of the Range Section.
- (3) Aiming and laying guns.
- (4) Care, service, repair, and operation of trucks and tractors.
- (5) Map reading and sketching.
- (6) Definitions for Coast Artillery.

(b) Anti-aircraft Artillery.

- (1) Operation and care of all fire control instruments, duties of all members of range section in determining and transmitting firing data to the guns.
- (2) Adjustments of recoil system, adjustment and use of sights and of range disc. Preservation of material.
- (3) Nomenclature, care, operation and driving of motor transportation.
- (4) Aiming and laying the gun.

## FIRST YEAR ADVANCED COURSE

M. S. and T. Numbers 301, 302, 303.

**INFANTRY TRAINING.** Students pursuing the advanced course will cover subjects identical with those prescribed for First and Second Year Basic Students. They will be appointed to the higher grades of non-commissioned officers and will be, if capable, appointed to the junior grades of cadet officers. Their duties in such grades will be that of leaders and instructors for members of the Basic Course.

**PHYSICAL TRAINING.** Same as is prescribed for Second Year Basic.

**GUNNERS' INSTRUCTION.** Instruction is given in the following Expert Gunners' Subjects:

**Tractor Artillery**

Duties of the Gun Commander and Gun Pointer:

- (1) Definitions for Coast Artillery
- (2) Guns and Carriages
  - (a) Nomenclature, purpose and action of parts
  - (b) Inspection and maintenance, to include dismounting, care, cleaning, and adjusting of the several parts of the gun and carriage
- (3) Emplacement
  - (a) Preparation of position, to include shelter trenches, ammunition, pits, and camouflage
  - (b) Occupation of and withdrawal from position, to include actually placing the gun in and out of position and the observation of camouflage discipline
  - (c) Maneuvering to include various methods of maneuvering gun in and out of position and on the march and the use of maneuvering material, cordage, tackles, jacks, man power and tractor
  - (d) Protection against aircraft
- (4) Ammunition
  - (a) Storage and care of ammunition
  - (b) Composition of powder charges
  - (c) Primers and fuses
  - (d) Fusing and preparation of projectiles for firing
  - (e) Painting of projectiles



- (5) Service of the Piece  
Duties of each member of the gun section under all conditions
- (6) Safety Precautions
  - (a) Before firing
  - (b) During firing
- (7) Characteristic features of the several classes of warships
- (8) Pointing  
Methods of aiming and laying
- (9) Map reading
  - (a) Scales, contours and conventional signs
  - (b) Location of a position by co-ordinates
  - (c) Follow routes indicated on the map
- (10) Road marches and march discipline

Duties of Observers:

- (1) Definitions for Coast Artillery
- (2) Position finding system
  - (a) Detailed description of a position finding system
  - (b) Indication and Identification of targets
  - (c) Spotting systems
- (3) Position finding apparatus
  - (a) Detailed instruction in the adjustment and use of all observing instruments and range finders
  - (b) Use of the telephone
- (4) Characteristic features of the several classes of warships
- (5) Map reading
- (6) Methods of Observation
  - (a) Unilateral
  - (b) Bilateral
  - (c) Balloon
  - (d) Airplane

- (7) General duties of observers in observation posts
  - (a) During land warfare
  - (b) During sea coast warfare

Duties of Plotter:

- (1) Definition for Coast Artillery
- (2) Position finding systems
  - (a) Detailed knowledge of the system
  - (b) Indication and identification of targets
  - (c) Duties of each member of the range section
  - (d) Emergency Systems and Salvo Points
- (3) Position finding apparatus  
Instruction in the adjustments and use of position finding apparatus
- (4) Elementary Gunnery
- (5) Records and Reports

**Anti-Aircraft Artillery**

Duties of the Gun Commander:

- (1) Definitions
- (2) Guns and Carriages
  - (a) Nomenclature, function and action of the several parts
  - (b) Packing stuffing boxes; draining, cleaning and filling recoil cylinders and recuperators
  - (c) Adjustments of instruments used for sighting and aiming
- (3) Pointing methods
- (4) Mounting and dismounting of gun
- (5) Records and reports
- (6) Organization of a position

Duties of Chief of Range Section

- (1) Definitions
- (2) Methods of determining firing data
- (3) Elementary Gunnery for Anti-aircraft Artillery

- (4) Records and reports

Duties of the Observer:

- (1) Definitions
- (2) Methods of determining firing data
- (3) Indication and identification of targets
- (4) Records and reports
- (5) Instruction in duties while at drill and service target practice.

**GUNNERY:** Instruction to familiarize the student with the elements of gunnery, the trajectory, the abnormal causes of deviation and the general means for their correction.

**ARTILLERY MATERIAL:** A study, prior to going to camp, of the several types of Artillery Material which will enable the student to recognize them when he sees them.

**MILITARY LAW:**

1. Theoretical Instruction:

- (a) Military Law—Definitions, sources and kinds of military jurisdiction. Classification and composition of the court-martial. Exercise of military jurisdiction. Persons subject to military law. Articles of war. Procedure before trial. Procedure of court-martial. Evidence and sentences. Punishment without trial.
- (b) Rules of Land Warfare—Lecture on General Principles.

2. Practical Instruction:

- (a) Moot Court exercise.

**ORIENTATION.** Map reading and map sketching. Use of the Plane Table with alidade and the elements of military surveying.

**MARKSMANSHIP.** Instruction and Range Practice with the Browning Automatic Rifle.

**SECOND YEAR ADVANCED COURSE**

M. S. and T. Numbers 401, 402, 403.

**INFANTRY TRAINING.** Identical with that prescribed for First Year Advanced Students except they will be required to function in the higher grades of cadet officers.

**PHYSICAL TRAINING.** Same as prescribed for First Year Advanced.

**GUNNERY.** Precise gunnery calculations. Preparation of firing data. The theory of probabilities and dispersion. Advanced gunnery. Methods of fire adjustment. Analysis of drill and target practice.

**ARTILLERY MATERIAL.** Instruction to round out and supplement the information received and the instruction received during the First Year Advanced Material and also that gained by student while at Advanced Summer Camp.

**ORIENTATION.** Advanced instruction in the theory and practice of military surveying and its application to artillery problems. Training in the duties of the Artillery Orientation Officer.

**ADMINISTRATION.** Lectures and practical work covering the practical administration of a battery and the management of the soldier as well as interior economy. Preparation of papers pertaining to the administration of a battery. What a lieutenant should know concerning military correspondence, preparation and application of War Department forms, use and disposition of orders, bulletins and circulars.

**MOTOR TRANSPORTATION.** Classes of Army Motor Transportation and their uses. Motor vehicle assembly. Principles of internal combustion engines and gasoline engine details. Timing, engine balance and firing order. Cooling, fuels, and fuel feeding systems. Carburetors and elements of carburetion. Electricity as applied to the motor vehicle including ignition systems. Power transmissions. Running gear, tires and rims. Bearings and lubrication. Driving instruction and troubles, remedies, care and adjustment.

**ARTILLERY TACTICS.** Use of artillery in coast defense and in the field and the relation of artillery to the other arms.

**FIELD ENGINEERING.** Preparation of artillery positions and the emplacement of artillery material. The construction of simple trenches and obstacles.

**MARKSMANSHIP.** Instruction and range practice with the machine gun.

## MODERN LANGUAGES AND LATIN

F. R. ARNOLD, *Professor.*FRED HAMMERLY, *Instructor.*

## JUNIOR COLLEGE COURSES

## French

1, 2, 3. FIRST YEAR FRENCH. Walther and Ballard's Beginner's French for grammar and conversation. About 400 pages of easy prose read.

Sec. 1. Fall, Winter quarters. Five credits each quarter. M. T. W. Th. F. 11:00. Room 351 Main.

*Arnold*

Sec. 2. Fall, Winter and Spring quarters. Three credits each quarter. M. W. F. 8:00.

*Hammerly*

4, 5, 6. SECOND YEAR FRENCH. French composition for grammatical review and writing in French. Lavis's Histoire De France for conversation; translating works of nineteenth century authors. Prerequisite, French 1 or two years high school French. Fall and Winter quarters. Five credits each quarter.

M. T. W. Th. F. 10:00. Room 351 Main.

*Arnold*

## German

1, 2, 3. FIRST YEAR GERMAN. Grammar, reading and conversation. Fall, Winter and Spring quarters. Three credits each quarter.

T. Th. S. 8:00. Room 351 Main.

*Hammerly*

## Spanish

1, 2. FIRST YEAR SPANISH. Grammar, conversation and reading. Fall and Winter quarter. Three credits each quarter.

M. W. F. 9:00. Room 351 Main.

*Arnold*

3. SPANISH. Business correspondence, reading and conversation. Spring quarter. Three credits.

M. W. F. 9:00. Room 351 Main.

(Not given 1926-27.)

## Latin

1, 2, 3. GRAMMAR AND READING and study of English Vocabulary. Fall, Winter quarters. Three credits each quarter.

T. Th. S. 9:00. Room 351 Main.

*Arnold*

4. CAESAR AND CICERO. Fall, Winter and Spring quarters. M. W. F. 9:00. Room 351 Main.

(Not given 1926-27.)

SCIENTIFIC VOCABULARY 1. Intensive study of English word formation, derivation, synonyms, and figurative language in order to acquire a large English vocabulary and readily to understand scientific terms. Especially recommended for students in Historical Geography. Spring quarter. Three credits.

T. Th. S. 9:00. Room 351 Main.

(Not given 1926-27.)

## SENIOR COLLEGE COURSES

## French

101, 102, 103. READING COURSE IN BALZAC'S NOVELS. Prerequisite, two years of college French or three years of high school. Fall, Winter and Spring quarters. One credit each quarter.

T. 12:00. Room 351 Main.

(Not given 1926-27.)

104, 105, 106. FRENCH CONVERSATION. Games, dictation, learning of a one-act play and writing business letters. Prerequisite, two years of college French or three years of high school. Fall, Winter and Spring quarters. One credit each quarter.

T. 12:00. Room 351 Main.

*Arnold*

107, 108, 109. READING COURSE IN LEADING PLAYS OF THE NINETEENTH CENTURY. Prerequisites, two years of college French or three of high school. Fall, Winter and Spring quarters. One credit each quarter.

F. 12:00. Room 351 Main.

*Arnold*



110, 111, 112. RESEARCH WORK in French Periodicals and Books on any one of the following subjects:

- a. Landscape gardening
- b. Percheron horses
- c. French finance
- d. French scientific reports
- e. Home economics
- f. Aviation

The work will consist of outside reading and weekly reports to the instructor. Prerequisite, two years of college French or three years of high school. Fall, Winter and Spring quarters. One credit each quarter.

Hours to be arranged with instructor.

*Arnold*

#### German

101, 102, 103. SCIENTIFIC GERMAN. Rapid reading of scientific texts in different subjects according to the course of each student. Specially recommended for students who have had two years work in German in high school or college and are planning to do advanced work in agronomy, botany or other sciences.

Hours and credits to be arranged with instructor.

*Arnold*

### MUSIC

\_\_\_\_\_, *Professor.*

WALTER WELTI, *Assistant Professor.*

Students may enter the College choir, glee clubs, orchestra or band without taking any other music course. One credit each quarter.

1, 2, 3. ELEMENTARY THEORY. Reviews the ground work necessary for students desiring a thorough knowledge of music. Keys, scales, intervals, melody writing, sign singing. Fall, Winter and Spring quarters. Two credits each quarter.

T. Th. 9:00. Room 252 A Main.

4, 5, 6. APPRECIATION AND HISTORY OF MUSIC. From text. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 11:00. Room 252 A Main.

*Wolti*

7. ANALYSIS AND CRITICISM. Arranged to supplement private music study. Fall quarter. Two credits.

T. Th. 10:00. Room 252 A Main.

(Not given 1926-27.)

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8. AMERICAN MUSIC. Winter quarter. Two credits.

T. Th. 10:00. Room 252 A Main.

(Not given 1926-27.)

9, 10, 11. ELEMENTARY HARMONY. Text used. Home study, six hours as a minimum. Applied music, individual and ensemble. Prerequisite, 2 years' study, piano or equivalent. Fall, Winter and Spring quarters. Three credits each quarter.

Sec. 1. M. W. F. 10:00. Room 252 A Main.

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12, 13, 14. ADVANCED HARMONY AND ANALYSIS. Applied music, individual and ensemble. Prerequisite, Music 3. Home study increased for this course. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 9:00.

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15, 16, 17. COUNTERPOINT AND SMALL FORMS. Prerequisite, Music 4. Fall, Winter and Spring quarters. Five credits each quarter.

(Not given 1926-27.)

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18, 19, 20. ORCHESTRA CLASS. Provides study of standard orchestra works. Two hours a week. Two credits each quarter.

T. 11:00-1:00. Room 252 A Main.

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21, 22, 23. CHOIR. To furnish music for chapel exercises and special occasions. Three hours per week. Fall, Winter and Spring quarters. One credit each quarter.

M. W. F. 12:00. Room Chapel.

*Wolti*

24, 25, 26. GLEE CLUB. An organization of men. Membership is limited in number and decided by competition. Three hours a week. Days and hours of practice to be arranged. Fall, Winter and Spring quarters. One credit each quarter. Room Chapel Main.

*Wolti*

27, 28, 29. LADIES' CHORUS. Membership is limited and decided by competition. Two hours a week. The Glee Club and Ladies' Chorus join in giving the college opera. Fall, Winter and Spring quarters. One-half credit each quarter. Room 251 A Main.

*Walti*

30. PUBLIC SCHOOL MUSIC FOR GRADE TEACHERS. To prepare the average school teacher to teach music in her own grade. The fundamentals of music and how to present them to children, with special emphasis on singing and song material for children. Care and development of child voice. Fall, Winter and Spring quarters. Three credits.

M. W. F. 9:00. Room 152 A Main.

*Walti*

41, 42, 43. BAND. To provide for study and practice of band instruments and to furnish music for athletic meets and out-door gatherings. Fall, Winter and Spring quarters. One credit each quarter.

*Smith*

Private instruction may be had (The pupil paying the teacher's fee) in the following: Voice, Piano, Violin, Orchestral and Band instruments. One credit a quarter in each course will be allowed if pupil is enrolled in Applied Music only.

## PHYSICAL EDUCATION

W. B. PRESTON, M. D., *Associate Professor.*

E. LOWELL ROMNEY, *Director of Athletics.*

KATHERINE COOPER-CARLISLE, *Associate Professor.*

JOSEPH R. JENSON, *Associate Professor.*

\_\_\_\_\_, *Instructor.*

GEORGE NELSON, *Instructor.*

Because physical education determines capacity for efficiently carrying out work which a student prepares for in College it is being emphasized more and more each year.

At the beginning of each school year each student is given a medical and physical examination so that he can be adjusted properly to his physical activities.

Physical Education is required in the Utah Agricultural College for six quarters. One credit hour is given for each quarter.

Freshmen are required to meet three times a week for corrective gymnastics and sophomores are required to take advanced courses meeting twice a week.

### THE COLLEGE HEALTH SERVICE

The Health Service is maintained primarily for the care of students who may become ill during their stay on the campus. It is also looked upon as an educational department to teach preventative medicine and hygiene. Through its consultation, examination, and advice it attempts to point out the causes of ill health and to present clearly the fundamental laws of good health.

### PROFESSIONAL COURSES IN PHYSICAL EDUCATION

Because of the great demand for trained leaders in community recreation, playground managers, directors of physical education for high schools, high school coaches, etc., this department offers an opportunity to major or minor in physical education and also to meet the state requirements for certification of teachers of physical education and coaching in high schools.

### PHYSICAL EDUCATION FOR MEN

All courses given in Men's Gymnasium.

1A. ELEMENTARY GYMNASTICS AND GAMES. Designed to furnish activity of such a kind and in such a way as will insure corrective posture and physical efficiency. Required of all Freshmen. Every quarter. One credit each quarter.

Sec. 1. M. W. F. 9:00.

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

Sec. 3. M. W. F. 12:00.

Sec. 4. M. W. F. 2:00.

*Jenson*

1B. PERSONAL HYGIENE. Lectures covering personal and general hygiene, including care of skin, hair, teeth, nails, care of special senses, as eye, ear, nose, and throat, study of rest, exercise and recreation. Required of all Freshmen and will be given in connection with Physical Education 1. One lecture each week.

Th. 12:00.

*Jenson*

2. **ADVANCED GYMNASTICS.** A continuation of Physical Education 1 with emphasis on more advanced types of gymnastics and heavy apparatus. Required of all Sophomores. Every quarter. One credit each quarter.

Sec. 5. T. Th. 9:00.

Sec. 6. M. W. 11:00.

Sec. 7. T. Th. 2:00.

Sec. 8. T. Th. 10:00.

*Jenson*

3. **SWIMMING.** For men. This course will cover swimming for beginners, diving and life saving.

Daily 4:00.

*Jenson*

## PHYSICAL EDUCATION FOR WOMEN

### JUNIOR COLLEGE COURSES

All courses given in Women's Gymnasium.

13, 14, 15. **FRESHMAN GYMNASTICS.** This course consists of exercises arranged according to their hygiene, corrective and educational value; folk dancing and games, lectures in hygiene. Required for graduation. Three hours a week are required. Students must arrange with the instructor for the third hour. Fall, Winter and Spring quarters. One credit each quarter.

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

Sec. 2. T. Th. 11:00.

Sec. 3. T. Th. 1:00. Women's Gymnasium.

*Carlisle and* \_\_\_\_\_

16, 17, 18. **SOPHOMORE GYMNASTICS.** A continuation of Physical Education 13, 14, 15. Required for graduation. Fall, Winter and Spring quarters. One credit each quarter.

Sec. 1. M. W. 11:00.

Sec. 2. T. Th. 10:00. Women's Gymnasium.

*Carlisle and* \_\_\_\_\_

19, 20, 21. **INDIVIDUAL GYMNASTICS.** The work of this course is given for those students who are physically unable to take Physical Education 13, 14, 15, 16, 17, 18. It is arranged to meet the needs of the individual students, as indicated by the physical examination and study of personal tendencies. Fall, Winter and Spring quarters. One credit each quarter.

Hours to be arranged. Women's Gymnasium.

*Carlisle and* \_\_\_\_\_

31, 32, 33. INTERPRETIVE DANCING. This course consists of dancing as based upon natural movements. It offers an opportunity for music interpretation and pantomimic dancing. Fall, Winter and Spring quarters. One credit each quarter.

M. W. F. 2:00. Women's Gymnasium.

*Carlisle and* \_\_\_\_\_

61, 62, 63. ADVANCED INTERPRETIVE DANCING. A continuation of 31, 32, 33. Open to students approved by instructor. Fall, Winter and Spring quarters. One credit each quarter.

M. W. F. 3:00. Women's Gymnasium.

*Carlisle and* \_\_\_\_\_

81, 82, 83. COMPETITIVE ATHLETICS. A course designed to teach students to play basket ball, baseball, volley ball and tennis. Fall, Winter and Spring quarters. One credit each quarter.

(Any three hours may be elected.)

M. 4:00. T. 5:00. W. 5:00. Th. 3:00. Women's Gymnasium.

*Carlisle and* \_\_\_\_\_

91. SWIMMING. The two sections of the course will cover swimming for beginners, advanced swimming, diving and life saving. Fall quarter. One credit.

Sec. 1. T. Th. 1:00. F. 12:00.

Sec. 2. M. W. F. 2:00. Pool.

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## PROFESSIONAL COURSES

### JUNIOR COLLEGE COURSES

71. THE DRAMATIC GAME. For women. This course takes up the fundamental play rythms and music; the study of dramatic and singing games, showing their historical and racial significance; the development of simple folk dances from singing games; trade dances; Indian dances; pantomimes and cermonies. Fall quarter. Two credits.

T. Th. 9:00. Women's Gymnasium.

*Carlisle*

72. THEORY AND PRACTICE OF PLAYS AND GAMES. For men and women. Study of the theories offered in explanation of the play tendency with Joseph Lee's Play in Education as collateral reading; methods of presenting material in school, gymnasium or playground; organization and administration of playground, school and city recreation. Winter quarter. Three credits each quarter.

T. Th. S. 9:00. Women's Gymnasium.

*Carlisle*



73. COMMUNITY RECREATION LEADERSHIP. For men and Women. consists of lectures and practical work. Lectures will consider selection of suitable material, and methods of handling various groups. The practice hour will take up games and folk dances. Spring quarter. Two credits.

T. Th. 9:00. Women's Gymnasium.

*Jenson*

74. ADVANCED SWIMMING. For men. A continuation of course 3. The student will be required to pass certain standard tests. Fall and Winter quarters. One credit each quarter.

Hours to be arranged.

*Jenson*

75. COMPETITIVE ATHLETICS. A course designed to teach students to play basketball, volley ball, tennis, baseball, soccer football, also the organization of intermural athletics, leagues, etc. Fall and Winter quarters. One credit each quarter.

Hours to be arranged.

*Jenson*

#### SENIOR COLLEGE COURSES

106, 107. APPLIED ANATOMY AND PHYSIOLOGY OF EXERCISE. Prerequisite, Physiology 4. Fall and Winter quarters. Three credits each quarter.

M. W. F. 10:00. Third floor, Widtsoe Hall.

*Carter*

108. CORRECTIVE GYMNASTICS. For women. This course is devoted to the application of gymnastics for the correction of such common defects as flat feet, spinal curvature, etc. Open to Juniors and Seniors. Prerequisite, Physical Education 106, 107. Spring quarter. Three credits.

M. W. F. 9:00. Room 14, Smart Gymnasium.

*Carlisle and \_\_\_\_\_*

120. METHODS OF COACHING. For men. A theoretical consideration of training and coaching of men's athletic teams. Fall and Winter quarters. One credit each quarter.

*Romney*

141, 142, 143. ELEMENTARY FOLK DANCING. For men and women. Includes the study of simple folk and national dances. Study made of presentation of dance material to different age groups. Fall, Winter and Spring quarters. One credit each quarter.

T. Th. 2:00. Women's Gymnasium.

*Carlisle and \_\_\_\_\_*

151, 152, 153. PRINCIPLES OF PHYSICAL TRAINING. For women. This course deals with the principles involved in the teaching of gymnastics, dancing, and games, and gives an opportunity for practice teaching. Prerequisites, Physical Education 71, 72, 73, 141, 142, 143. Fall, Winter and Spring quarters. Two credits for fall and winter quarters, one credit for Spring quarter.

Lec. T. 12:00. Lab. Th. 12:00. Room 14, Smart Gymnasium.

*Carlisle*

161, 162, 163. PRINCIPLES OF PHYSICAL TRAINING. For men. This includes a comparison of the various systems of gymnastic teaching in vogue today. Also elementary and advanced instruction on various pieces of apparatus, tumbling, swimming, boxing and wrestling. Each student is expected to instruct under supervision. Fall and Winter quarters. Two credits fall and winter quarters, one credit for spring quarter. Text, Gymnastics Teaching, Skarstrom.

T. Th. 10:00. Smart Gymnasium.

*Jenson*

170. PHYSICAL DIAGNOSIS AND MEASUREMENTS. For men and women. This course aims to train the prospective physical director to detect the common physical defects. Instruction is given in methods of taking measurements and strength tests. Spring quarter. Three credits.

M. W. F. 11:00. Room 14, Smart Gymnasium.

*Preston*

Additional courses required for majors in physical education:

\*Bacteriology and Physiology 1. Anatomy and Physiology.

*Carter*

\*Bacteriology and Physiology 3. Personal Health.

*Carter*

\*Bacteriology and Physiology 14 or 101. Health Education.

*Carter*

\*Bacteriology and Physiology 102. Advanced Physiology.

*Carter*

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\*The credit for these courses may count toward a major in Physical Education.

## PHYSICS

FRANK L. WEST, *Professor.*WILLARD GARDNER, *Professor.*N. E. EDLEFSEN, *Assistant Professor.*

## JUNIOR COLLEGE COURSES

1, 2, 3. GENERAL PHYSICS. A lecture demonstration course, designed for students not majoring in Physics or Engineering and requiring a minimum of mathematics. It includes mechanics, heat, electricity, sound, magnetism and light with their most interesting applications to industry and to life. Fall, Winter and Spring quarters. Three credits each quarter.

Lec. M. W. F. 11:00. First Floor, Widtsoe Hall. *Edlefsen*

16. METEOROLOGY, or the Physics of the Atmosphere. The methods of weather observation, predictions, frost warnings and the relation of climate to man and to agriculture. Prerequisite, elementary physics. Fall quarter. Two credits.

(Not given 1926-27.)

20. MECHANICS AND MOLECULAR PHYSICS. Prerequisite, high school physics. Fall quarter. Five credits. Lec. M. W. F. 9:00. Lab. M. W. or T. Th. 2:00 to 5:00. First floor, Widtsoe Hall.

*West*

21. ELECTRICITY AND MAGNETISM. Prerequisite, high school physics. Winter quarter. Five credits. Lec. M. W. F. 9:00. Lab. M. W. or T. Th. 2:00 to 5:00. First floor, Widtsoe Hall.

*West*

22. HEAT, LIGHT AND SOUND. Prerequisite, high school physics. Spring quarter. Five credits. Lec. M. W. F. 9:00. Lab. M. W. or T. Th. 2:00 to 5:00. First floor, Widtsoe Hall.

*West*

## SENIOR COLLEGE COURSES

104, 105, 106. PHYSICAL CHEMISTRY. Including atomic theory, Kinetic theory of gasses, electron theory, gaseous, liquid and solid states; solutions, thermo-chemistry, electro-chemistry and radio-activity and elementary thermo-dynamics. General physics, chemistry, and calculus should precede or accompany this course. Fall, Winter and Spring quarters. Four credits each quarter. Lec. M. W. F. 10:00. Lab. F. 2:00 to 5:00. First floor, Widtsoe Hall.

*West*

107. ADVANCED LABORATORY WORK. Electricity and magnetism, or physical chemistry. One to five credits each quarter. Recommended to students majoring in physics.

Time to be arranged.

*Edlefsen*

110, 111, 112. DIRECT AND ALTERNATING CURRENT ELECTRICITY AND ITS APPLICATION TO INDUSTRY. Fall, Winter and Spring quarters. Three credits each quarter. Lec. T. Th. S. 9:00. First floor, Widtsoe Hall.

*Edlefsen*

150, 151, 152. APPLIED MECHANICS FOR ENGINEERS. Prerequisite, Calculus. Fall, Winter and Spring quarters. Five credits each quarter.

Daily except Saturday 8:00.

*Gardner*

160, 161, 162. STATISTICAL METHODS. For students of Agriculture and Business Administration. Prerequisite, Calculus. Fall, Winter and Spring quarters. Three credits each quarter. T. Th. S. 9:00. First floor, Widtsoe Hall.

*Gardner*

#### GRADUATE COURSES

209, 210, 211. THEORETICAL MECHANICS. Prerequisite, Calculus. Fall, Winter and Spring quarters. Three credits each quarter. T. Th. S. 10:00. First floor, Widtsoe Hall.

*Gardner*

212, 213, 214. HYDRODYNAMICS. Prerequisite, Calculus. Fall, Winter and Spring quarters. Three credits each quarter. T. Th. S. 10:00. First floor, Widtsoe Hall.

*Gardner*

215, 216, 217. MATHEMATICAL THEORY OF ELECTRICITY AND MAGNETISM. Fall, Winter and Spring quarters. Three credits each quarter. Prerequisite, Calculus. T. Th. S. 10:00. First floor, Widtsoe Hall.

*Edlefsen*

218, 219, 220. THERMODYNAMICS AND PHYSICAL CHEMISTRY. Prerequisite, Calculus. Fall, Winter and Spring quarters. Two credits each quarter. T. Th. S. 10:00. First floor, Widtsoe Hall.

*West*

221, 222, 223. RELATIVITY. Prerequisite, Calculus. Fall, Winter and Spring quarters. Three credits each quarter. T. Th. S. 10:00. First floor, Widtsoe Hall.

*West*

225. SEMINAR. One of the above graduate courses will be given each year. Fall, Winter and Spring quarters. Three credits each quarter. T. Th. S. 10:00. First floor, Widtsoe Hall.

*Staff*

## POLITICAL SCIENCE

F. D. DAINES, *Professor.*

ASA BULLEN, *Professor.*

### JUNIOR COLLEGE COURSES

1. GOVERNMENT OF THE UNITED STATES. The origin and development of the various departments. Three credits.  
(Not given 1926-27.)

2, 3. GOVERNMENTS OF EUROPE. The government and parties of England will occupy the major part of the time of the Winter quarter. Typical governments of the continent—Switzerland, France, Russia and others. Three credits each quarter.  
(Not given 1926-27.)

5. STATE GOVERNMENT. The relationship of the States and the Nation in our federal form of government. The government of Utah will receive special attention. Fall quarter. Three credits.  
M. W. F. 9:00. Room 361.

*Daines*

8. CURRENT INTERNATIONAL PROBLEMS. The aim of the course is to develop the ability to use understandingly newspapers and other sources of information on current world events. The world problems in which the United States is especially interested are considered. Spring quarter. Three credits.

M. W. F. 9:00. Room 261.

*Daines*

11, 12, 13. COMMERCIAL LAW. The law of contracts, agency, negotiable paper, banks and banking, guaranty and suretyship. A comprehensive study of the principles of law underlying each of the above subjects. Open to all students of Sophomore standing or above. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 8:00. Room 352 Main.

*Bullen*

## SENIOR COLLEGE COURSES

101, 102, 103. INTERNATIONAL RELATIONS. Psychological, economic, racial and other obstacles to international co-operation. International organizations established prior to the World war. The Treaty of Versailles; the League of Nations; and present day world politics. Prerequisites, Political Science, 1, 2, 3 or an equivalent. Three credits each quarter.

(Not given 1926-27.)

104, 105. COMMERCIAL LAW. The law of bailments, sales of personal property, partnerships, corporations and bankruptcy. Prerequisites, Political Science 11, 12, 13. Fall and Winter quarters. Three credits each quarter.

(Not given 1926-27.)

106, 107, 108. COMMERCIAL LAW. The law of property, real and personal, including deeds, conveyancing and abstracts of title, mortgages, will and estates. The law of insurance and debtor and creditor. Prerequisites, Political Science 11, 12, 13. Fall, Winter and Spring quarters. Three credits each quarter.

T. Th. S. 8:00. Room 362 Main.

*Bullen*

109. THE LAW IN BUSINESS PROBLEMS. A study of the legal aspects of business. Prerequisites, Political Science 11, 12, 13 and Political Science 104, 105, or 106, 107, 108. Spring quarter. Three credits.

(Not given 1926-27.)

113, 114, 115. MUNICIPAL GOVERNMENT AND ADMINISTRATION. The government and problems of cities with special reference to American experience. Organization, personnel, and practices which have developed in the performance of the various business functions of the city government. Prerequisites, Political Science 1, 2, 3 or an equivalent. Fall, Winter and Spring quarters. Three credits each quarter.

(Not given 1926-27.)

116. THEORY OF THE STATE. The nature of the State, its organization and activities, and its relation to individuals and to other states. Prerequisites, Political Science 1, 2, 3 or an equivalent. Fall quarter. Three credits.

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

*Daines*



117. AMERICAN POLITICAL IDEAS. Fundamental theories underlying American Political institutions and governmental policies. Prerequisites, Political Science 1, 2, 3 or an equivalent. Winter quarter. Three credits.

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

*Daines*

118. POLITICAL PARTIES. Their function in government; their organization and methods. Prerequisites, Political Science 1, 2, 3 or equivalent. Spring quarter. Three credits.

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

*Daines*

121, 122, 123. INTRODUCTION TO INTERNATIONAL LAW. Rules regulating international intercourse, considered from a non-technical point of view. Emphasis upon America's contribution and stand on disputed questions. Prerequisites, Political Science 1, 2, 3 or an equivalent. Fall, Winter and Spring quarters. Three credits each quarter.

M. W. F. 11:00. Room 361 Main.

*Daines*

124, 125, 126. PUBLIC OPINION. The aim of the course is to investigate the psychological and other factors involved in the determination of opinion on public questions. The reliability of sources of information and the subjective influences that must be taken into consideration are discussed. The use of various methods of spreading propaganda is considered. Prerequisites, Political Science 1, 2, 3 or an equivalent. Fall, Winter and Spring quarters. Three credits each quarter.

T. Th. S. 10:00. Room 361 Main.

*Daines*

TEXTILES AND CLOTHING. (See page 189.)

## VETERINARY SCIENCE

H. J. FREDERICK, *Professor.*

### JUNIOR COLLEGE COURSES

10. VETERINARY ELEMENTS. Introduction to anatomy and physiology and the common ailments of domestic animals; the most prevalent diseases, their distribution, causes, symptoms, course, diagnosis and treatment; observation and practice in the free weekly clinics. Fall or Winter quarter. Four credits. Room 203 Livestock.

Lec. T. Th. S. 8:00. Clinic Monday 2:00 to 5:00. Fall quarter.

Lec. M. W. F. 10:00. Clinic Monday 2:00 to 5:00. Winter quarter.

*Frederick*

15. INDICATIONS OF DISEASE IN ANIMALS. General appearance, nursing, restraint, conformation and soundness, and post-mortem demonstrations. Winter quarter. Three credits.

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

*Frederick*

20, 21, 22. COMPARATIVE ANATOMY. Especially for students in agriculture and animal husbandry; also students wishing to follow veterinary science. This course is supplemented with practical work in dissection, and illustrated by skeletons and models. Fall, Winter and Spring quarters. Three credits each quarter.

Given if 10 students apply.

*Frederick*

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

M. W. F. 9:00. Room 203 Livestock.

*Frederick*

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

Clinic Monday 2:00 to 5:00. Veterinary Hospital.

*Frederick*

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

T. Th. S. 9:00. Room 203 Livestock.

*Frederick*

70. POULTRY DISEASES. The common diseases affecting poultry in this region. Symptoms, diagnosis, prevention, and treatment. Lectures and practical demonstrations. Winter quarter.

Time and credit to be arranged.

*Frederick*

## SENIOR COLLEGE COURSES

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

Room 203 Livestock.

Lec. T. Th. S. 8:00. Clinic Monday 2:00 to 5:00. Winter quarter.

Lec. M. W. F. 10:00. Clinic Monday 2:00 to 5:00. Spring quarter.

*Frederick*

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

Lec. T. S. 10:00. Clinic Monday 2:00 to 5:00. Room 203 Livestock.

*Frederick*

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

Hours to be arranged.

*Frederick*

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

T. S. 11:00. Room 203 Livestock.

*Frederick*

## ZOOLOGY AND ENTOMOLOGY

W. W. HENDERSON, *Professor.*

H. J. PACK, *Professor.*

Students specializing in Zoology must take courses 3, 4, 113, 116, 111, 112, 124, 126. Entomology 13 and English 9 (Scientific Vocabulary) are also required.

## JUNIOR COLLEGE COURSES

1, 2. **ELEMENTARY GENERAL ZOOLOGY.** A study of morphology, physiology, differentiation, adaption, heredity and other zoological principles. A brief survey of the animal kingdom is undertaken to illustrate the application of the foregoing principles in the various groups. Special emphasis is placed on man's relation to the rest of the animal world. This course is intended for those who have not studied zoology before and who desire only a general view of the subject. It is recommended for all students except those in Agriculture and Basic Arts and Science who desire a more comprehensive course. Section 1, Fall and Winter quarters; Section 2, Winter and Spring quarters. Three credits each quarter. Room 227 Main.

Sec. 1. Lec. T. Th. 8:00. Lab. T. or F. 2:00 to 5:00.

Sec. 2. Lec. T. Th. 1:00. Lab. Th. or F. 2:00 to 5:00.

*Henderson and* \_\_\_\_\_

3, 4. **GENERAL ZOOLOGY.** A systematic study of the animal kingdom, its general classification and the relationship of the various groups of animals to each other. Emphasis is placed upon structural characteristics, development, functions, and relation of organs in the different groups. This course is well adapted for premedical students. Fall and Winter quarters. Five credits each quarter. Room 227 Main.

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

*Henderson*

13. **GENERAL ENTOMOLOGY.** A study of the structure, classification and life histories of insects. A course for students who desire a general knowledge of our common insects. Required of all students majoring in zoology. Some field trips will be taken. Fall quarter. Four credits. T. Th. S. 8:00. Lab. W. 2:00 to 5:00.

*Pack*

14. **ECONOMIC ENTOMOLOGY.** Life histories and methods of control of the more injurious insects, with special reference to those of the intermountain region. Winter quarter. Four credits. T. Th. S. 8:00. Lab. W. 2:00 to 5:00.

*Pack*

## SENIOR COLLEGE COURSES

102, 103, 104. **SYSTEMATIC ENTOMOLOGY.** The structure of insects is studied sufficiently to enable the student to use keys employed in classification. Each student must collect, mount, and properly identify a representative collection of insects found in the vicinity of Logan. Fall, Winter and Spring quarters. Three credits each quarter. Graduate credit may be allowed for this course.

T. 2:00 to 5:00, and two other laboratory periods.

*Pack*

106. ENTOMOLOGICAL LITERATURE. Each student investigates and reports on the literature of some insect or insects within his state. Historical development of entomology, current entomological literature and bibliographies are considered. Prerequisites, Entomology 13, 14, and 102. Graduate credit may be allowed for this course. Fall or Winter quarter. Three credits. Hours to be arranged. Room 227 Main.

*Pack*

107. ENTOMOLOGICAL TECHNIC. A study of methods of collecting, preserving and rearing insects, designed to fit students for specialized work in entomology. Graduate credit may be allowed for this course. Prerequisites, Entomology 13, 14 and 102.

(Not given 1926-27.)

*Pack*

108. INSECTS IN RELATION TO MAN. Insects that annoy man, and that carry disease, as well as beneficial insects are considered. A course of important information. Lectures and assigned readings. Winter quarter. Two credits. Room 227 Main.

T. and Th. 10:00.

*Pack*

111. GENETICS. The biological principles of life and the inheritance of characters. A study of the germ cells with reference to heredity. The questions of variation, mutation, the inheritance of acquired characters, pure lines, Mendelism, sex-determination and genetic principles generally are the main subjects of discussion. Prerequisites Zoology 1, 2 or 3, 4. Fall quarter. Three credits.

M. W. F. 11:00. Room 227 Main.

*Henderson*

112. EUGENICS. The principles of genetics as applied to the human race. Attention is given the historical development of and needs for eugenics, the inheritance of physical, mental and moral traits, human crosses, consanguineous marriages, eugenic procedure and other principles which influence the innate qualities of human beings. Prerequisites, Zoology 111. Spring quarter. Three credits.

M. W. F. 11:00. Room 227 Main.

*Henderson*

113, 114. COMPARATIVE ANATOMY. The morphology, physiology and anatomy of the animal body. Prerequisite, Zoology 1, 2 or 3, 4. Zoology 113 is prerequisite to Zoology 114 and both are prerequisite to Zoology 115. Winter and Spring quarters. Four credits each quarter.

Hours to be arranged. Two lectures and two laboratories a week.

*Henderson and* \_\_\_\_\_

115. EMBRYOLOGY OF THE VERTEBRATES. A general course in embryology. A comparative study of embryological development of Amphioxus, frog, chick and man. Prerequisite, Zoology 101, 102. Spring quarter. Five credits. Hours to be arranged. Three lectures and two laboratories a week.  
(Not given 1926-27.)

*Henderson and \_\_\_\_\_*

116. PARASITOLOGY. The classification, morphology and life history of human parasites. The disease-producing protozoans, flukes, tapeworms and round worms, receive special study. Arthropods as external parasites and carriers of pathogenic organisms receive attention. This course should be taken by all premedical students. Spring quarter. Four credits. Lec. T. Th. S. 10:00. Lab. Th. 2:00 to 5:00.

*Henderson*

121. HISTOLOGY. A general course of histology. Lectures and laboratory work in the principles of technic, practice in the preparation of slides and a study of epithelial tissue. Prerequisite, Zoology 3, 4. Time and credits to be arranged.

*Henderson*

124, 125, 126. BIOLOGICAL SEMINAR. The students and faculty of the departments of Botany and Zoology meet for one hour each week and hear reports from the members of the seminar on topics of mutual interest. Students specializing in Zoology must attend and participate in the activities of this seminar for at least three quarters. One credit each quarter.

Time to be arranged.

*The Staff*

## GRADUATE COURSES

201. ZOOLOGICAL RESEARCH. The student who wishes to engage in some line of original research and is qualified to do so may elect and study some topic from eugenics, ecology, morphology or other branch of zoology. Open to under-graduate students only by special arrangement with the department. Thesis required. Hours to be arranged.

*Henderson*

210. ENTOMOLOGICAL RESEARCH. Students may select or will be assigned certain problems dealing with different phases of entomology. The amount of credit will depend on the nature of the problem and the time spent. Thesis. Open to undergraduates only by special permission. Prerequisites, Entomology 13, 14, and 102.

*Pack*



# School of Agricultural Engineering

## AGRICULTURAL ENGINEERING

### AGRICULTURAL SURVEYING

RAY B. WEST, *Professor.*

EDMUND FELDMAN, *Associate Professor.*

### JUNIOR COLLEGE COURSES

1. FARM SURVEYING. For students of agriculture. Practice in the handling of surveying instruments that may be purchased by the average farmer. Running of ditch lines, grading and leveling of land, retracting of section lines, and laying out drains and buildings. Spring quarter. Three credits. Room 205 Ag. Eng. Lec. Hour to be arranged.

Lab. T. Th. or M. W. 2:00 to 5:00.

*Feldman*

2. SURVEYING FOR AGRICULTURAL ENGINEERS. This is a more thorough course than Surveying 1, and covers, in addition to the above, a study of the instruments used by engineers. Fall quarter. Three credits. Room 205 Ag. Eng. Lec. Hour to be arranged.

Lab. M. W. or T. Th. 2:00 to 5:00.

*Feldman*

3. SURVEYING FOR ENGINEERS. Topographical surveying, hydrographic surveying and some rural and city surveying. Prerequisite, Trigonometry. Spring quarter. Three credits. Room 203 Ag. Eng. Lec. Hour to be arranged. Lab. M. W. or T. Th. 2:00 to 5:00.

*Feldman*

4. MAPPING. Practice in the mapping of the various kinds of surveys that may be encountered by the agricultural engineer. Winter quarter. Three credits. Room 307 Ag. Eng. (See mechanical Drawing 31.)

Lab. M. T. Th. 2:00 to 5:00.

*Feldman*

### SENIOR COLLEGE COURSES

101. SOIL AND OTHER AGRICULTURAL SURVEYS. The methods of preparing maps of a given agricultural area and surveys of the agricultural interests within the area. Fall quarter. Three credits.

Prerequisite, Surveying 1. Open to Junior College students. Room 203 Ag. Eng.

Hours to be arranged.

*West*

102. CANAL AND ROAD SURVEYING. Instructions and practice in the application of surveying methods used in the layout and construction of canals and roads. Prerequisite, Surveying 2 and 3. Spring quarter. Five credits. Room 203 Ag. Eng. May be used as a major in Highways.

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

*West*

### APPLIED MECHANICS AND DESIGN

RAY B. WEST, *Professor.*

WILLARD GARDNER, *Professor.*

EDMUND FELDMAN, *Associate Professor.*

### JUNIOR COLLEGE COURSES

1. MATERIALS OF ENGINEERING AND PLAIN CONCRETE. The chemistry of steel, the alloys, etc., and their special use in machine parts; strength, composition and proper use of the woods, plaster, glass, glue, paints, brick, etc., in building. Cement, sand and gravel. Mechanical analysis, curves, cement and concrete testing. Fall quarter. Two credits. Concrete Lab. Ag. Eng.

T. Th. 2:00 to 5:00.

*Feldman*

### SENIOR COLLEGE COURSES

101, 102. THEORETICAL MECHANICS. (See Physics 151.) Statics and kinetics, resultant of forces, equilibrium of force systems, friction; moments, and moments of inertia, force, mass and acceleration; work and energy; impulse and momentum. Fall and Winter quarters. Five credits each quarter.

Lec. Daily except Saturday 8:00.

*Gardner*

103. APPLIED MECHANICS AND STRENGTH OF MATERIALS. The simple machine reaction, moments and shears. The design of beams and columns. Spring quarter. Two credits.

Lec. Daily except Saturday 8:00.

*Gardner*

106. REINFORCED CONCRETE. The fundamental principles of reinforced concrete design. Slabs, beams, girders, and columns. Winter

quarter. Five credits. Prerequisite, Mech. 101, 102, 103. Room 305 Ag. Eng.

Lec. M. W. F. 11:00. Lab. T. Th. or M. W. 2:00 to 5:00.

*Feldman*

107. MASONRY CONSTRUCTION. A continuation of course 106 with special application to foundations, bridges, retaining walls, drains, and irrigation structures. Spring quarter. Three credits. Room 307 Ag. Eng.

Lab. T. F. 1:00 to 5:00.

*Feldman*

110. GRAPHIC STATICS. The graphical analysis of stresses in framed structures. Fall quarter. Three credits. Prerequisites, Mechanics 101, 102, 103. Room 307 Ag. Eng.

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

*Feldman*

111. BRIDGE ANALYSIS. The algebraic and graphical analysis of stress in the modern types of highway bridge trusses. Special attention is given to the influence lines and equivalent uniform loads. Prerequisite, Applied Mechanics and Design 110. Winter quarter. Three credits.

Lec. T. Th. S. 9:00. Room 307 Ag. Eng.

*Feldman*

112. BRIDGE DESIGN. The design of the modern types of highway bridges and culverts in wood, steel and concrete. Prerequisite, Applied Mechanics and Design 111. Spring quarter. Three credits.

Lec. M. W. F. 9:00. Room 307 Ag. Eng.

*Feldman*

## GRADUATE COURSES

201. INDETERMINATE STRUCTURES. The nature of the problem. The elastic theory; method of least work; moment area method and method of elastic weights. Three credits. Room 306 Ag. Eng.

Hours to be arranged.

*Feldman*

202. INDETERMINATE STRUCTURES. The application of Applied Mechanics and Design 201 to the solution of problems in steel and concrete. Box culverts, continuous span concrete slab highway bridges, swing bridges and other problems. Three credits. Room 306 Ag. Eng.

Hours to be arranged.

*Feldman*

## HIGHWAY ENGINEERING

RAY B. WEST, *Professor.*

WILLIAM PETERSON, *Professor.*

EDMUND FELDMAN, *Associate Professor.*

## JUNIOR COLLEGE COURSES

1. HIGHWAY CONSTRUCTION. Location, grade, drainage, resistance to traction, road materials, construction methods and costs. Fall quarter. Five credits. Room 203 Ag. Eng.

Daily except Tuesday, 11:00.

*West*

2. ROAD MATERIALS. Dynamical and structural geology as it applies to construction. Special attention is given to materials affecting highway construction, dams, excavations. Winter quarter. Five credits. Room 283 Main.

Daily except Tuesday, 11:00.

*Peterson*

4. INSPECTION OF HIGHWAY CONSTRUCTION. A study of the road inspector's duties on all types of roads, pavements and bridges. Winter quarter. Three credits.

T. Th. S. 9:00. Room 203 Ag. Eng.

*West*

5. HIGHWAY STRUCTURES AND DESIGN. The design of manholes, catch basins, fences and guard rail details, road and pavement cross-sections, etc. Any quarter. Two credits. (See Mechanical Drawing 14.)

Hours to be arranged. Room 203 Ag. Eng.

*Feldman*

## SENIOR COLLEGE COURSES

101. ROAD MAINTENANCE. Road organizations, employment of labor, cost of maintenance, width of tires, size of wheels, maintaining drainage, repairing worn surfaces, comparison of different road machines, etc. Spring quarter. Three credits. Room 283 Main.

Hours to be arranged.

*Peterson*

102. HIGHWAY ADMINISTRATION AND DESIGN. State, County and City highway departments, highway and local improvement laws, traffic regulations, taxation and methods of financing county roads and city pavements. Economic design and reconstruction. Winter quarter. Three credits.

Lec. M. W. F. 8:00. Room 203 Ag. Eng.

*West*

103. CONTRACTS AND SPECIFICATIONS. The form and essential considerations in drawing up engineering contracts and specifications. Fall quarter. Three credits.

Lec. M. W. F. 9:00. Room 203 Ag. Eng.

*West*

104, 105, 106. SEMINAR. One credit per quarter. Room 205 Ag. Eng. Fall quarter, M. 2:00 to 5:00. Winter quarter, F. 2:00 to 5:00. Spring quarter, T. 2:00 to 5:00.

*West*

107. TRANSPORTATION. Development of highway transportation. Comparison of methods of transport of passengers and commodities by highway, railway and waterway. Organization and operation of Rural Motor express lines, freight lines and bus lines, etc. Spring quarter. Three credits.

T. Th. S. 9:00.

*West*

### RURAL ARCHITECTURE

RAY B. WEST, *Professor.*

CALVIN FLETCHER, *Professor.*

EDMUND FELDMAN, *Associate Professor.*

### JUNIOR COLLEGE COURSES

1. FARM STRUCTURES. The arrangement, design and construction of barns, stables, poultry houses, silos and other farm structures. Prerequisite, Mechanical drawing 1 or 2. Winter quarter. Three credits.

Lec. M. W. F. 11:00. Room 203 Ag. Eng.

*West and Feldman*

2. POULTRY HOUSE DESIGN. The plans and layout of the various types of structures used in Poultry Husbandry, complete layout of poultry ranch. Prerequisites, Rural Architecture 1, or Mechanical Drawing 1 and 2. Three credits. (See Mechanical Drawing 4.) Any quarter.

T. Th. S. 9:00 to 12:00. Room 307 Ag. Eng.

*Feldman*

3. BARN AND STABLE DESIGN. Various types of barns and stables, layouts and construction. Prerequisites, Rural Architecture 1, or Mechanical Drawing 1 and 2. Three credits. (See Mechanical Drawing 5.) Any quarter.

T. Th. S. 9:00 to 12:00. Room 307 Ag. Eng.

*Feldman*

4. CONCRETE CONSTRUCTION FOR AGRICULTURAL PURPOSES. Various mixtures of cement and their uses; the use of concrete in making barns, water troughs, posts, etc. Spring quarter. Three credits.

Hours to be arranged.

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5. PLANNING OF FARM STRUCTURES AND HOMES. The making of plans for farm buildings, including complete specifications, cost of materials and construction. Winter quarter.

Hours to be arranged.

*West*

6. HOUSE BUILDING AND CONTRACTING. Various methods of construction; the frame, two brick, three brick, stucco, single cement block and stuccoed hollow tile; cost and economy of each; interior finishing. Winter quarter. Five credits.

Daily except Saturday 10:00. Room 203 Ag. Eng.

*West*

#### SENIOR COLLEGE COURSES

101. RURAL ARCHITECTURE. Architectural composition, study of the principles of composition as applied to building, emphasis being placed on correction of common errors in the design of elevations. Open to junior college students. Ten studio hours. Fall quarter. Three credits. Art studio, Main.

Hours to be arranged.

*Fletcher*

102. ARCHITECTURAL COMPOSITION. Continuation of course 101 with special attention to the relation of all the parts of the exterior and architectural effects in environment. Prerequisite, Rural Architecture 101. Open to Junior College students. Ten studio hours. Winter quarter. Three credits.

Hours to be arranged. Art studio, Main.

*Fletcher*

103. STYLES IN ARCHITECTURE. Study of the great styles or periods or architecture with special attention to those phases most vital to an understanding of modern buildings. Open to Junior college students. Ten studio hours. Spring quarter. Three credits. Art Studio, Main.

Hours to be arranged.

*Fletcher*



## IRRIGATION AND DRAINAGE

O. W. ISRAELSEN, *Professor.*GEORGE D. CLYDE, *Assistant Professor.*

Students who major in Irrigation and Drainage will be required to complete all of the Junior College and Senior College courses or their equivalents and to present a thesis concerning some special problem to be assigned by the Department, as announced in Course 110, 111.

They will also be required to spend at least one summer of 12 weeks in doing some kind of practical work in irrigation or drainage, for which they may receive remuneration; such work to be approved by the head of the department.

## JUNIOR COLLEGE COURSES

1. IRRIGATION AND DRAINAGE PRACTICE. Water measurement, effect of soil and plant on time and frequency of irrigation, duty of water, design of farm ditches and preparation for farm drainage. These courses may be used as a major or minor in the Department of Agronomy. Summer quarter designed especially for high school instructors.

Sec. 1. Fall quarter for students in Engineering. Sec. 2. Spring quarter for students in Agriculture. Five credits. Room 304 Ag. Eng.

Lec. M. W. F. 11:00. Sec. 1. Lab. M. W. 2:00 to 5:00. Sec. 2. Lab. M. Th. 2:00 to 5:00. (Will not be given during the fall of 1926.)

Fall quarter	<i>Clyde</i>
Spring quarter	<i>Israelsen</i>
Summer quarter	<i>Israelsen</i>

## SENIOR COLLEGE COURSES

101, 102. HYDRAULICS. Laws of liquids in motion and at rest, flow in natural and artificial channels and elementary principles of water power development. Winter and Spring quarters. Three credits each quarter.

Lec. M. W. 9:00. Lab. F. 2:00 to 5:00. Room 304 Ag. Eng.

*Clyde*

103. DESIGN OF DRAINAGE SYSTEMS. Preliminary survey, location of drains, flows in open channels and construction of drainage systems with special reference to drainage of irrigated lands. Prerequisites, Irrigation 101 and 102. Spring quarter. Five credits.

Lec. M. W. F. 10:00. Lab. S. 8:00 to 12:00. Room 304 Ag. Eng.

*Israelsen*

104, 105. DESIGN OF IRRIGATION SYSTEMS. Sources of water supply, diversion works, canal alignment and cross section, flumes, drops and spillways. Prerequisites, Irrigation 101 and 102 and Mechanics 101, 102. Fall and Winter quarters. Five credits each quarter. Room 304 Ag. Eng.

Lec. M. W. F. 10:00. Lab. M. W. 2:00 to 5:00.

*Israelsen*

107, 108. IRRIGATION INSTITUTIONS. Water right doctrines, laws governing the adjudication and acquirement of water rights and the distribution of water; organization of irrigation enterprises. Prerequisite or parallel, a general course in Economics or Sociology. Winter and Spring quarters. Three credits each quarter.

M. W. F. 11:00. Room 304 Ag. Eng.

*Clyde*

110, 111. UNDERGRADUATE THESIS AND SEMINAR. Papers and discussions upon problems concerning irrigation or drainage. Required of students who major in Irrigation and Drainage. Fall and Winter quarters. One credit each quarter.

Hours to be arranged.

*Israelsen or Clyde*

## GRADUATE COURSES

As a condition for enrollment in a graduate course, the student must submit satisfactory evidence of his qualifications for the work proposed to the professor in charge of the course.

206. MANAGEMENT AND OPERATION OF IRRIGATION SYSTEMS. Delivery of water to irrigators, annual water charges, operation costs. Prerequisite, Design of Irrigation Systems. Winter quarter. Three credits.

Hours to be arranged.

*Israelsen*

230. HYDROLOGY. The occurrence, utilization and control of water, rainfall, stream flow and runoff, measurements and records, reservoirs, and pumping for irrigation. Open to specially prepared seniors. Winter quarter. Three credits. Hours to be arranged.

*Clyde*

298. RESEARCH IN IRRIGATION AND DRAINAGE. Specially prepared undergraduates, or graduate students may elect a problem in irrigation or drainage for investigation, subject to the approval of the professor in charge. Such investigations may be conducted at the college or elsewhere. The studies may be used as a basis for a thesis to meet in part the requirements for an advanced degree. Any quarter. Credits and hours to be arranged.

*Israelsen and Clyde*

## School of Mechanic Arts

### FARM AND AUTO MECHANICS

#### AUTO MECHANICS

A. H. POWELL, *Associate Professor.*

S. R. STOCK, *Instructor.*

#### JUNIOR COLLEGE COURSES

1. AUTOMOBILE DESIGN AND CONSTRUCTION. A course for beginners. This course is a thorough study of the design and construction and function of the various units and parts of the automobile, with special reference to gas engine principles and the mechanism involved. This course or its equivalent must be taken by all students who wish to specialize in any branch of automobile work. Four credits. Room 205 Mechanic Arts.

Sec. 1. Fall quarter M. W. F. 8:00 to 11:00.

*Powell*

2. AUTOMOTIVE DESIGN AND CONSTRUCTION. A continuation of Auto Mechanics 1. It also deals with the dismounting and the assembling of the automobile. Four credits. Winter quarter. Room 205 Mech. Arts.

M. W. F. 8:00 to 11:00.

3. AUTOMOBILE CARE AND MAINTENANCE. (Special.) For Winter students only. This course is designed especially for winter course or short term students who wish to learn enough about the care and operation of the automobile to enable them to make their own minor repairs and adjustments. Oils, lubrication, valve grinding, bearing cutting, fitting of piston rings, etc, will be taken up along with many other problems that the average car owner has to be familiar with if he is going to do his own repairing and care for his car properly. Four credits. Winter quarter. Room 205 Mech. Arts.

T. Th. S. 8:00 to 11:00.

Auto Mechanics 4, 105, and 106 are advanced courses. They must be taken by all students who intend to specialize in garage management, garage practice, teaching or repairing. The course will cover the detailed theory, operation, advantages in design and construction of all modern makes of cars, and automobile equipment and appliances. Methods of systematic location of trouble, dismantling, repairing and assembling. Modern shop methods, tools and equipment. Prerequisites, Auto Mechanics 1 and 2 or their equivalent.

4. AUTOMOBILE REPAIR. Four credits. Spring quarter. Room 205 Mech. Arts.

M. W. F. 8:00 to 11:00.

5. AUTOMOBILE CARE, ADJUSTMENTS AND LUBRICATION. For automobile owners and anyone desiring a course that will enable them to do their own service work on Automobiles, to enable them to operate the car in the most efficient way and to reduce to a minimum the cost of operation. It will include all phases of lubrication, carburetion, brake adjustments, tappet adjustment and correct general principles of operation. Fall and Spring quarters. Room 206 Mech. Arts.

M. W. F. 11:00 to 12:00. Two credits.

*Powell*

#### SENIOR COLLEGE COURSES

105. AUTOMOBILE REPAIR. Prerequisite, Auto Mechanics 4. Winter quarter. Four credits. Room 205 Mech. Arts.

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

106. AUTOMOBILE REPAIR. A continuation of Auto Mechanics 105. Includes shop methods and equipment. Prerequisite, Auto Mechanics 105.

Spring quarter. Four credits. Room 205 Mech. Arts.

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

107. GASOLINE ENGINE CARBURETION AND CARBURETOR. Internal combustion, engine fuels, and a thorough treatise on the principles of carburetion, the construction of carburetors and their relation to successful gas engine operation. Practice in repairing, overhauling and adjusting of carburetors, thorough study of the modern devices and improvements on new models will be taken up. Prerequisites, Auto Mechanics 4 and Ignition 119. Fall quarter. Three credits. Room 206 Mech. Arts.

T. Th. 2:00 to 5:00.

*Stock*

## FARM MECHANICS

## JUNIOR COLLEGE COURSES

9. FARM MOTORS. This course will cover the care, adjustment and lubrication of the automobile, the tractor, the stationary gas engine, and the home lighting and water system, the care of this equipment when not in use, and precautions to be taken when preparing it for operation. It will also include bearings and bearing adjustment, babbiting and fitting of babbited bearings, soldering, and fundamental principles of power transmission by the use of belting and pulleys, care of belts and speed calculations. Fall quarter. Three credits.

T. Th. 2:00 to 5:00. Room 202 Mech. Arts.

*Powell*

12. FARM SHOP REPAIR WORK. (See Wood Work Unit C.) This course is especially arranged for agricultural students. The application of forging operations to repairs on the farm. The repairing of the following farm implements will be included in the course: the plow, wagon, harrow, hay rake, mowing machine, binder, header, etc., making and tempering punches and cold chisels, sharpening and tempering harrow teeth, picks, etc. Fall or Spring quarter. Two credits.

T. Th. 2:00 to 5:00. Room 107 Mech. Arts.

*Egbert*

14. FARM MACHINERY. A complete assembling, adjusting, care and repair of the various types of farm implements and farm machinery. Spring quarter. Three credits.

T. Th. 2:00 to 5:00. Room 205 Mech. Arts.

*Powell*

## IGNITION, STARTING AND LIGHTING

## JUNIOR COLLEGE COURSES

15. ELEMENTS OF ELECTRICITY AND MAGNETISM. A complete study of magnets, magnetism and the elementary principles of electricity. It includes a study of the units of electricity, their governing laws, power measurements, induction, electro magnets, sizes of wires and their carrying capacity, dry cells and their application to the automotive electrical industry. Required of all students specializing in Ignition, Starting and Lighting. Fall quarter. Four credits.

T. Th. S. 8:00 to 11:00. Room 203 Mech. Arts.

*Stock*



16. IGNITION, STARTING AND LIGHTING (Special). For Winter quarter students only. This course is designed especially for short term students who wish to learn enough about the electrical apparatus of the automobile to enable them to care for and locate electrical troubles and make minor repairs. It will include a study of spark plugs, high and low tension coils, ignition timing, high and low tension magnetos, battery ignition systems, care and testing of batteries and adjusting the charging rate of generators. Winter quarter. Four credits. Room 203 Mech. Arts.

M. W. F. 8:00 to 11:00.

*Stock*

17. STORAGE BATTERIES. The aim of this course is to furnish students the experience necessary to enable them to care for and handle a battery service station and repair shop. A thorough study of the different types and makes of batteries will be made. Practice will be given in testing, charging, discharging, disassembling and rebuilding and in the diagnosis of battery trouble. Prerequisite, Ignition 15. Four credits. Room 203 Mech. Arts.

Sec. 1. Fall quarter. M. W. F. 2:00 to 5:00.

Sec. 2. Winter quarter. T. Th. S. 8:00 to 11:00.

*Stock*

18. HIGH AND LOW TENSION MAGNETOS. A complete study of all low and high tension magnetos as to design, construction and operation. Prerequisite, Ignition 15. Spring quarter. Four credits. Room 203 Mech. Arts.

T. Th. S. 8:00 to 11:00.

*Stock*

### SENIOR COLLEGE COURSES

119. STARTING, LIGHTING AND IGNITION SYSTEMS. A complete study of the modern starting, lighting and ignition systems, their operation, design, and construction; the direct current motor and generator; voltage and current regulation by vibrating relays; third brush; battery cutouts; reading and drawing of wiring diagrams and electrical devices. Ample practice is given in dissembling and assembling, also trouble shooting; testing and adjusting of the various units taken up to enable the students to handle such work in the repair shop. Prerequisite, Ignition 15, 17, 18. Fall quarter. Four credits. Room 203 Mech. Arts.

M. W. F. 8:00 to 11:00.

*Stock*

120. MOTOR AND GENERATOR REPAIR AND ARMATURE WINDING. A thorough study of direct current starting motors and generators; their construction, operation and repair including armature field



and commutator testing; a systematic location and repair of all troubles encountered in the modern starting motors and generators; armature winding, as far as is practical for modern up-to-date garages and service stations. Prerequisites, Ignition 119. Winter quarter. Four credits.

M. W. F. 2:00 to 5:00. Room 203 Mech. Arts.

*Stock*

121. IGNITION TROUBLE WORK. The systematic location of trouble, service work, adjusting and minor repairs. Spring quarter. Four credits.

M. W. F. 8:00 to 11:00.

*Stock*

122. STORAGE BATTERY REPAIR AND SHOP MANAGEMENT. This course should prepare a student to handle a storage battery service station and repair shop. Considerable practice in the diagnosis of storage battery troubles, rebuilding of batteries, servicing of new batteries and winter storage methods. It will also include business methods and commercial management costs and installation of battery shop equipment. Four credits.

Spring quarter. T. Th. 1:00 to 5:00.

*Stock*

123. AUTOMOTIVE ELECTRICAL EQUIPMENT AND SHOP MANAGEMENT. This course should prepare a student to handle an Automotive Electrical service station and repair shop. Considerable practice in the wiring, trouble shooting and repair of all kinds of electrical equipment. Shop kinks and the development of skill, accuracy and speed to prepare the student better to compete with those already in the commercial field will be given. Business methods and commercial management, also costs and proper installation of shop equipment. Prerequisite, Starting, Lighting and Ignition 120. Spring quarter.

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

*Stock*

## OXY-ACETYLENE, ELECTRIC ARC AND RESISTANCE WELDING

### JUNIOR COLLEGE COURSES

26. OXY-ACETYLENE AND ELECTRIC ARC WELDING. The oxy-acetylene welding process, equipment and gasses, properties of the various metals, etc. Practice in the welding of cast iron, steel, aluminum, and other metals is given, also the proper methods of pre-heating and the preparation of cylinder clocks and other castings that are to be welded in the latter part of the course. A special fee

of \$25.00 is required for all students taking this course. Winter quarter. Room 202 Mech. Arts.

T. Th. 2:00 to 5:00. Three credits.

*Powell*

27. A continuation of course 26. Time and credit to be arranged.

*Powell*

## TRACTOR REPAIR AND OPERATION JUNIOR COLLEGE COURSE

29. GASOLINE TRACTOR OPERATION AND REPAIRING. The overhauling of the tractor including babbiting of bearings, fitting of new parts and operation of the tractor. Fall quarter. Four credits.

M. W. F. 2:00 to 5:00. Room 206 Mech. Arts.

Repeated Spring quarter. T. Th. 8:00 to 11:00.

## SENIOR COLLEGE COURSE

131. TRACTOR REPAIR AND OPERATION. An advanced course for men wishing to specialize in tractor service work. It includes field work, operating problems, trouble shooting, and repairs. Fall quarter. Four credits.

T. Th. S. 8:00 to 11:00. Room 205 Mech. Arts.

## MECHANIC ARTS

### FORGING AND GENERAL BLACKSMITHING

ROY EGBERT, *Assistant Professor.*

An average of one-third of the time in all courses in forging is spent demonstrating and lecturing. All courses are given in the Forge rooms, Mechanic Arts Building.

### JUNIOR COLLEGE COURSES

1, 2, 3. FORGE PRACTICE. Forging, welding, tempering, tool making and other operations essential to forge shop work. Open to Vocational students. Fall, Winter and Spring quarters.

Sec. 1. M. W. F. 8:00 to 11:00. Four credits.

Sec. 3 and 4. Daily, except Saturday 2:00 to 5:00. Six credits.  
*Egbert*

4, 5, 6. FORGE SHOP OPERATIONS. Advanced and general repair work, including plow work, spring work, axle and tire setting, and

horseshoeing. Prerequisites, Forge Practice 1, 2, 3. Fall, Winter and Spring quarters.

Sec. 1. M. W. F. 8:00 to 11:00. Six credits.

Sec. 2. Daily, except Saturday. 2:00 to 5:00. Five credits.

*Egbert*

7, 8, 9. SELECT WORK FROM FORGE PRACTICE 1, 2, 3 for automobile and tractor students who cannot spend each day in the shops. Fall, Winter and Spring quarters. Sec. 1, 2, 3, four credits each quarter. Sec. 4, three credits each quarter.

Sec. 1. M. W. F. 8:00 to 11:00.

Sec. 3. M. W. F. 2:00 to 5:00.

Sec. 4. T. Th. 2:00 to 5:00.

*Egbert*

### SENIOR COLLEGE COURSES

100. ADVANCED SHOP PRACTICE. Composition and head treatment of steel. The student may emphasize any line of blacksmithing work that suits his particular needs. Prerequisites, Forging 4, 5, 6. Five credits.

Daily 2:00 to 5:00.

Credit will be given for unfinished courses according to work done. Not less than two credits will be given.

*Egbert*

101. SMITH-HUGHES UNIT. Metal Work. Cold metal, hot metal, soldering, sheet metal and plumbing. Fall and Spring quarters. Three credits a quarter.

T. Th. 2:00 to 5:00.

*Egbert*

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

### MACHINE WORK

AARON NEWAY, *Associate Professor.*

All courses given in Machine Shops, Mechanic Arts Building.

### JUNIOR COLLEGE COURSES

1, 2, 3. MACHINE SHOP PRACTICE. Lathe, planer, shaper, drill press operations, the use of hand tools, laying out and making automobile and machine parts and other operations essential to machine shop practice. The shop work is supplemented each quarter by a

course in shop technology and shop mathematics. Open to vocational students. These courses may not be used to fill requirements for major.

Daily 2:00 to 5:00. Fall, Winter and Spring quarters.

Each course six credits.

Daily 8:00 to 11:00. Winter quarter. Each course seven credits.

4. SHORT COURSE. Work selected from Machine Shop Practice 1. Open to vocational students. Four credits.

Fall, Winter and Spring quarters.

M. W. F. 8:00 to 11:00.

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

5. ADVANCED SHORT COURSE. Work selected from Machine Shop Practice 2 including Shop Technology and Shop Mathematics. Prerequisite, Short Course. Open to vocational students. Four credits. Fall, Winter and Spring quarters.

M. W. F. 8:00 to 11:00.

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

- 6, 7, 8. GENERAL MACHINE WORK. Advanced lathe and planer work, milling, gear cutting, tool grinding, building simple machines and automobile parts. Prerequisite, Machine Shop Practice 3. Fall, Winter and Spring quarters.

Daily 2:00 to 5:00. Each course five credits.

### SENIOR COLLEGE COURSES

101, 102, 103. TOOL MAKING. These courses include practice in making arbors, gauges, taps, reamers, milling cutters, etc., and in designing and building special tools. Prerequisite, General Machine Work. Fall, Winter and Spring quarters.

Daily 2:00 to 5:00. Each course five credits.

Note: For unfinished courses, credit will be given according to work done. Not less than two credits will be given.

### MECHANICAL DRAWING

EDMUND FELDMAN, *Associate Professor.*

Drawing rooms are open from 8:00 a. m. to 5:00 p. m. daily. Supervised instruction given from 9:00 to 12:00 and 2:00 to 5:00 on Tuesdays, Thursdays and Saturdays. Three hours per week are required for one credit, but credit will be granted upon the basis of the amount of work for which the student is registered. All classes carried out simultaneously in Room 307 Agricultural Engineering Building. The following courses are offered each quarter:

1. AGRICULTURAL DRAWING. The use and care of instruments and orthographic projection. Two credits.
2. AGRICULTURAL DRAWING. Farm structures in orthographic projection. Two credits. Prerequisite, Drawing 1.
3. AGRICULTURAL MAPPING. Maps and topographical drawing of farm problems. Two credits. Prerequisites, Drawing 1 and 2.
4. POULTRY HOUSE DESIGN. Complete working drawings of various types of poultry houses. Two credits. Prerequisites, Drawing 1 and 2.
5. BARN LAYOUT AND DESIGN. Working drawings of various types of barns. Two credits. Prerequisites, Drawing 1 and 2.
6. LANDSCAPE DRAWING. For students of Horticulture. Two credits.
11. ENGINEERING DRAWING. The use and care of instruments, applied geometry and orthographic projection. Three credits.
12. ENGINEERING DRAWING. Pictorial presentation, isometric, oblique and cabinet projections. Three credits. Prerequisite, Drawing 11.
13. ENGINEERING DRAWING. Developing surfaces and intersections. Three credits. Prerequisites, Drawing 11 and 12.
14. HIGHWAY STRUCTURES. Structural problems such as bridges, dams, retaining walls, etc., in orthographic projection. Two credits.
21. DRAWING FOR BUILDERS AND MECHANICS. The use and care of instruments and orthographic projection. Two credits.
22. DRAWING FOR MECHANICS. Drawing of shop exercises in orthographic projection and free hand sketching of machine parts. Two credits. Prerequisite, Drawing 21.
23. DRAWING FOR BUILDERS. Building details such as walls, windows, doors, etc. Two credits. Prerequisite, Drawing 21.
24. MACHINE DRAFTING. Drawing of fastenings such as bolts, screws, etc. Two credits. Prerequisites, Drawing 21 and 22 or 10 and 11.
25. MACHINE DRAFTING. Detail drawings of machine parts. Three credits.
26. MACHINE DRAFTING. Assembly and detail drawings of machine and machine parts. Three credits.
31. MAP AND TOPOGRAPHICAL DRAWING. Surveys, symbols, topographical maps, etc. Three credits.

41. LETTERING AND DESIGNING OF COMMERCIAL AND OTHER FORMS. For students of accounting. Three hours work for one credit.

51. DESCRIPTIVE GEOMETRY. Of practical value to the mechanic and engineer in making and reading working drawings and in solving graphical problems. The point, line, plane and simple solids are studied. Any quarter. Five credits. Hours to be arranged.

52. LINEAR PERSPECTIVE. Shades and Shadows. Of interest to the advanced student of rural architecture and mechanical drawing. Any quarter. Three credits. Hours to be arranged.

53. IRRIGATION DRAFTING. Drafting of irrigation structures including pumping plants, etc., in orthographic projection. Three credits. Any quarter.

54. ARCHITECTURAL DRAWING. The complete working drawings for a small farm house including plans, elevations, specifications, and necessary details. Five credits. Any quarter.

55. ADVANCED TOPOGRAPHICAL DRAWING. Complete topographical maps, contours, lettering, coloring, etc. Three hours for one credit. Any quarter.

### WOODWORK AND HOUSEBUILDING

A. J. HANSEN, *Associate Professor.*

D. A. SWENSON, *Instructor.*

The shops, located in the Mechanic Arts Building, are open daily from 8:00 to 12:00 a. m. and from 2:00 to 5:00 p. m. except Saturdays, when they are open from 8:00 a. m. to 12:00 noon only.

Regular five credit courses run five days a week, three hours a day, during Fall, Winter and Spring quarters. Three hours a week throughout the quarter are required for each credit.

Credit will be allowed according to work for which the student is registered.

All courses in woodwork are open to vocational students.

### JUNIOR COLLEGE COURSES

1. ELEMENTARY WOODWORK. Scarfing, morticing, dovetailing and jointing. Proper handling of tools is emphasized.

2. ELEMENTARY WOODWORK. Panels, sashes, doors, etc., and rafter cutting; also thorough practice in tool sharpening.

3. ELEMENTARY WOODWORK. Feedhoppers, trestles, gates, grindstone frames, beehives, etc., and simple furniture.

These courses may not be used to fill requirements for major.

*Hansen*



4, 5, 6. MACHINE WORK. The use of wood working machinery, building of a modern work bench and tool chest, elementary and advanced wood turning. Prerequisite, Woodwork 3.

*Swenson*

7, 8, 9. HOUSEBUILDING AND CABINET MAKING. Framing and roofing, door frames and window frames, French doors, casing up and finishing. Also furniture in fir and oak, staining, fuming, etc.

*Swenson*

### Farm Shop Course

UNIT C. This course is given to meet the needs of the students in Agriculture, and embraces, rope work, tin work, leather work, cold metal work and farm wood work.

One week will be given to rope work, one week to soldering and tin work, two weeks to leather work, three weeks to cold metal work and four weeks to farm woodwork and tool sharpening.

Two three hour laboratory periods, and one lecture per week. Three credits. Laboratory periods, T. Th. 2:00 to 5:00. Lecture periods to be arranged. Fall term only.

*Egbert and Swenson*

10. FARM WOODWORK. A special course for students in the Winter term. Embraces such problems in woodwork as are commonly met on the farm.

*Hansen*

11. WOOD CARVING. Simple problems in straight and curved lines, simple conventional ornaments and natural foliage. Time and credit to be arranged with the instructor.

*Swenson*

### SENIOR COLLEGE COURSES

101, 102, 103. ADVANCED WOODWORK. Special furniture, floor lamps, table lamps, nut bowls, etc. Mahogany and other fancy woods used. Veneering, inlaying and hand polishing. Prerequisite, Woodwork 9.

*Swenson*

105. PATTERN MAKING. Making of practical patterns for use in the college foundry. Time and credit to be arranged with the instructor.

*Swenson*

106. **ADVANCED SHORT COURSE.** For students who do not fit into the regular schedule. Prerequisite, work equivalent to that listed under Junior College Courses.

*Swenson*

107. **PICTURE FRAMING.** Making of simple mouldings and frames, finishing, mat cutting, mounting and fitting. May be had in connection with the advanced courses in woodwork. Time and credit to be arranged with instructor.

*Swenson*

108. **WOOD FINISHING.** Paints, oils and their manufacture. Water, oil and spirit stains. Varnishes, kinds and preparation. May be taken any quarter if six or more students apply. One lecture a week each quarter. One credit. Time to be arranged with instructor.

*Hansen*

## School of Home Economics

CARRIE CASTLE DOZIER, *Professor.*

JOHANNA MOEN, *Professor.*

ALICE KEWLEY, *Professor.*

CALVIN FLETCHER, *Professor.*

CHARLOTTE DANCY, *Assistant Professor.*

\*CHRISTINE B. CLAYTON, *Assitant Professor.*

HELEN KNOTT, *Instructor.*

HARRIET MORGAN, *Assistant.*

### FOODS AND DIETETICS

All students who elect Foods and Dietetics as their major are required to complete Foods 20, 105 and 140, and are urged to include Household Administration 150. Students wishing to qualify as teachers of Foods and Dietetics must complete Education 120, 121 and 122.

### JUNIOR COLLEGE COURSES

5. **FOOD SELECTION.** A practical study of the relation of food to the needs of the body. Natural food groups and their relation to each other will be treated through principles of menu making

\*On leave of absence.

and the selection of food at public eating places. The relation of food to family life and hospitality by a study of food combinations for special occasions and the duties of host and hostess. Food fads and superstitions. Open to men and women. Not open to Food and Dietetics majors. Winter quarter. Three credits. M. W. F. 9:00.

*Dozier*

20, 21, 22. FOOD ECONOMICS. Production, distribution and composition of foods. Preparation of foods with reference to their chemical and physical properties. Prerequisites, Chemistry 1, 2. Fall, Winter and Spring quarters. Three credits each quarter.

Lec. and Lab. Sec. 1 W. F. 2:00 to 5:00. Room 17 H. E.

Sec. 2. T. Th. 2:00 to 5:00. Room 17 H. E.

*Dozier and Morgan*

### SENIOR COLLEGE COURSES

105, 106, 107. FOOD ENGINEERING. Economic, sanitary and aesthetic principles involved in the purchase, preparation and serving of food. Food preservation and food poisoning. Essentials of well planned and efficient kitchen and dining room; furniture and equipment. Prerequisites, Foods 20 and Bacteriology 1. Fall, Winter and Spring quarters. Three credits each quarter.

Lec. and Lab. M. W. F. 10:00 to 1:00. Room 26 H. E.

*Dozier*

140, 141, 142. DIETETICS. Quantitative basis of human nutrition illustrated by a study of the energy value of foods as determined by direct and indirect calorimetry and nitrogen and mineral balances. Biological analysis of foods illustrated by problems of animal feeding. Calculation and preparation of diets to supply various needs. Prerequisites, Chemistry 21, 22 and Bacteriology 111. Fall, Winter and Spring quarters. Four credits each quarter.

Lec. T. Th. S. 9:00. Room 26 H. E.; Lab. M. 2:00 to 5:00. Room 25 H. E.

*Dozier*

190, 191, 192. SPECIAL STUDY FOR ADVANCED UNDERGRADUATES. Introduction to problems of nutrition through assigned reading and reports of current literature. Fall, Winter and Spring quarters. Two credits each quarter. Two consecutive hours once a week. Time to be arranged. Room 26 H. E.

*Dozier*

### GRADUATE COURSES

210. RESEARCH. Investigation of problems concerned with food preparation and nutrition. Time and credit to be arranged.

*Dozier*

290, 291, 292. SEMINAR. Fall, Winter and Spring quarters. Two credits each quarter. Two consecutive hours once a week. Time to be arranged. Room 26 H. E.

*Dozier*

## HOUSEHOLD ADMINISTRATION

Students who elect Household Administration as their major are required to complete the following courses: Household Administration 25, 122, 123, 125, 150. Students wishing to qualify as teachers of Household Administration must complete Education 120, 121 and 122.

### JUNIOR COLLEGE COURSES

10. PERSONAL ACCOUNTS. Keeping accurate record of expenditures during college year; a critical and comparative study of students' spending habits as shown by the actual accounts kept; consideration of the principles underlying wise buying. Open to all college women. Fall quarter. Two credits.

Th. S. 11:00. Room 12 H. E.

Spring quarter. One credit. Time to be arranged. Open only to those who have completed Fall quarter.

*Kewley*

(Any college student who has received three hours credit for the above course may earn one hour credit by keeping records of one year's expenditures during college life, using for the record the form employed for class use and doing the work under supervision of the instructor in charge of Household Administration 10.)

20. HISTORY OF DOMESTIC ARCHITECTURE. History of the house from primitive times to the present. Spring quarter. Three credits.

Hours to be arranged.

(Not given 1926-27.)

21. HISTORY OF FURNITURE. History of interior decoration and furniture styles. Spring quarter. Three credits.

M. W. F. 10:00. Art Room, Main.

*Fletcher*

25. HOME NURSING AND FIRST AID. Special emphasis on the prevention of disease and on building up the highest degree of health. First aid to injuries, wounds, etc., receives due attention. Lectures, discussions and laboratory demonstrations. Reading of reference works and writing of special reports are required. Prerequisite,

Bacteriology and Physiology. Fall quarter. Repeated Spring quarter. Three credits.

Lec. T. 8:00, Room 12 H. E.; Lab. T. Th. 2:00 to 5:00, Room 11 H. E.

*Dancy*

### SENIOR COLLEGE COURSES

125. MOTHERCRAFT. Vital questions of the adolescent period. Correct and incorrect impressions concerning parental influences and physiological changes during pregnancy. Care of the expectant mother. Care of infants and causes and prevention of infant mortality. Prerequisite, Household Administration 25, 26, Bacteriology and Physiology 4, or Zoology. Winter quarter. Three credits.

Lec. M. W. F. 10:00. Room 12 H. E.

*Dancy*

150. HOUSEHOLD MANAGEMENT. A study of the organization and management of the household and of the ideals fundamental to wholesome family life. Laboratory projects will consist of the application of the underlying principles of household management during the twelve weeks residence in the Home Economics Cottage. A fee of \$6.00 each week will be charged each student while in residence. Open to seniors only. Prerequisites, Foods 105 and Textiles 20. Household Accounts recommended. Two lectures a winter in addition to the laboratory projects in the cottage. Fall, Winter or Spring quarter. Five credits each quarter.

Lec. T. Th. 12:00. Fall quarter only. Room 26 H. E.

*Kewley*

For closely related courses see:

Accounting 107. (Household Accounts)

*Peterson*

Art 122. (Home planning and Construction)

*Fletcher*

Required for a major in Household Administration.

Art 123. (Interior Decoration)

*Fletcher*

### TEXTILES AND CLOTHING

Students who elect Textiles and Clothing as their major are required to complete the following courses: Textiles and Clothing 10, 20, 30, 105, 115, 125, 160. Students wishing to qualify as teachers of Textiles and Clothing must complete Education 120, 121, 122.

## JUNIOR COLLEGE COURSES

1. CLOTHING FOR THE FAMILY. A short unit course planned to meet the needs of special students. This course includes planning the family wardrobe; construction of garments for different ages; selection of materials and garments from the standpoint of health, beauty and economy. Three credits. Winter quarter.

M. W. F. 2:00 to 5:00. Room 36 H. E.

*Knott*

5. DRESS APPRECIATION. This course aims to furnish any student, whether or not her major interest is in the field of Textiles and Clothing, with a practical knowledge of Textiles and an appreciation of good design in dress. Clothing budgets, clothing and textiles economics, care of clothing and clothing hygiene are also considered. Two credits. Fall quarter.

W. F. 11:00. Room 36 H. E.

*Knott*

10, 11. ELEMENTARY CLOTHING AND HANDWORK. This course includes the fundamental principles of budgeting, drafting, design and pattern making; selection and construction of underclothing, dresses, and household furnishings. Lectures and laboratory work. Prerequisites or parallel, Art 1, 2, 3. Three credits each quarter.

Sec. 1. Fall and Winter quarters. Lec. T. 11:00. Lab. M. W. 2:00 to 5:00. Room 33 H. E.

*Knott*

Sec. 2. Fall and Winter quarters. Lec. M. 11:00. Lab. T. Th. 2:00 to 5:00. Room 36 H. E.

*Knott*

Sec. 3. Winter and Spring quarters. Lec. F. 11:00. Lab. T. Th. 10:00 to 1:00. Room 36 H. E.

*Knott*

20, 21. ECONOMICS OF TEXTILES. A study of standard materials used for clothing and house furnishings. These materials are considered from the standpoint of design, structure, fiber content and such physical tests as will determine quality and relative value. The fibers, their production, properties and past and present method of manufacture are studied as a basis for intelligent purchase and use of materials. Prerequisites, Textiles 10. Prerequisites or parallel, Economics 1, 2, 3. Fall and Winter quarters. Three credits each quarter.

M. W. F. 9:00. Room 33 H. E.

*Moen*



30. **MILLINERY.** Designing and drafting patterns for hats; construction of frames from buckram, rice net and wire; various methods of covering foundations. Prerequisites or parallel, Art 1, 2, 3. Textiles 10, 11, 12 or their equivalents. Three credits. Room 36 H. E.

Sec. 1. Fall quarter. M. W. F. 2:00 to 5:00.

Sec. 2. Spring quarter. M. W. F. 2:00 to 5:00.

*Knott*

40. **DRESS DECORATION.** This course includes principles of design in relation to decoration of dress and household linens. Various means will be used in developing simple decorations for all types of garments, table linens and household furnishings. Outside work required. Prerequisites, Art. 1, 2, 3, and Textiles 10 and 11. Spring quarter. Three credits.

M. W. 2:00 to 5:00. Room 33 H. E.

*Moen*

### SENIOR COLLEGE COURSES

105. **HISTORY OF COSTUME.** A study of Egyptian, Grecian, Roman, early and modern French costumes. Fall quarter. Three credits.

T. Th. S. 10:00. Room 330 Main.

*Fletcher*

115. **COSTUME DESIGN.** Design in costume, rythm of line, harmony of color. Sketching gowns and hats; study of styles suitable to various types. Winter quarter. Three credits.

T. Th. S. 10:00. Room 330 Main.

*Fletcher*

125. **APPLIED COSTUME DESIGN.** Practical training in the use and adaptation to different individuals and purposes of the designs made in Textiles 115, as well as designs taken from current fashion magazines.

Designing is done by modeling on the dress form to give practice in actual constructive design. Spring quarter. Three credits.

M. W. F. 2:00 to 5:00. Room 33 H. E.

*Moen*

160, 161, 162. **ADVANCED PROBLEMS IN CLOTHING.** Special application of principles of design and construction to tailored garments, afternoon and evening dresses, infants and children's clothing including budgets. Demonstrations and laboratory work. Prerequisites, Textiles 10, 11, 20, 105, 115, 125. Fall, Winter and Spring quarters. Two credits each quarter.

T. Th. 2:00 to 5:00. Room 33 H. E.

*Moen*

For closely related course see:

**CHEMISTRY 109.** (Chemistry of Textiles.) Students who elect Textiles and Clothing as their major are urged to take this course.

# Thirty-third Annual Commencement

List of Graduates 1925-26

## Graduate Division

Graduates with the Degree of  
MASTER OF ARTS

### Agriculture

FOUNDER, JOHN F.

Thesis: An Investigation Into the Causes of the Increased Yields  
of Sugar-Beets Due to the Addition of Barnyard Manure  
to the Soil

MIDGLEY, ALVIN R.

Thesis: The Effect of Alternate Freezing and Thawing on  
Impermeable Alfalfa and Dodder Seeds

POULTNEY, ROBERT

Thesis: A Study of Cow Testing Associations, Their Place in the  
Development of Utah Dairying and Some Lessons to be  
Learned from the Work of the Associations in  
Cache Valley

REED, JOSEPH

Thesis: Correlation of Length of Head and Length of Straw in  
Wheat

STARR, A. L.

Thesis: The Effect of H<sup>+</sup> ion Concentration on Solution on the  
Hard Seed Coat of Alfalfa  
(Medicago Sativa)

### Basic Arts and Science

FARNSWORTH, B. K.

Thesis: Inquiry Into Amount and Quality of Readings of Adults

JONES, A. E.

Thesis: A Study of the Results of Seminary Teaching Upon the  
Activities of Students Who Attend

Commerce and Business Administration

CHRISTENSEN, JOSEPH S.

Thesis: The Control of Purchases, Materials, and Equipment by Municipal Corporations in the State of Utah

FROST, JAMES ANTHONY

Thesis: Problems in Marketing Eggs by the Utah Producers Poultry Co-operative Association

GARDNER, GEORGE

Thesis: Evaluation of Dairy Cows

**Undergraduate Division**

Graduates with the Degree of  
BACHELOR OF SCIENCE

Agriculture

Allred, B. W.  
Barrus, W. Marion  
Biggs, Ernest  
Bischoff, R. Kenneth  
Blood, H. Loran  
(Graduating with honors in Botany)  
Boyce, Paul C.  
Clark, LeGrand  
Frederick, Harold H.  
Hall, H. Vernon  
Hansen, Myron Tanner  
Hyer, Ralph J.

Khajavi, Fathollah Khan Nouri  
Larson, Lars Harvey  
Merrill, Ariel C.  
Murdock, Douglas Todd  
Murray, Seymour Bailey  
Smith, David Clyde  
Spencer, George Q.  
Thalman, Ray R.  
Wagstaff, Arthur J.  
Warner, William H.  
(Graduating with honors in Poultry Husbandry)  
Woodruff, Angus Q.

Agricultural Engineering

Christensen, Morley  
Hirst, Charles Merlin  
Judah, Courtney Thomas

Miles, O. Donald  
Monson, Olof Wilford  
Overstreet, Cecil Clio

Mechanic Arts

Bowles, Carl J.

Jeppsen, Ernest C.

Gundersen, Howard B.

## Basic Arts and Science

Baker, Alvin H.	Linford, Hooper
Barton, Sherman S.	McNiel, Janetta Valois
Beecher, Paul Edwin	Maughan, Ruth
Beecher, Searl William	May, R. Golden
Bohman, Frieda	Nielsen, George Anthony
Browning, Mary	Nielsen, Lillie Viona
Card, W. LaVoir	Norton, E. Virgil
Cardon, Sybil	Owen, Lucille Benson
Christensen, Norman L.	Price, Maude
Christenson, Reed O.	Pugh, Delsa
Clayton, Alida	Redden, Richard Edmond
Croft, Lenore	Richards, Lorenzo A.
Fifield, Allen	(Graduating with honors in Physics)
Gowans, Max L.	Riter, J. Randolph
Grimmett, Archibald	(Graduating with honors in Geology)
Hale, Sumner E.	Roundy, Mrs. Elizabeth Pugh
Hansen, Alton S.	Simpson, Charles O.
Harris, Ione	Spencer, Pearl
Hess, Russell Lee	Stirland, Byron J.
Hoskins, William Henry	Taylor, Appollos B.
Johnson, Rolla Virgil	Thornley, Wilson R.
Kenner, Cecil B.	Thurber, Marba
Kunz, Lucile	Tolman, Nathan
Larsen, Lucille	Watkins, Norma
Law, Francis Joseph	
Lemon, Cleon	
Lindsay, Della	

## Commerce and Business Administration

Anderson, Silas W.	Ledingham, Clarence Byron
Burgoyne, Mrs. Allie Petersen	Lunt, Anthon H.
Clarke, Doral	Maughan, Preston Baxter
Davis, Roland W.	McCulloch, Lawrence
Fuhriman, David H.	Meyrick, Joseph
Gimlin, Jr., John Frank	Morrell, Marriner D.
Goodsell, Charles Dean	Nelson, Sterling G.
Greenhalgh, Alma	Parkinson, Don B.
Harward, Bert O.	Pedersen, Edna Naomi
Hull, Irvin	Robinson, Kenneth C.
Jensen, Ruel L.	Thatcher, Lionel W.
Karren, L. LeRoy	Webb, Milton

Home Economics

Adams, Harriet Marie  
 Anderson, Beatrice M.  
 Badger, Barbara  
 Barrows, Effie S.  
 Brown, Dorothy G.  
 Christensen, Leatha  
 Froyd, Elna  
 Humphrey, Lucille  
 King, Emma Jean

Lowe, Ora Mae  
 Merrill, Hattie  
 Morgan, Harriet  
 Nielsen, Elsin Gertrude  
 Peterson, Thelma  
 Pond, Gayle  
 Shepard, Mrs. Idalah M.  
 Smith, Editha  
 Sorenson, Ada Geneva

**Officers Reserve Corps of the Army  
 of the United States**

Second Lieutenant, Coast Artillery Corps

Christensen, Norman L.  
 Farrar, Ralph  
 Harward, Bert O.

Harris, Ervin C.  
 Norton, E. Virgil  
 Smith, David Clyde

**Honors, 1925-1926**

**SCHOLARSHIP:** The following students have been selected as deserving special distinction for high achievement in scholarship. They have, accordingly, received either Scholarship A's or Honorable Mention.

**SCHOLARSHIP A's**

Stirland, Byron  
 Hull, Irvin  
 Shepard, Idalah  
 Grimmett, A. T.

Blood, Loran  
 Kotter, Lillian  
 Price, Willard

**HONORABLE MENTION**

Barrows, Perce  
 Richards, Lorenzo

Riter, Randolph  
 Thornley, Wilson

**DEBATING AND ORATORY****Inter-Collegiate Debating**

Stanley Christensen	Louise Shepard
Geo. Spencer	Lenore Croft
Cecile Kenner	Ellen Sampson
Vernon Monson	Norman Christensen
Clinton Vernon	Leland Skanchy
Reo Ellsworth	Norma Hansen
Rodney Pickett	Lucile Owen
David Fuhriman	Gwyn Rouche

The Hendricks Medal Won by:

Roy West

The Sons of the American Revolution Medal Won by:

Cecile Kenner

**SCHOLARSHIPS**

The following students were awarded the Johansen Scholarships for 1926-27:

Arla B. McKinnon      C. Lester Pocock      J. Melvin Denison

**STUDENT OFFICERS**

Student Body Officers:

Roland W. Davis	.....	President
Editha Smith	.....	Vice-President
Leah Mouritsen	.....	Secretary
Bert O. Harward	.....	Managing Editor, "Student Life"
Harold Peterson	.....	Associate Editor, "Student Life"
Alton Hansen	.....	Associate Editor, "Student Life"
Stanley Christensen	.....	Business Manager, "Student Life"
Daken Broadhead	.....	Assistant Business Manager, "Student Life"
Virgil Norton	.....	Editor-in-Chief, "The Buzzer"
Rex Ostler	.....	Business Manager, "The Buzzer"

**SPECIAL AWARDS**

The Citizenship Award, a medal given for distinguished College Citizenship, was awarded to Anthon H. Lunt.

The Lois Hayball Medal, given to the best student in home economics, was awarded to Harriet Adams.

The Reserve Officers' Training Corps Medal, given to the member of the R. O. T. C. who best represents the ideals of the Corps, was awarded to Virgil Norton.

The William Peterson Science Medal, given to the author of the best paper on some selected scientific subject, was won by Harriet Morgan.

The Vernon Medal, given to the writer of the best short story written around a western setting, was won by Margot Spande.



## List of Students 1925-1926

In the following list "a" stands for agriculture; "aema" for agricultural engineering and mechanic arts; "bas" for basic arts and science; "ho" for home economics; "c" for commerce; "ss" for summer school; "G" for Graduate; "S" for Senior; "J" for Junior; "So" for Sophomore; "F" for Freshman; "V" for Vocational; "Fed" for Federal; "Un" for unclassified.

Abbott, James bas-F	Paradise	Anderson, Olive ho-ss	Ephraim
Abersold, John N. bas-J	Providence	Anderson, Owen B. aema-ss	Pleasant Grove
Abplanalp, Wm. c-ss	Ogden	Anderson, Reed a-F	Logan
Adams, Armenia ho-ss	Logan	Anderson, Silas c-S	Richmond
Adams, Clare ho-ss	Logan	Anderson, Sterling c-So	Grantsville
Adams, Eva J. bas-ss	Garland	Anderson, Sylvan E. bas-So	Hyrum
Adams, Harriet ho-ss	Logan	Anderson, Woodruff a-G-ss	Logan
Adams, H. P. bas-G-ss	Hyrum	Andrews, J. J. bas-G-ss	Logan
Adams, Luella N. bas-ss	Salt Lake City	Andrews, M. Elva bas-ss	Logan
Adams, Mamie bas-So	Tremonton	Angus, Bell bas-ss	Roosevelt
Adams, Verena c-J	Logan	Angus, Lois bas-ss	Roosevelt
Adams, Zealanda bas-ss	Oakley, Idaho	Arbon, Eva bas-ss	Ogden
Adamson, Bonne ho-So	Richmond	Argyle, Afton bas-ss	Salt Lake City
Aebischer, Albert aema-V	Logan	Arnold, Gomer bas-J	Huntington
Aebischer, Joseph K. aema-V	Logan	Ashcroft, Eunice bas-ss	Hyde Park
Aebischer, Matilda ho-F	Logan	Ashcroft, Theron c-So	Hyde Park
Aegerter, Gertrude c-F	Montpelier, Idaho	Ault, Helen c-F	Logan
Affleck, Doyle aema-J	Logan	Austin, Bessie bas-J	Idaho Falls, Idaho
Agren, R. Ellen bas-G-ss	Ogden	Austin, L. J. aema-ss-G	St. Anthony, Idaho
Agren, Ruth bas-ss	Ogden	Aupperle, Winnifred bas-ss	Idaho Falls, Idaho
Ahrens, C. W. bas-V	Mendon	Baders, Mildred bas-ss	Loma, Colo.
Albretson, Jule aema-V	Hyrum	Badger, Barbra ho-S	Salt Lake City
Alderson, P. H. bas-ss	Des Moines, Iowa	Bagley, W. Lester bas-ss	Afton, Wyo.
Allen, F. L. bas-ss	Smithfield	Bahen, Alice ho-J	Paradise
Allen, Leone R. bas-ss	Benson	Bailey, Edwin A. a-J	Nephi
Allen, Lloyd c-So	Logan	Bailey, Evelyn bas-So	Nephi
Allred, B. W. a-S	Moab	Bailey, Helen bas-F	Nephi
Allred, Edgar M. c-ss	Ogden	Bailey, Ivan aema-F	Nephi
Allred, Ellen S. bas-ss	Logan	Bailey, Lee a-F	Nephi
Allred, R. L. bas-So	American Falls, Idaho	Bailey, Reed W. a-G-ss	Logan
Allred, Theras O.	Logan	Bailey, Wm. H. bas-S	Manti
Almond, James bas-F	Logan	Baker, Alvin H. bas-S-ss	Beaver
Almond, Oscar aema-V	Downey, Idaho	Baker, Margaret bas-So-ss	Logan
Anderson, Algot E. aema-F	Sandy	Baker, Saressa H. bas-V	Beaver
Anderson, Alice bas-F	Pocatello, Idaho	Baker, Sophia bas-ss	Logan
Anderson, Anita bas-ss	Hyrum	Ballam, Phyllis bas-F	Logan
Anderson, Ann bas-V	Logan	Ballantyne, A. B. bas-G-ss	Tucson, Ariz.
Anderson, Ariel bas-F	Hyrum	Ballard, Reid H. bas-So	Cache Junction
Anderson, Beatrice ho-S	Sandy	Bankhead, Ariel J. c-F	Logan
Anderson, Byron a-So	Marysville	Bankhead, Melvin J. bas-So	Logan
Anderson, Charles bas-ss	Bloomington, Calif.	Barber, Ellen bas-G-ss	Logan
Anderson, C. H. bas-G-ss	Richmond	Barber, Frances bas-ss	Logan
Anderson, Cora E. G-ss	Chicago, Ill.	Barfuss, Roy aema-V	Logan
Anderson, Deslie bas-ss	Toquerville	Barnard, Horace a-F	Deweyville
Anderson, Edna F. bas-V	Logan	Barnard, Vearl aema-V	Deweyville
Anderson, Estelle c-So	Ogden	Barnes, Rulon bas-F	Kaysville
Anderson, Hans P. c-G-ss	Hyrum	Barney, Malinda ho-So	Ourray
Anderson, Helen Dorothy c-F	Ogden	Barrett, Conrad bas-F	Logan
Anderson, J. Orrin bas-ss	Ephraim	Barrett, Lawrence a-F	Ogden
Anderson, Jessie bas-So	Logan	Barron, Geo. L. a-G-ss	Springville
Anderson, Leota ho-ss	Ephraim	Barrows, Effie S. ho-S-ss	Logan
Anderson, Loyal bas-F	Hyrum	Barrows, Perce bas-So	Logan
Anderson, Marie bas-So	Logan	Barrus, Marion a-J-ss	Logan

Barrus, Rodney c-ss	Logan	Bischoff, R. Kenneth a-ss	Logan
Barson, Harold aema-V	Clarkston	Bischoff, Pearl bas-ss	Lovell, Wyoming
Bartlett, Herbert bas-So	Logan	Bishop, Le Roy c-ss	Garland
Barton, George bas-ss	Epphraim	Bjorkman, C. P. aema-So	Heber
Barton, S. S. bas-ss	Greenville	Blake, Agnes R. bas-So	Whiterocks
Bartschi, Vernon bas-F	Providence	Blanchard, Raymond J. aema-J	Logan
Bateman, Marlon S. bas-F	Sandy	Blekink, G. H. aema-ss	Sioux City, Iowa
Bates, Geo. S. bas-G-ss	Logan	Blood, H. Loran a-S-ss	Logan
Bates, A. Parley aema-ss	Wanship	Blood, Nora bas-F	Kaysville
Batkin, Gertrude c-V	Logan	Blood, Seth c-So	Kaysville
Batt, William B. bas-G-ss	Logan	Boden, Elva bas-ss	Logan
Battin, Edna C. bas-ss	Colton, Calif.	Bohman, Frieda bas-S	Peterson
Batty, Ruth bas-So	Brigham City	Bollscheiwer, Allen F. c-J	Smithfield
Baugh, Jr., Wm. aema-F	Benson	Bollscheiwer, Earl W. aema-V	Smithfield
Baughman, Geo. W. bas-ss	Kansas City, Mo.	Booth, Wayne C. a-G-ss	American Fork
Baxter, Golden bas-J	Hyrum	Boothe, Virginia A. ho-F	Garden City
Bayles, Emma J. ho-G-ss	Provo	Borklund, Karl J. bas-ss	Ogden
Beagle, Harry a-ss	Nephi	Boswell, S. R. bas-G-ss	Richfield
Beagle, Lewis bas-F	Nephi	Bott, S. W. c-V	Logan
Beal, Ray c-So	Richfield	Bott, Victor J. bas-ss	Brigham City
Beam, Harold F. aema-V	Irwin, Idaho	Boudrero, Blanche bas-F	Logan
Bearnson, Julius B. c-G-ss	Salt Lake City	Bowen, Edith bas-ss	Logan
Bearnson, Margaret S. bas-ss	Salt Lake City	Bowen, Minnie N. ho-ss	Ridgwood, N. J.
Bearnson, W. L. c-J	Hiaawatha	Bowles, Carl J. aema-S	Nephi
Beaumont, Ellen bas-J	Beaver	Bowles, Garnett c-F	Lewiston
Beauregard, Myrtle N. bas-ss	Logan	Bowles, Lettie c-V	Lewiston
Beck, Alvin aema-V	Logan	Boyce, Paul C. a-S	Murray
Beck, Anne E. bas-F	Newton	Boyd, Ruby bas-ss	Manti
Beck, Ella bas-V	Logan	Boyle, Lewis F. a-G-ss	Murray
Beckstead, Ferrell N. a-So	Logan	Bracken, Aaron F. a-G-ss	Nephi
Beecraft, R. J. a-G-ss	Logan	Brackett, A. Catherine bas-ss	Mora, Minn.
Bedke, Jesse c-So	Logan	Bradshaw, Thomas c-F	Wellsville
Beecher, Artel S. ho-S	Logan	Breech, Mary E. bas-ss	Salt Lake City
Beecher, Paul E. bas-S-ss	Logan	Brenchley, Louis bas-So	Wellsville
Beecher, S. W. bas-ss	Brigham	Brennwasser, Miriam bas-G-ss	Chicago, Ill.
Bell, George H. aema-V	Logan	Brewer, Marjorie bas-ss	Ogden
Bell, Ruth bas-F	Logan	Brewer, Reason, A. aema-S	Logan
Belliston, Deon c-F	Nephi	Brinkerhoff, Price bas-ss	Phoenix, Ariz.
Belnap, Henry bas-ss	Almo, Idaho	Broadhead, Daken K. a-So	Nephi
Bemy, Berta c-V	Logan	Broadhead, Naomi ho-So	Nephi
Bennett, Kathryn bas-J	Logan	Brockbank, Hazel bas-ss	Spanish Fork
Bennett, Mary ho-So-ss	Salt Lake City	Brody, Gene bas-So-ss	Ogden
Bennett, G. Spencer c-So	Logan	Brown, Almada Perry ho-G-ss	Brigham City
Bennion, Ella bas-F	Logan	Brown, Dora bas-ss	Monroe
Bennion, Elma bas-G-ss	Logan	Brown, Dorothy G. ho-S	Salt Lake City
Bennion, Erma bas-G-ss	Logan	Brown, Harold J. bas-ss	Logan
Bennion, Hugh a-So	Farmington	Brown, James B. bas-ss-Fed	Ogden
Bennion, Lyman bas-So	Logan	Brown, Lyle H. aema-F	Hoytsville
Bennion, Noel c-So	Logan	Brown, Mary Wattis bas-ss	Ogden
Benson, Connie ho-So	Logan	Brown, Parley aema-F	Hoytsville
Benson, John bas-So	Fielding	Browning, Claramay ho-ss	Ogden
Benson, Wesley T. c-F	Logan	Browning, Glenn W. bas-ss	Antelope, Idaho
Bentley, Gertrude bas-ss	Trenton	Browning, Mary bas-S	Ogden
Benton, Edward aema-F	Logan	Bruce, Irene bas-G-ss	Mt. Pleasant
Berrett, Golden bas-ss	Murray	Buckner, Robert Henri bas-ss	Portsmouth, Va.
Beus, Rulon bas-So-ss	Hooper	Budge, Rush C. bas-J	Logan
Biekmore, LeRoy c-S	Logan	Buist, Annie bas-ss	Mendon
Biekmore, W. Kenneth bas-ss	Brigham	Bullen, Reed c-F	Logan
Biekmore, Wallace bas-ss	Paradise	Burgess, Erma ho-V	Logan
Biggs, Ernest a-S	Franklin, Idaho	Burgoynne, Allie Petersen c-S	Logan
Bigler, Clarence c-F	Collinston	Burgoynne, Alma a-So	Logan
Bigler, Horace J. c-G-ss	Riverside	Burgoynne, David A. c-G-ss	Logan
Billings, May ho-ss	Salt Lake City	Burgoynne, Ivan E. aema-F-ss	Logan
Bindrup, Joseph D. c-F	Logan	Burgoynne, Lucille bas-ss	Logan
Bindrup, Mada bas-F	Logan	Burke, Melvin a-So	Honeyville
Bingham, Golden H. a-So	Morgan	Burkland, Mamie E. bas-ss	Verona, Neb.
Bird, Howard aema-V-ss	Murray	Burnett, Elmer J. c-J	Ogden

Burnham, Clarence a-F .....Brigham City  
 Burnham, Janet bas-ss .....Logan  
 Burns, A. Ethelyn bas-So .....Logan  
 Burton, Chas. bas-So .....Irwin, Idaho  
 Burton, Margaret ho-ss .....Salt Lake City  
 Burrill, Alfred C. a-G-ss .....Jefferson City Mo.  
 Buttars, Ruben aema-V .....Clarkston  
 Caine, George B. a-G-ss .....Logan  
 Caine, John T. bas-ss .....Logan  
 Calderwood, Blanche bas-F .....Logan  
 Caldwell, Margaret bas-G-ss .....Salt Lake City  
 Call, Vosco P. bas-F .....Brigham City  
 Campbell, Alma R. aema-V .....Logan  
 Campbell, Ila Fife ho-G-ss .....Logan  
 Campbell, Leo bas-G-ss .....Moab  
 Campbell, Marion L. bas-ss .....Providence  
 Cannell, Hannah c-F .....Smithfield  
 Cannon, Allen bas-So .....Fielding  
 Cannon, Richard c-V .....Salt Lake City  
 Capner, Merrill a-V .....Salt Lake City  
 Capper, Martha bas-G-ss .....Monticello, Indiana  
 Card, La Voir Wm. bas-S-ss .....Logan  
 Cardon, Ezra B. a-So .....Logan  
 Cardon, Sybil bas-S-ss .....Logan  
 Carling, Lora bas-ss .....Fillmore  
 Carling, Noma bas-ss .....Fillmore  
 Carlisle, Clarence G. bas-F .....Logan  
 Carlisle, Katherine C. bas-G-ss .....Logan  
 Carlisle, Verna Spencer bas-So .....Logan  
 Carlson, Alvin c-F .....Logan  
 Carlson, Helen bas-So .....Logan  
 Carlson, John W. a-G .....Fort Duchesne  
 Carlson, Veda bas-ss .....Logan  
 Carmichael, Maude bas-G-ss .....Conway, Ark.  
 Carter, Ezra Grover bas-G-ss .....Logan  
 Carver, V. R. bas-V .....Wellsville  
 Case, Helena Butterfield ho-ss .....Ogden  
 Castle, Winifred ho-So-ss .....Logan  
 Cates, Eldon M. a-J .....Milford  
 Caughey, Frank L. bas-ss .....Ukiah, Calif.  
 Chambers, Seth bas-F .....Smithfield  
 Chandler, Mae bas-F .....Millville  
 Chapman, Violet V. bas-ss .....Wellsville  
 Chappell, Ernest aema-F .....Coalville  
 Chase, Peggy bas-ss .....Logan  
 Checketts, Geneva bas-ss .....Ogden  
 Chestnut, Helen bas-F .....Logan  
 Child, Marcus c-So .....Ogden  
 Christensen, Chester bas-So .....Brigham City  
 Christensen, Dean aema-F .....Brigham City  
 Christensen, Edna A. ho-ss .....Tremonton  
 Christensen, Frank bas-J .....Logan  
 Christensen, Ivan bas-ss .....Ephraim  
 Christensen, J. S. c-G-ss .....Ephraim  
 Christensen, Leatha ho-ss-J .....Shelley, Idaho  
 Christensen, L. Dean bas-J .....Wellsville  
 Christensen, Morley aema-J .....Brigham City  
 Christensen, Norman L. bas-S-ss .....Logan  
 Christensen, Reed O. bas-G-ss .....Wellsville  
 Christensen, R. Gordon aema-F .....Elsinore  
 Christensen, Rhea Dean ho-So .....Salt Lake City  
 Christensen, Roma c-F .....Brigham City  
 Christensen, Rulon c-J .....Hyde Park  
 Christensen, Stanley bas-J .....Newton  
 Christensen, Victoria B. bas-ss .....Logan  
 Christiansen, A. L. a-G-ss .....Tooele  
 Christiansen, Jerald aema-J .....Downey, Idaho

Christiansen, Ellis aema-F .....Downey, Idaho  
 Christiansen, Feron aema-V .....Brigham City  
 Christiansen, Nancy bas-F-ss .....Newton  
 Christiansen, Reed aema-V .....Mayfield  
 Christiansen, Ray C. a-So .....Downey, Idaho  
 Christopherson, Lawrence C. bas-ss .....Gariand  
 Chruh, Kathryn a-G-ss .....Panguitch  
 Chruh, Rudolph a-G-ss .....Panguitch  
 Clark, Carlos W. a-F .....Morgan  
 Clark, Cyrus Lowell bas-So .....Brigham City  
 Clark, Edward J. bas-ss .....Brigham City  
 Clark, Ernest bas-ss .....Afton, Wyoming  
 Clark, Esther bas-ss .....Brigham City  
 Clark, Heber D. C. bas-G-ss .....Sanford, Colo.  
 Clark, Le Grand a-S .....Coalville  
 Clark, Lilly Card bas-ss .....Sanford, Colo.  
 Clark, Myral G. bas-J .....Logan  
 Clark, Parley G. a-J .....Logan  
 Clark, Ray bas-ss .....Coalville  
 Clark, Reuben aema-F .....Coalville  
 Clark, Susan bas-So .....Farmington  
 Clark, Wilda bas-ss .....Logan  
 Clark, Wilford bas-So .....Coalville  
 Clark, William L. aema-F .....Eureka  
 Clarke, Doral c-S .....Newton  
 Clarke, Floyd bas-So .....Newton  
 Claypool, Lavon c-So .....Smithfield  
 Clayton, Alida bas-S-ss .....Salt Lake City  
 Clayton, Christine B. ho-G-ss .....Logan  
 Clayton, Donald C. a-F .....Provo  
 Clayton, Loretta bas-J-ss .....Logan  
 Clegg, Martello a-F .....Heber  
 Clegg, Reed K. bas-F .....Heber  
 Clinger, Albert W. c-G-ss .....Lorenzo, Idaho  
 Clitheroe, Lena bas-ss .....Mt. Pleasant  
 Coffman, Josephine T. ho-G-ss .....Ogden  
 Cole, Amos Glenn bas-So .....Nephi  
 Cole, Laurel S. bas-J .....Logan  
 Cole, Mrs. Myrtle L. bas-ss, Treasureton, Idaho  
 Cole, Ray E. aema-V .....Logan  
 Cole, Wilford, a-G .....Nephi  
 Coleman, Mae bas-So .....Heber  
 Coles, Elverne c-J .....Tremonton  
 Collett, Wells F. c-J .....Logan  
 Collier, Theodore R. c-V .....Vernal  
 Comish, Reata ho-G-ss .....Franklin, Idaho  
 Condy, Marion bas-ss .....Rupert, Idaho  
 Connell, L. Ora ho-G-ss .....Los Angeles, Calif.  
 Conroy, Maurice R. bas-G .....Ogden  
 Cook, Delbert a-F .....Brigham City  
 Cook, Raydolph a-F .....Layton  
 Cooley, Edward a-F .....Cisco  
 Cooley, Hazen c-S-ss .....Newton  
 Coombs, Lavaun P. bas-ss .....Lethbridge, Can.  
 Corless, Margaret bas-ss .....Brigham City  
 Cowan, Helen bas-ss .....Nephi  
 Cowan, Rulon bas-F .....Nephi  
 Cowley, May ho-So .....Logan  
 Cox, Byron G. a-So .....Manti  
 Cox, Clare F. bas-G-ss .....Indianapolis, Indiana  
 Cox, Donnetta ho-So .....Manti  
 Cox, Lissa P. a-G-ss .....Indianapolis, Indiana  
 Cragon, Paul B. bas-ss .....Ogden  
 Crane, Anna bas-ss .....Logan  
 Cranney, Helen bas-F .....Logan  
 Cranney, Clara bas-J .....Logan  
 Cranney, Kimball c-G-ss .....Logan

Cranney, Monroe bas-So	Logan
Cranney, Rita bas-So	Logan
Cressall, Jessie bas-F	Logan
Creighton, Kathryn bas-So	Eureka
Criddle, Carl a-F	Layton
Critchfield, Winnie ho-So	Logan
Crittenden, Ruth bas-So	Hoytsville
Crockett, Virginia c-F	Logan
Croft, George A. bas-G-ss	Cedar City
Croft, Jack bas-G-ss	Ogden
Croft, Lenore bas-S	Ogden
Crookston, Edna ho-G-ss	Logan
Crookston, Newell J. bas-ss	Logan
Crowther, Jesse aema-V	Logan
Cummings, Jos. D. a-So	Brigham City
Cummings, Leona c-F	Brigham City
Cunningham, Annetta bas-ss	Ogden
Curtis, Ray B. c-G	Logan
Cutler, Douglass a-F	Salt Lake City
Dancy, C. E. bas-ss	Logan
Daniels, C. P. bas-J	Logan
Daniels, La Vern c-So	Ogden
Daniels, Theo. bas-So	Logan
Danielsen, Marie bas-ss	Lewiston
Darley, Arch E. a-G-ss	Wellsville
Darley, Byron c-So	Logan
Darley, Farrell c-F	Wellsville
Darley, Merrill M. bas-So	Wellsville
Davidson, Clarence aema-V	Logan
Davis C. H. a-G-ss	Provo
Davis, Carma bas-F	Brigham City
Davis, Chester V. aema-ss	Ruth, Nevada
Davis, Florence c-V	Logan
Davis, Gerald E. bas-J	Logan
Davis, Hugh C. bas-ss	Garland
Davis, J. Edward a-F	Garland
Davis, Lloyd N. a-F	Brigham City
Davis, Orpha bas-F	Malad, Idaho
Davis, Parley O. bas-G	Salt Lake City
Davis, Roland W. c-S	Logan
Davis, Zina T. bas-ss	Ogden
Day, Athens bas-ss	Beaver
Day, J. Frank bas-ss	Beaver
Dean, Amelia ho-ss	Beaver
Degn, Waldemar bas-F	Logan
De Graff, Charles bas-ss	Heber
Denison, J. Melvin aema-So-ss	Manti
Detrick, Mrs. Laura c-ss	Logan
Devey, Walter A. a-J	American Fork
Dial, Willis A. aema-ss	Shelley, Idaho
Dixon, Nancy ho-ss	Roanoke, Va.
Domgaard, Gwendolyn bas-F	Glenwood
Doolas, George Z. bas-G-ss	Monticello
Dopp, Gladys ho-F-ss	Logan
Doty, H. S. bas-ss	Indianola, Iowa
Dowdle, De Fonda bas-ss	Newton
Dowdle, Verda bas-F	Newton
Doxey, Clifford B. bas-ss	Ogden
Dozier, Carry C. ho-G-ss	Logan
Duce, Delbert a-F	Hyde Park
Dudley, Thelma ho-So	Logan
Duke, Alma a-So	Logan
Duke, Basil C. bas-So	Logan
Duke, Roe bas-So	Logan
Dunkley, Ann bas-So	Logan
Dunn, Leona bas-ss	Corinne
Dunn, Mary A. bas-ss	Ogden
Durham, Eugene bas-F	Logan
Durham, Marian bas-So	Logan
Durrani, M. S. a-So	Quetta, India
Dutson, G. Merlin bas-ss	Logan
Dwyer, Helen G. bas-G-ss	Chicago, Illinois
Eames, Ilah ho-ss	Preston, Idaho
Earl, Frank J. c-ss	Logan
Earl, Mae bas-F	Logan
Eccles, Ellen bas-F	Logan
Eccles, Mrs. S. S. bas-So	Logan
Eckersell, Ondulyn bas-F	Salt Lake City
Edwards, Leah bas-So	Salt Lake City
Egan, Leonard E. aema-So	Logan
Egbert, S. R. aema-G-ss	Logan
Eliason, Afton Y. aema-So	Logan
Eliason, Hampton B. c-V	Brigham City
Eliason, Lila bas-So	Hyrum
Eliason, Arville L. bas-V	Logan
Ellis, Evan J. bas-F	Vernal
Ellwood, Walter B. bas-G-ss	Columbia Mo.
Ellsworth, Heber c-So	Logan
Ellsworth, Reo c-So	Logan
Emmett, Gladys bas-ss	Lovell, Wyo.
England, Harold W. c-F	Logan
Ensign, Coleman B. c-F	Logan
Ensign, Olive bas-F	Logan
Erickson, Eldon R. bas-ss	Fairview, Wyo.
Erickson, Esther bas-So-ss	Logan
Erickson, Sylvan c-So	Logan
Ericson, Raymond a-F	Rexburg
Esplin, Alma a-G-ss	Logan
Esplin, Lottie K. bas-ss	Logan
Evans, Blythe bas-So	Brigham City
Evans, James E. bas-G-ss	Panguitch
Evans, Peter aema-F	Garland
Everton, Wallace c-F	Logan
Ewing, Matt aema-J	Smithfield
Excell, Hortense ho-ss	Panguitch
Fackrell, Leone bas-ss	Woods Cross
Farnsworth, Burton K. bas-G-ss	Fillmore
Farrar, Ralph William aema-J	Sandy
Fausett, Adelbert a-F	Price
Faylor, Thelma ho-J	Logan
Feldman, Anatole aema-F	Logan
Feldman, Edmund aema-G	Logan
Felt, J. E. bas-ss	Wellsville
Fensky, Maude c-F	Wellsville
Fenton, Robert L. a-G-ss	Parowan
Fife, Belva bas-F	Ogden
Fife, Karl bas-F	Logan
Fife, Lorin bas-So	Logan
Fifield, Albert Earl c-ss	Logan
Fifield, Allen bas-S-ss	Logan
Fillerup, Irva ho-ss	Logan
Fish, Lucretia bas-F	Logan
Fish, Murland W. bas-G-ss	Logan
Fitzamins Ida G. bas-ss	Ogden
Fletcher, Calvin bas-G-ss	Logan
Fogelberg, Neptune c-J	Logan
Fogeberg, Thelma c-ss	Logan
Folsom, Jean C. ho-ss	Salt Lake City
Fonder, John F. a-G	Logan
Fonnesbeck, Carl M. aema-So	Logan
Fonnesbeck, Luna bas-So	Logan
Fonnesbeck, M. Margretha bas-So	Howell
Forrester, Robert A. bas-F	Richmond
Foss, Gwen bas-ss	Preston, Idaho

Fowler, Bert A. bas-G-ss	.....Ogden
Fowler, George E. bas-ss	.....Hooper
Fowler, Isabel c-V	.....Ogden
Foutz, Ada bas-ss	.....Ogden
Foxley, E. G. bas-So	.....Logan
Foxley, Mary bas-ss	.....Logan
Frandsen, Louise bas-F	.....Mt. Pleasant
Frankhouser, Fred c-So	.....Logan
Frazier, Irene B. bas-ss	.....Berkeley, Calif.
Fredricksen, Earl A. bas-ss	.....Avon
Fredrick, Harold H. a-S	.....Logan
Fredrick, Hilda ho-F	.....Logan
Frink, Margery E. bas-G-ss	.....Tiplou, Iowa
Froerer, Arthur aema-F	.....Ogden
Froerer, Mable E. bas-ss	.....Ogden
Frost, Leah bas-ss	.....Kanab
Froyd, Elina ho-S-ss	.....Cedar City
Frye, Clifford c-F	.....Brigham City
Fuhrman, David H. c-S	.....Providence
Furiman, Walter U. bas-G-ss	.....Providence
Funk, Gayla bas-ss	.....Richmond
Furr, Carl J. a-F	.....Mesa, Arizona
Gadd, Alton aema-F	.....Nephi
Gadd, Fred L. aema-F	.....Nephi
Gadd, Gean c-So	.....Nephi
Galbraith, C. Layton c-ss	.....Ogden
Gardner, Mrs. Alice S. bas-F	.....Logan
Gardner, Alma H. aema-V	.....Logan
Gardner, Arling bas-ss	.....Afton, Wyoming
Gardner, David aema-J	.....Sandy
Gardner, George bas-G-ss	.....Logan
Gardner, Robert a-G	.....Logan
Gardner, Willard bas-G-ss	.....Logan
Garrett, Ernest Bowers a-ss	.....Lehi
Garrett, Wanda c-F	.....Nephi
Geary, C. Calvin bas-ss	.....Morgan
Geddes, Faung bas-ss	.....Preston, Idaho
Geddes, Willard c-F	.....Beaver
Geddes, William c-J-ss	.....Logan
Gedde, William aema-V	.....Salt Lake City
George, Arvilla bas-ss	.....Escalante
George, Laura bas-ss	.....Escalante
Gessel, Homer J. bas-F	.....Logan
Gibbons, Robert G. c-So-ss	.....Logan
Gibbs, Don D. bas-G-ss	.....Hailey, Idaho
Gibbs, Lee bas-J	.....Brigham City
Gibby, Thomas G. bas-So	.....Roy
Gibson, B. Dale c-F	.....Nephi
Gibson, Owen N. bas-So	.....Nephi
Gillespie, Edwin L. c-F	.....Tooele
Gillespie, Eric bas-F	.....Tooele
Gills, Edward W. a-J	.....Sandy
Gilman, Florence I. bas-ss	.....Winnemuca, Nev.
Gimlin, Frank c-J	.....Ogden
Glauser, Alfred aema-V	.....Logan
Goodsell, Clarence bas-V	.....Salt Lake City
Goodsell, D. C. c-S	.....Logan
Gordon, Coral bas-J-ss	.....Smithfield
Gould, Muriel M. bas-G-ss	.....Chicago, Ill.
Gould, Roland bas-F	.....Bear River City
Gowans, Max L. bas-S	.....Tooele
Greaves, Ethelyn O. bas-G-ss	.....Logan
Greaves, Florence D. bas-F-ss	.....Logan
Greaves, Joseph Dudley bas-F-ss	.....Logan
Greaves, J. E. bas-G-ss	.....Logan
Green, E. Carl bas-ss	.....Ogden
Green, Emma ho-So	.....Richmond
Green, Harold W. aema-So	.....Logan
Green, Thomas F. c-J	.....Logan
Greene, Julia M. bas-V	.....Logan
Greene, Nathan W. c-So	.....Logan
Greenhalgh, Alma E. c-S	.....Logan
Greenhalgh, J. E. bas-So	.....Nephi
Grell, Esther bas-ss	.....Sacramento, Calif.
Griffin, Amos bas-G-ss	.....Newton
Griffin, Bessie bas-F	.....Logan
Griffin, Chas. c-F	.....Logan
Griffin, Mina bas-So	.....Newton
Griffin, Spencer bas-ss	.....Newton
Grimaud, Oriel aema-V	.....Logan
Grimmett, Archie bas-J	.....Providence
Groesbeck, Abby bas-ss	.....Logan
Groll, Wm. J. aema-V	.....Logan
Grover, Clifton W. bas-F	.....Garland
Grover, Fred M. aema-V	.....Garland
Grow, C. J. bas-ss	.....Huntsville
Gudmundsen, Marian A. bas-G-ss	.....Parowan
Gunderson, Howard aema-S	.....Salt Lake City
Haas, Regina bas-G-ss	.....Chicago, Illinois
Hadley, Mina ho-ss	.....Ogden
Hadlock, Lowella bas-ss	.....Kaysville
Hadlock, Ruth bas-ss	.....Ogden
Hagan, J. Waldo c-F	.....Spanish Fork
Haight, David B. c-So	.....Wellsville
Hale, Lois ho-So	.....Logan
Hale, Rosalind bas-So	.....Logan
Hale, Sumner E. bas-S-ss	.....Logan
Hale, David G. bas-G-ss	.....Byran, Ohio
Hall, H. Vernon a-J-ss	.....Hurricane
Hall, LeGrand bas-F	.....Logan
Hall, Oreta bas-So-ss	.....Logan
Hall, Stanley c-F	.....Ogden
Hall, W. C. bas-J	.....Salt Lake City
Halverson, Leon c-F	.....Logan
Hamilton, Melvin a-J	.....Salt Lake City
Hammond, Diantha bas-ss	.....Providence
Hammond, Weldon bas-F	.....Providence
Hanks, Ellen ho-F	.....Tooele
Hansen, A. J. aema-G-ss	.....Logan
Hansen, Alice M. c-F	.....Mt. Pleasant
Hansen, Ammon N. bas-F	.....Shelley, Idaho
Hansen, Asael T. c-J	.....Collinston
Hansen, Bessie ho-F	.....Logan
Hansen, Chris H. aema-F	.....Shelley, Idaho
Hansen, Clarence D. c-J	.....Logan
Hansen, Deloss c-F	.....Preston, Idaho
Hansen, Enoch L. a-So	.....Shelley, Idaho
Hansen, Erma bas-ss	.....Logan
Hansen, Gladys ho-So	.....Bountiful
Hansen, G. Hammond bas-F	.....Logan
Hansen, Elwood J. bas-F	.....Providence
Hansen, Leah bas-F	.....Logan
Hansen, Lena bas-So	.....Brigham City
Hansen, Margurite ho-F-ss	.....Salt Lake City
Hansen, Myron T. a-S	.....Collinston
Hansen, Norma bas-J	.....Logan
Hansen, Vergil aema-V	.....Logan
Hansen, Warren E. a-V	.....Garland
Hanson, Alton S. bas-S	.....Paradise
Hanson, Virginia bas-ss	.....Cornish
Harding, George D. bas-G-ss	.....Logan
Hardy, Leon D. c-G-ss	.....Logan
Harmon, Frank N. a-G-ss	.....St. George
Harmon, Mrs. Lillie E. ho-ss	.....Orderville



Haroldson, Alice bas-J-ss	Idaho Falls, Idaho	Hillyard, Melvin aema-V	Smithfield
Haroldson, Eva ho-So-ss	Idaho Falls, Idaho	Hinckley, Helen bas-G-ss	Ogden
Harris, Mrs. Alice J. ho-ss	Salt Lake City	Hirst, Alta ho-So	Loggan
Harris, Alvin bas-So	Portage	Hirst, C. Merlin aema-S	Loggan
Harris, Flora E. bas-ss	Des Moines, Iowa	Hirst, C. T. bas-G-ss	Loggan
Harris, Evan bas-J	Richmond	Hirst, Lester bas-G-ss	Loggan
Harris, E. C. c-J	Logan	Hodges, Evelyn bas-F-ss	Loggan
Harris, Frances bas-ss	Smithfield	Hodges, Lamont E. bas-ss	Garden City
Harris, George bas-J	Richmond	Hodges, Lynn J. bas-ss	Fielding
Harris, Ione bas-S	Evanston, Wyo.	Hoffman, Alton a-F	Loggan
Harris, Joseph Ruel bas-J	Logan	Hogan, Fred DeBois c-J-ss	Lewistton
Harris, Jos. Vernal bas-So	Tremonton	Hogenson, J. C. bas-G-ss	Loggan
Harris, Luella ho-J-ss	Tremonton	Hogenson, Melba Doloris bas-ss	Loggan
Harris, M. H. c-G-ss	Logan	Holberg, Julia bas-ss	Macon, Mississippi
Harris, Thelma bas-So	Tremonton	Holdaway, Thelma bas-So	Eureka
Harston, Pauline bas-ss	Logan	Holmes, J. Mark aema-So	Loggan
Hart, Reed bas-F	Preston, Idaho	Holmes, Margaret c-ss	Raymond, Canada
Hartvigsen, Elmer aema-So	Downey, Idaho	Holmes, Vorce J. bas-ss	Pocatello, Idaho
Hartvigsen, Milton aema-F	Downey, Idaho	Homer, David bas-So	Loggan
Harward, Bert O. c-S	Willard	Hooper, Elsie M. bas-ss	Eureka, Nevada
Haskins, Dr. Clark E. bas-G-ss	Logan	Home, Aaron bas-ss	Oakley, Idaho
Haslam, George S. c-F	Logan	Horsley, Philip c-J	Price
Hatch, Adrian c-So	Logan	Horton, Vera bas-F	Beaver
Hatch, Elizabeth bas-ss	Salt Lake City	Horton, Marian Louise ho-F	Ogden
Hatch, Leah bas-ss	Logan	Hoskins, W. H. bas-S	Wellsville
Hatch, Lillian bas-ss	Colonia Juarez, Mex.	Howard, Marcus a-F	Maywood, Illinois
Hatch, Lorenzo H. c-G-ss	Salt Lake City	Howard, Maud bas-ss	Huntington
Hatch, Mabell E. bas-ss	Panguitch	Howard, Owen L. a-F	Bountiful
Hatch, Ray bas-F	Logan	Howe, Earl E. c-So	Murray
Hatch, Sumner a-G-ss	Heber	Hoyt, Emma ho-F	Marion
Hatch, Theron bas-F	Randolph	Hoyt, Wilmer aema-So	Marion
Havertz, Joseph Jr. c-J	Logan	Hughes, Kathryn ho-So-ss	Loggan
Hawkes, Frank c-F	Logan	Hull, Ciella bas-ss	Loggan
Hawkes, F. Pratt bas-ss	Preston, Idaho	Hull, Irvin c-S	Hopoor
Hawkes, Stanton M. a-F	Preston, Idaho	Hull, Wealthy bas-ss	Loggan
Hawkins, Mable bas-V	Logan	Hulme, Helen bas-So	Loggan
Hawks, Della Barlowe bas-V	Logan	Humphreys, Le Grand R. a-G	Loggan
Hawley, I. M. bas-G-ss	Logan	Humphreys, Lucile ho-S-ss	Ephraim
Hawley, Warren aema-So	Richfield	Hunsaker, H. Barnard bas-ss	Honeyville
Hawman, Ida bas-ss	St. Joseph, Mo.	Hunsaker, J. Golden bas-So	Honeyville
Hayball, Edith bas-G-ss	Ogden	Hunt, Mrs. Ester J. bas-J-ss	Loggan
Hayward, Ira N. bas-G-ss	Logan	Hunt, Forrest c-F	American Falls, Idaho
Hayward, William B. c-F	Logan	Hunt, S. R. bas-V-ss	Loggan
Hayward, Willis H. bas-F	Logan	Hunter, Chester a-F	Garland
Heggie, Andrew L. aema-F	Clarkston	Hunter, Genevive, ho-J	Loggan
Henderson, Louise bas-ss	Salt Lake City	Hunter, Glen F. c-So	Loggan
Hendricks, Mrs. Caroline M. c-J-ss	Logan	Hunter, Lee aema-V	Loggan
Hendricks, Nellie Ulene bas-ss	Ogden	Huntington, Lucille bas-ss	Beaver
Hendricks, Russel Hyer bas-J	Richmond	Hurren, Clarence A. bas-G-ss	Hyde Park
Hendricks, S. A. c-So	Richmond	Hurren, David S. c-J	Hyde Park
Henrie, Gerald V. a-F	Panguitch	Hurren, Eulalia ho-F	Hyde Park
Henrie, Irvn L. bas-G-ss	Gunnison	Hutchings, M. P. bas-So-ss	Loggan
Henrie, Leone Call ho-S-ss	Logan	Hutchings, Olive bas-G-ss	Moline, Illinois
Henrie, Vonda bas-ss	Manti	Hutchinson, Thos. E. aema-V	Loggan
Henrie, Wayne c-V-ss	Logan	Hurt, J. Errol c-So	Burley, Idaho
Henroid, Mrs. Agnes bas-ss	Parker, Nevada	Hyde, Joseph W. aema-V	Preston, Idaho
Hess, Alvin bas-So-ss	Fielding	Hyde, Orlo C. bas-ss	Lewistown
Hess, Russell L. bas-S	Logan	Hyde, W. Parry bas-So-ss	Hyde Park
Hesser, Gladys bas-So	Rigby, Idaho	Hyde, R. Homer bas-ss	Hyde Park
Higbee, Alice bas-J	Cedar City	Hyer, Ralph J. a-S-ss-Fed	Lewistown
Higgins, Winfield C. a-ss	Wellington, Nev.	Hymas, Charles A. a-F	Loggan
Hilburn, Edith ho-ss	Weston, Idaho	Hyman, Bernice M. bas-G-ss	Chicago, Illinois
Hill, Belva bas-ss	Bozeman, Montana	Hyman, Ethel bas-G-ss	Chicago, Illinois
Hill, Leland K. aema-So	Wellsville	Israelsen, O. W. bas-G-ss	Loggan
Hill, Reta ho-F	Wellsville	Ivins, Carol bas-F	Lund, Nevada
Hill, R. L. bas-G-ss	Logan	Jackson, Edward B. aema-V	Salt Lake City
Hillstead, William H. bas-ss	Fairview, Wyo.	Jackson, Elgin c-F	Loggan



Jackson, E. P. bas-G-ss	.....Fall River, Mass.	Jones, Lottie bas-F	.....Logan
Jackson, Miriam ho-G-ss	.....Logan	Jones, Mary bas-ss	.....Ogden
Jackson, William J. bas-J	.....Park City	Jones, Ralph C. a-So	.....Newton
Jacobs, Margaret bas-ss	.....Chicago, Illinois	Jones, Sylvester c-S	.....Logan
Jacobs, Nathalie bas-ss	.....Logan	Jones, Winston B. bas-J	.....Tooele
Jacobson, A. E. aema-ss	.....Morgan	Jones, Zelpha bas-ss	.....Randlett
Jacobsen, Ashlaugh bas-ss	.....Weston, Idaho	Jorgensen, Melvin bas-F	.....Logan
Jacques, Myrtle bas-ss	.....Logan	Jorgensen, Osmona O. bas-ss	.....Huntsville
Jadot, Renee bas-F	.....Kemmerer, Wyoming	Jorgensen, Orba bas-ss	.....Huntsville
Jarman, Cornell c-F	.....Kaysville	Judah, Courtney aema-S	.....Logan
Jeffery, Myrtle bas-ss	.....Chico, Calif.	Karren, Le Roy L. c-S-Fed-ss	.....Logan
Jeffs, Armond bas-S	.....Logan	Kearl, Vera Lee bas-ss	.....Laketown
Jenkins, Alice ho-J	.....Logan	Keetch, Rulon bas-So	.....Wellsville
Jenkins, Alton bas-F	.....Newton	Keller, Duane bas-F	.....Logan
Jenkins, Archie L. bas-ss	.....Newton	Keller, Elmo A. a-So	.....Logan
Jenkins, Edith bas-J	.....Logan	Keller, June c-F	.....Logan
Jenkins, Eva P. bas-ss	.....Preston, Idaho	Keller, Wesley a-F	.....Logan
Jenkins, Hyrum bas-ss	.....Eureka	Kelsey, Seth C. bas-ss	.....Montpelier, Idaho
Jenkins, Kurt Lorin c-J	.....Logan	Kemp, Lovell bas-ss	.....Logan
Jennings, D. S. bas-G-ss	.....Logan	Kemp, Lovell bas-ss	.....Logan
Jensen, Alberta bas-J	.....Logan	Kenner, Cecil B. bas-S	.....Manti
Jensen, Earl c-F	.....Logan	Kent, Melvin Lloyd bas-S-ss	.....Logan
Jensen, Grace bas-So	.....Brigham City	Kennedy, Minnie M. bas-G-ss	.....Eagleville Mo.
Jensen, James bas-G-ss	.....Brigham City	Kenner, Robert Lee bas-G-ss	.....Manti
Jensen, John bas-V	.....Mendon	Kerr, Robert M. bas-G-ss	.....St. Anthony, Idaho
Jensen, Joseph R. bas-G-ss	.....Logan	Kewley, Alice ho-G-ss	.....Santa Monica, Calif.
Jensen, Leslie O. a-G-ss	.....Manti	Khajavi, F. N. a-S	.....Persia
Jensen, Lillian bas-ss	.....Mendon	Kidgell, Melba ho-F	.....Logan
Jensen, Mary bas-ss	.....Brigham City	King, Emma ho-S	.....Kamas
Jensen, Minerva bas-ss	.....Centerfield	King, Ralph T. bas-G-ss	.....Logan
Jensen, Peter D. bas-G-ss	.....Ephraim	Kingsford, Kenneth a-J	.....Grace, Idaho
Jensen, Phyllis bas-ss	.....Manti	Kirby, Harold J. bas-J	.....Hyde Park
Jensen, Raymond O. aema-V	.....Hyrum	Kirby, Owen A. a-So	.....Hyde Park
Jensen, Ruel L. c-J	.....Huntington	Kirkbride, J. W. bas-G-ss	.....Smithfield
Jensen, Viola M. bas-ss	.....Huntsville	Kirkham, Francis R. a-So	.....Salt Lake City
Jenson, Dwane a-So	.....Hyrum	Kjar, Florence bas-ss	.....Manti
Jeppsen, Donald bas-J	.....Mantua	Knight, Enos aema-V	.....Ogden
Jeppsen, Ernest C. aema-S	.....Mantua	Knight, Lester aema-V-ss	.....Driggs, Idaho
Jeppsen, R. B. bas-G-ss	.....Logan	Knight, Roma bas-J	.....Plain City
Jeppsen, Vera bas-ss	.....Brigham City	Knott, Helen ho-G	.....Ruston, Louisiana
Jessop, Beatrice bas-ss	.....Logan	Kotter, Lillian bas-So	.....Brigham City
Jex, Elva bas-ss	.....Salt Lake City	Kunz, Lucile bas-ss	.....Logan
Johnson, A. Evert bas-ss	.....Mesa, Arizona	Kunz, Thelma bas-ss	.....Logan
Johnson, A. G. bas-ss	.....Panguitch	Lacy, Jess bas-ss	.....Leonard, Texas
Johnson, Bryan aema-V	.....Logan	Lamb, Delbert M. c-J	.....Hyde Park
Johnson, Clover bas-G-ss	.....Logan	Lambert, Myrtle J. bas-G-ss	.....Roosevelt
Johnson, Edythe ho-J	.....Logan	Lamm, Marjorie M. bas-F	.....Logan
Johnson, Eva bas-F	.....Logan	Larsen, Angela bas-ss	.....Logan
Johnson, Keith aema-So	.....Pleasant Grove	Larsen, Arta ho-F	.....Newton
Johnson, Le Roy aema-F	.....Logan	Larsen, Grant aema-F	.....Newton
Johnson, Lucile ho-So	.....Logan	Larsen, Lars Harvey a-S-ss	.....Logan
Johnson, Lund c-So	.....Logan	Larsen, Lavon I. bas-F	.....Hyrum
Johnson, Melba bas-ss	.....Collinston	Larsen, Lucille bas-S-ss	.....Logan
Johnson, Moneta G. bas-G-ss	.....Moline, Ill.	Larsen, Mainard aema-So	.....Smithfield
Johnson, Oswald aema-So	.....Pleasant Grove	Larsen, Mathilda M. ho-V-ss	.....Logan
Johnson, C. Reed bas-So	.....Logan	Larsen, Mina bas-ss	.....Elwood
Johnson, V. Merrill bas-So-ss	.....Richmond	Larsen, Nellie bas-ss	.....Garland
Johnson, Rolla V. bas-ss	.....Logan	Larsen, Arvid J. bas-F	.....Sandy
Johnson, Susie bas-ss	.....Panguitch	Larsen, Connie ho-J	.....Smithfield
Johnson, Vivian ho-J	.....Preston, Idaho	Larsen, Elsie bas-ss	.....Corinne
Johnston, Lloyd D. c-F	.....Salt Lake City	Larsen, George a-F	.....Mayfield
Jones, Aaron E. bas-G-ss	.....Logan	Larsen, Harold aema-F	.....Logan
Jones, Clifford a-So	.....Monroe	Larsen, June bas-F	.....Logan
Jones, Daniel O. c-So	.....Logan	Larsen, John W. Jr. bas-J	.....Garland
Jones, Ferris J. bas-F	.....Logan	Larsen, Melva bas-ss	.....Logan
Jones, Allen G. bas-ss	.....Henifer	Larsen, R. V. bas-G-ss	.....Smithfield
Jones, Kate ho-F	.....Monroe	Larsen, Thelma B. ho-So	.....Preston, Idaho

Larson, Vernon bas-F	Smithfield	McMillan, Mary bas-ss	Standardville
Larson, Vernon J. aema-So	Newton	McNeil, C. Leland c-So	Logan
Larson, Vincent bas-So	Smithfield	McNeil, Jennetta bas-S	Logan
Lou, Ruth c-So	Soda Springs, Idaho	Madsen, Anne bas-ss	Logan
Law, Helen bas-F	Logan	Madsen, Edna ho-So	Maunti
Law, Joseph F. bas-ss	Brigham City	Madsen, Evelyn bas-So	Mt. Pleasant
Layton, Arthur c-F	Kaysville	Madsen, Orson P. bas-G-ss	Price
Layton, Harold aema-S	Kaysville	Maeser, Sherwin bas-G-ss	Logan
Layton, Len H. c-So	Layton	Mohaney, J. Rolla bas-G-ss	Brigham
Layton, Paul C. c-F	Kaysville	Mallory, Alta bas-So	Shelley, Idaho
Leahy, Jack aema-So	Park City	Mallory, John C. bas-So	Logan
Leatham, Barbara bas-ss	Wellsville	Mallory, Gladys ho-So	Logan
Leatham, Ruby bas-F	Wellsville	Malmberg, J. P. ss	Logan
Ledingham, C. B. c-S	Bountiful	Malmberg, Mary c-ss	Logan
Lee, Ernest R. c-J	Hyde Park	Malmrose, Dorothy bas-F	Logan
Lee, Eulalia bas-F	Hyde Park	Maloney, William F. c-ss	Ogden
Lee, Inez bas-V	Hyde Park	Manning, Rulon H. bas-ss	Garland
Lees, Ellen bas-ss	Pocatello, Idaho	Marble, Hortense bas-F	Brigham City
Le Fevre, Jane bas-ss	Panguitch	Mark, Wm. D. aema-So	Logan
Le Fevre, Mable bas-ss	Panguitch	Martin, Ethel L. bas-ss	Ogden
Leib, Esther E. bas-G-ss	Salt Lake City	Martineau, Aileen bas-ss	Logan
Leishman, Robert L. bas-J	Wellsville	Martineau, Vere L. bas-G-ss	Salt Lake City
Lemon, Ann c-F-ss	Hyrum	Martindale, Addington bas-So	Logan
Lemon, Cleon bas-S	Willard	Mason, Veda bas-J	Willard
Lemon, Genova bas-F-ss	Brigham City	Mathis, Mary F. bas-ss	Price
Lenkersdorfer, Pernecy ho-F	Logan	Matley, Mark a-J	Spanish Fork
Lewis, Lyman W. bas-ss	Fresno, Calif.	Matthews, Myrtis bas-J	Oakley, Idaho
Liddle, Wallace J. aema-So	Logan	Maughan, A. M. bas-G-ss	Richfield
Lindsay, Della bas-ss	Heber	Maughan, Alton aema-So	Logan
Lindsay, Mrs. M. P. bas-ss	Taylorville	Maughan, Barbara bas-ss	Wellsville
Lines, Clara bas-ss	Pima, Arizona	Maughan, Elsie E. bas-G-ss	Logan
Linford, A. J. bas-So-ss-Fed	Garland	Maughan, Elvin aema-So	Logan
Linford, Hooper bas-S-ss	Logan	Maughan, Inez bas-G-ss	Logan
Linford, Howard bas-So	Kaysville	Maughan, J. Howard bas-G-ss	Logan
Linford, Leon Blood bas-G-ss	Logan	Maughan, Kenneth bas-So	Logan
Linford, Zilla ho-F	Logan	Maughan, Marjorie bas-So-ss	Logan
Linn, Maomi bas-ss	Merced, Calif.	Maughan, Reese bas-S-ss	Wellsville
Lofthouse, Harriet bas-ss	Avon	Maughan, Nona G. bas-ss	Logan
Lomax, Claude R. c-F	Nephi	Maughan, Preston B. c-ss	Logan
Losee, Joseph aema-So	Brigham City	Maughan, Rulon B. c-ss	Wellsville
Love, Ora ho-S	Hooper	Maughan, Ruth bas-S	Logan
Love, Vernon bas-J	Kaysville	Maughan, Sarah bas-ss	Logan
Loveland, Verda bas-ss	Albion, Idaho	May, R. Golden bas-ss	Rupert, Idaho
Loveless, Florence bas-F	Logan	Maycock, Mirmiam bas-ss	Logan
Lowry, Ivy C. bas-G-ss	Salt Lake City	Maycock, Rena B. bas-ss	Logan
Luke, Ondette bas-ss	Junction	Merrill, Ariel C. a-S	Logan
Lund, Ethel bas-ss	Mt. Pleasant	Merrill, Asa J. bas-J-ss	Logan
Lundell, Harold a-G-ss	Spanish Fork	Merrill, Hattie ho-S	Logan
Lunt, Anthon H. c-S	Cedar City	Merrill, Laura bas-V-ss	Logan
MacArthur, J. Wesley bas-F-ss	Lovell, Wyo.	Merrill, Leah D. bas-J	Logan
McAllister, Annie bas-F	Kanab	Merrill, Malcolm H. bas-G-ss	Richmond
McBride, C. D. bas-ss	Clarkston	Merrill, Milton R. c-G-ss	Logan
McBride, Wm. C. a-So	Logan	Meyrick, Joseph c-S	Logan
McCombs, John aema-V	Logan	Mickelson, Aslaugh bas-So	Shelley, Idaho
McCullock, Anna Lyle ho-F	Logan	Midgley, A. R. a-G	Salt Lake City
McCullock, Anna bas-ss	Logan	Mihfeldt, August H. bas-G-ss	Salt Lake City
McCullock, Laurence c-ss	Logan	Mihfeldt, Gertrude W. bas-G-ss	Salt Lake City
McCune, John G. c-So	Ogden	Mikkelson, Loren P. bas-ss	Echo
McCarrey, May bas-ss	Logan	Miles, Donald aema-S	Paradise
McGaven, Beatrice bas-So	Logan	Miles, Ferris W. c-J	Smithfield
McElreath, Martha M. bas-ss	Chickasha, Okla.	Miles, Orion aema-V	Smithfield
McKay, Morgan P. bas-G-ss	Junction	Miles, Rae ho-F	Salt Lake City
McKee, Mira ho-ss	Morgan	Miller, Constance bas-ss	Thayne, Wyo.
McKellips, Marion c-S	Provo	Miller, Helen L. bas-G-ss	Chicago, Illinois
McKinney, Price aema-F	Goshen	Miller, Horace aema-So	Panguitch
McKinnon, Arla ho-J	Ogden	Miller, Paul aema-V	Thayne, Wyo.
McKnight, B. Stanley a-G-ss	Minersville	Mills, Grace B. bas-So	Hoytsville

Milne, Ingrid bas-ss ..... McGill, Nevada  
 Miner, Ruth E. bas-ss ..... Logan  
 Min, Joseph W. bas-ss ..... Seoul, Korea  
 Mitchell, Maude c-So ..... Ogden  
 Moen, Johanna ho-G-ss ..... Logan  
 Moench, Louis F. bas-ss ..... Logan  
 Moffat, June A. bas-So ..... Glenco, Wyo.  
 Moffatt, Mildred V. bas-ss ..... Bellingham, Wash.  
 Monson, B. C. c-J ..... Richmond  
 Monson, Elnora bas-ss ..... Preston, Idaho  
 Monson, J. Vernon c-So ..... Smithfield  
 Monson, Marie J. ho-V ..... Logan  
 Monson, Olof W. aema-S-Fed ..... Logan  
 Monson, Paul c-S ..... Richmond  
 Monson, Roland P. c-J ..... Logan  
 Monson, W. Russell bas-ss ..... Hyrum  
 Moors, T. B. bas-ss ..... Hyrum  
 Morgan, David bas-G-ss ..... Logan  
 Moorman, Erma bas-ss ..... Logan  
 Morgan, Frank O. c-F ..... Nephi  
 Morgan, Harriet ho-S-ss ..... Spanish Fork  
 Morgan, Lucille bas-F ..... Logan  
 Morgan, Mrs. M. E. bas-ss ..... Montpelier, Idaho  
 Morgan, W. E. bas-ss ..... Montpelier, Idaho  
 Morrell, Lillian ho-F ..... Hyde Park  
 Morrell, Lyman c-J ..... Hyde Park  
 Morrell, Marriner D. c-S ..... Hyde Park  
 Morris, Sadie O. bas-G-ss ..... Logan  
 Mortensen, Doris ho-F ..... Brigham City  
 Mortensen, Hyrum K. bas-G-ss ..... Thatcher, Ariz.  
 Mortensen, Tillie c-ss ..... Thatcher, Ariz.  
 Morton, Jack C. bas-F ..... Logan  
 Moser, E. V. aema-J ..... Logan  
 Mouritsen, Leah c-J ..... Logan  
 Mousley, Ella bas-ss ..... Riverton  
 Moyle, Joyce Nebeker ho-ss ..... Wash., D. C.  
 Muir, Grace c-V ..... Mendon  
 Muir, Maida c-F ..... Mendon  
 Muir, Mary ho-J ..... Beaver  
 Mulliner, Virgie bas-So ..... Salt Lake City  
 Munn, Leon bas-ss ..... Logan  
 Murdock, Douglas T. a-S-ss ..... Heber City  
 Murray, David P. a-G-ss ..... Logan  
 Murray, Evan B. bas-ss ..... Wellsville  
 Murray, Seymour a-S-Fed-ss ..... Wellsville  
 Murray, T. B. bas-J ..... Wellsville  
 Naibitt, Mary bas-ss ..... Hooper  
 Neal, John C. bas-ss ..... Farr West  
 Neal, Jennie C. bas-ss ..... Farr West  
 Nebeker, Ann bas-ss ..... Salt Lake City  
 Nebeker, Lora B. bas-G-ss ..... Salt Lake City  
 Nebeker, Marion bas-ss ..... Brigham City  
 Nelson, Alfred a-F ..... Richmond  
 Nelson, Almada G. bas-ss ..... Preston, Idaho  
 Nelson, Anna R. bas-ss ..... Providence  
 Nelson, D. H. bas-G-ss ..... Logan  
 Nelson, Elnora ho-ss ..... Smithfield  
 Nelson, Frank A. aema-V ..... Logan  
 Nelson, Howard bas-So ..... Logan  
 Nelson, Irvin T. a-G-ss ..... Cedar City  
 Nelson, Ivy bas-ss ..... Logan  
 Nelson, Lillian bas-ss ..... Buhl, Idaho  
 Nelson, Mabel M. bas-ss ..... Logan  
 Nelson, Peter a-G-ss ..... Logan  
 Nelson, Rebecca ho-G-ss ..... Logan  
 Nelson, Sterling c-So ..... Logan  
 Neslen, Grace Cannon bas-ss ..... Salt Lake City

Newey, Aaron aema-G-ss ..... Logan  
 Neves, Audrey Emaline bas-ss ..... Millville  
 Newcomb, Mrs. Florence bas-G-ss ..... Ogden  
 Nichol, Margaret T. bas-G-ss ..... Caldwell, Idaho  
 Nichols, Delore aema-G-ss ..... Morgan  
 Nichols, Mary bas-So ..... Brigham City  
 Niederhauser, Alma J. aema-V ..... Logan  
 Nielsen, Cantril bas-So ..... Hyrum  
 Nielsen, Elsie ho-ss ..... Murray  
 Nielsen, Florence bas-J-ss ..... Logan  
 Nielsen, Harold bas-So ..... Hyrum  
 Nielsen, Harold E. aema-V ..... Moab  
 Nielsen, Lillie bas-S ..... Logan  
 Nielsen, Mary E. bas-F ..... Mt. Pleasant  
 Nielsen, Russell a-So ..... Hyde Park  
 Nielsen, Vanza bas-ss ..... Tooele  
 Nielson, George A. bas-S ..... Ephraim  
 Nielson, Geo. D. c-So ..... Logan  
 Nielson, Jennie ho-So ..... Montpelier, Idaho  
 Nielson, Zola ho-ss ..... Monticello  
 Niles, Susie bas-ss ..... Salt Lake City  
 Noble, Willard a-S ..... Smithfield  
 Noel, Henry R. aema-So ..... Vernal  
 North, Vera A. ho-S ..... Salt Lake City  
 Norton, E. Virgil bas-S ..... Salt Lake City  
 Nowell, R. a-So ..... Salt Lake City  
 Nuffer, Lloyd aema-S-ss ..... Providence  
 Nuffer, Louis F. a-G-ss ..... Logan  
 Nuffer, Myron D. bas-ss ..... Preston, Idaho  
 Nuffer, Ruby May bas-Un ..... Logan  
 Oberhansley, Henry bas-G-ss ..... Logan  
 Odell, Afton ho-G-ss ..... Logan  
 Odell, Wesley c-So ..... Logan  
 Ogden, Pearl G. bas-ss ..... Ontario, Calif.  
 Oliver, Dean ho-J ..... Sandy  
 Olsen, Alfrida bas-So ..... Richmond  
 Olsen, Hugh aema-J ..... Peterson  
 Olsen, Nolan p. bas-F ..... Logan  
 Olsen, Paul M. c-F ..... Salt Lake City  
 Olsen, Charles G. c-S ..... Logan  
 Olson, Alma A. bas-ss ..... Richmond  
 Olson, Carrie E. bas-ss ..... Smithfield  
 Olson, Cora bas-ss ..... Smithfield  
 Olson, Leland c-So ..... Logan  
 Olson, Lucille bas-So ..... Fountain Green  
 Olson, Ruth Smedley bas-ss ..... Price  
 Olson, S. A. bas-ss ..... Price  
 Olsson, Lillie bas-ss ..... Logan  
 Orman, Iva bas-G-ss ..... Buhl, Idaho  
 Orme, Lillian c-F ..... Tooele  
 Ormond, Mae ho-J ..... Logan  
 Orwin, J. W. a-F ..... Tremonton  
 Osmond, Chas. A. bas-G-ss ..... Salt Lake City  
 Ostler, Dorothy bas-F ..... Salt Lake City  
 Ostler, Rex c-So ..... Nephi  
 Overstreet, C. C. aema-S-Fed ..... Logan  
 Overstreet, Mildred J. bas-So ..... Logan  
 Owen, J. Wallace bas-F ..... Logan  
 Owen, Lucille B. bas-S-ss ..... Logan  
 Owens, Wm. W. a-G-ss ..... Logan  
 Packard, Ivan bas-J-ss ..... Logan  
 Packer, Lee bas-F ..... Preston, Idaho  
 Packer, Ora ho-J ..... Logan  
 Paice, Clifford aema-So ..... Beaver  
 Page, Willis D. c-ss ..... Grace, Idaho  
 Palmer, Darrell c-J ..... Logan  
 Park, Emma bas-ss ..... Chicago, Illinois

Parker, Alton W. c-F	Ogden	Poulson, Thelma bas-ss	Logan
Parker, Edna Wyatt ho-J	Wellsville	Poulter, Liliuo bas-ss	Logan
Parker, H. R. bas-F	Wellsville	Poulter, Manila bas-ss	Logan
Parker, Patricia bas-F	Wellsville	Poultney, H. R. a-G-ss	Logan
Parker, William bas-So	Wellsville	Powell, A. H. aema-G-ss	Logan
Parkinson, Don. B. c-S	Logan	Powell, Kathleen ho-G-ss	Beaver
Parkinson, La Rue bas-ss	Logan	Pratt, Joseph W. a-J	Logan
Parry, Arvilla bas-So	Ogden	Preston, Kathryn ho-F	Logan
Parry, Montella bas-ss	Ogden	Price, Asael W. bas-ss	Laketown
Partington, William aema-F	Logan	Price, E. R. bas-G-ss	Heber
Patterson, J. a-F	Petersboro	Price, Harold a-J	Logan
Peacock, Mildred bas-ss	Manti	Price, Lew Mar bas-G-ss	Beaver
Pearse, Harper c-F	Brigham City	Price, Maude bas-S	Idaho Falls, Idaho
Pearse, Mary R. bas-F	Brigham City	Price, Willard bas-F	Logan
Pearce, Ruth P. bas-ss	Montpelier, Idaho	Provost, Valorus aema-So	Midway
Pearson, Josephine V. bas-ss	Chicago, Ill.	Pryor, Mary E. bas-ss	Mexico, Missouri
Pedersen, Edna c-S	Logan	Pugh, Cecil C. aema-J	Kanaiah
Pedersen, Faye bas-F	Logan	Pugh, Delsa bas-S	Kanaiah
Pedersen, Marcus c-So	Logan	Pugh, Melba bas-So	Kanaiah
Pedersen, N. Alvin bas-G-ss	Logan	Puley, Orion S. aema-J	Logan
Pehrson, F. A. c-V	Logan	Purley, Rodmar L. bas-F	Logan
Perkes, Mae bas-ss	Hyde Park	Quesenberry, Ruth bas-G-ss	Chicago, Ill.
Perry, Ethel A. bas-ss	Cedar City	Ralph, Marva N. bas-G-ss	Salt Lake City
Peters, Ireta bas-ss	Brigham City	Rampton, Henry H. a-So	Bountiful
Peters, Laura bas-ss	Nephi	Ramsey, Allen c-ss	Salt Lake City
Petersen, Constance c-S	Hyrum	Randall, Verna c-So	Ogden
Petersen, Leland c-So	Hyrum	Rasch, Florence S. a-G-ss	Chicago, Illinois
Petersen, LaPhene c-F	Logan	Rash, Artrilla aema-V	Smithfield
Peterson, Alton a-F	Smithfield	Rasmussen, Ann bas-ss	Ogden
Peterson, Amelia ho-ss	Smithfield	Rasmussen, Daniel bas-G-ss	Mt. Pleasant
Peterson, C. N. a-So	Logan	Raymond, Mrs. Lilas c-ss	Logan
Peterson, Darrel bas-F	Salina	Reading, Harold a-F	Logan
Peterson, Ella bas-ss	Tremonton	Reamsnider, Dice aema-So-Fed	Toledo, Ohio
Peterson, Erastus bas-G-ss	Vernal	Redden, Richard E. bas-ss-Fed	Hoystville
Peterson, Erma ho-F	Salina	Reece, Sterling c-J	Paysion
Peterson, Harold c-So	Logan	Reeder, Anna bas-ss	Weston, Idaho
Peterson, Harold a-J	Logan	Rees, Jesse T. bas-ss	Smithfield
Peterson, Henry bas-G-ss	Logan	Reese, Daryl c-F	Logan
Peterson, Howard a-J	Logan	Reese, Maggie J. ho-ss	Logan
Peterson, Inez ho-F	Salina	Reese, Venace bas-So	Brigham City
Peterson, Kirma ho-ss	Logan	Reid, Margaret bas-Un	Lund, Nevada
Peterson, Lloyd bas-F	Logan	Rencher, Delesa bas-ss	Eager, Arizona
Peterson, Parley E. c-ss-G	Logan	Rex, Leland G. c-F	Logan
Peterson, Thelma ho-S	Portland, Oregon	Rex, Mary B. bas-J-ss	Logan
Peterson, Walter c-F	Salt Lake City	Reynolds, Mrs. Bertha bas-ss	Brigham City
Peterson, Wm. bas-G-ss	Logan	Reynolds, Ruth ho-ss	Mt. Pleasant
Pett, Helen bas-F	Eureka	Rhead, Hortense ho-ss	Salt Lake City
Phillips, Wendell c-F	Kaysville	Rice, Jane ho-J	Logan
Pickering, Margaret C. ho-ss	Salt Lake City	Rich, Don. C. bas-F	Logan
Pickett, Rodney bas-So	Logan	Rich, Lyman H. bas-G-ss	Logan
Pierce, Mariam bas-F	Logan	Rich, Virginia bas-So	Logan
Pimentel, George B. bas-ss	Fresno, Calif.	Richards, B. L. a-G-ss	Logan
Pittman, Blanche bas-G-ss	Logan	Richards, Ella C. bas-ss	Logan
Pittman, D. W. bas-G-ss	Logan	Richards, Lorenzo A. bas-S-ss	Brigham City
Pixton, Robert L. bas-G-ss	Sandy	Richards, Mathias C. bas-F	Brigham City
Pixton, Roscoe T. a-So	West Jordan	Richards, Pearl ho-F	Logan
Pocock, C. Lester c-F	Tooele	Richardson, David A. bas-F	Logan
Pond, Gayle ho-S-ss	Brigham	Richardson, Persyl bas-F	Sanady
Pond, Julia ho-J	Grace, Idaho	Richardson, Stanley S. a-G-ss	Sanady
Pond, Genevieve c-So	Logan	Richardson, Wilmer a-F	Sanady
Pond, La Verna bas-So	Grace, Idaho	Ricks, Joel E. bas-G-ss	Logan
Pope, Mrs. Olga bas-ss	Duchesne	Ricks, Katherine M. bas-ss	Logan
Porter, Blondel T. bas-ss	Hyrum	Rider, Lois c-F	Logan
Porter, Wilford D. bas-G-ss	Hyrum	Rigby, Hazel c-ss	Newton
Poulsen, Dorothy c-ss	Logan	Rigby, Margaret M. bas-ss	Idaho Falls, Idaho
Poulson, M. O. bas-G-ss	Logan	Rigby, Milton bas-F	Newton
Poulson, Oleta ho-G	Brigham City	Rigby, Murland bas-F	Newton

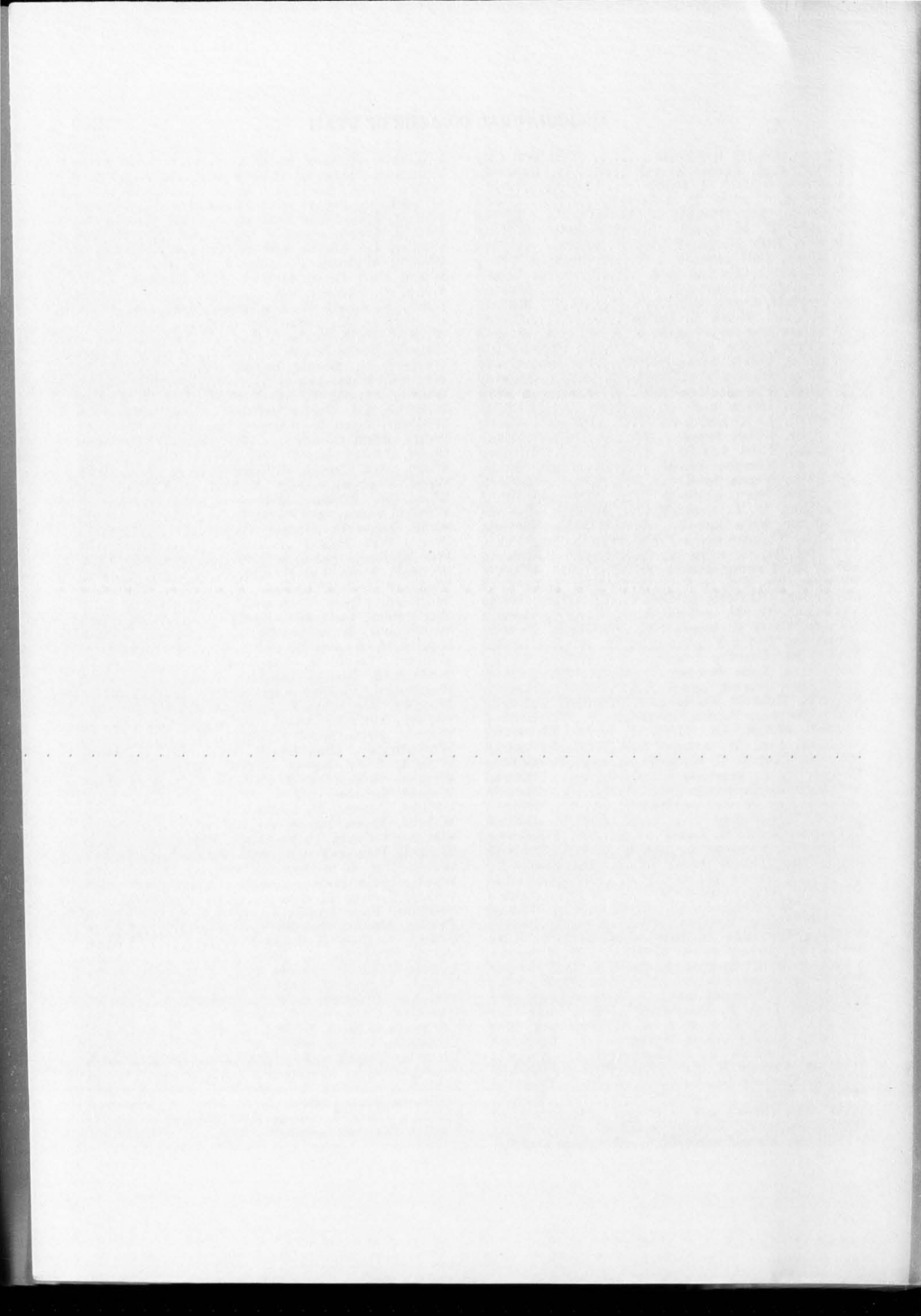
Riser, Ruth bas-ss	McGill, Nevada	Sharp, Jewell bas-ss	Hiko, Nevada
Ritchie, G. Wendel bas-So	Logan	Shaw, Byron bas-F	Logan
Ritchie, Horace J. a-F	Charleston	Shaw, Elizabeth bas-J	Ogden
Riter, Kersey c-F	Logan	Shaw, Hortence c-F	Paradise
Riter, J. Randolph bas-S	Logan	Shaw, Seth bas-F	Logan
Riter, William E. a-G	Logan	Sheets, Fern aema-F	Salt Lake City
Roberts, Leland c-F	Logan	Shelton, Lilla c-ss	Logan
Robinson, D. E. c-G-ss	Logan	Shepard, Idalah M. ho-S-ss	Logan
Robinson, Florence bas-ss	Salt Lake City	Shepard, Louise c-F	Logan
Robinson, Freda ho-ss	Cedar City	Shipley, Merlin c-F	Logan
Robinson, Kenneth C. c-ss	Logan	Shurtleff, Keith c-F	Ogden
Robinson, Lydia bas-ss	Beaver	Shurtleff, Vernal c-So	Ogden
Robinson, Warren aema-So	Coalville	Shurts, Oneta K. ho-ss	Escalante
Robison, M. D. Jr. bas-G-ss	Logan	Shumway, Lola bas-ss	Thatcher, Arizona
Rogers, Mourine bas-J-ss	Lewiston	Sickenberger, Laura bas-G-ss	Chicago, Ill.
Rogers, Lu Dean bas-F	Lewiston	Simpson, Ardelle ho-F	Logan
Rogers, Noah Jr. aema-F	Fillmore	Simpson, C. O. bas-S	Logan
Rogers, Sadie bas-F	Fillmore	Skanchy, Alphonso bas-G-ss	Logan
Rogers, Theodore a-So	Fillmore	Skancey, Antone L. bas-V-ss	Logan
Rogers, William Harry bas-F	Garfield	Skancey, Miriam Ritchie ho-So-ss	Logan
Roland, Lewis a-So-ss	Salt Lake City	Skancey, Segrid bas-F	Logan
Rollins, Clarence aema-So	Beaver	Skancey, W. Leland c-So	Logan
Rollins, J. Avarad bas-F	Lyman, Wyo.	Skeen, Virginia ho-ss	Salt Lake City
Rollo, Clint bas-ss	Thatcher, Arizona	Skidmore, Charles H. bas-G-ss	Brigham City
Romney, Van E. a-So	Salt Lake City	Skinner, C. H. aema-J-Fed	Moriarty, N. M.
Rosengreen, Eldon J. c-J	Logan	Skinner, Jos. F. a-ss	Spanish Fork
Rosengreen, George bas-So	Logan	Slater, Helen bas-ss	Ogden
Roskelley, Marriner W. a-ss	Smithfield	Smart, Gene c-So	Logan
Ross, Hazel A. bas-ss	Jerome, Idaho	Smart, Theron bas-F	Sandy
Ross, L. Roy c-F	Richfield	Smith, Adrin B. bas-G-ss	Logan
Rott, Edward H. Jr. bas-G-ss	Dixon, Calif.	Smith, A. E. a-G-ss	Nephi
Rouech, Gwyn bas-So	Logan	Smith, Arthur T. bas-G-ss	Lodi, Calif.
Roundy, Elizabeth Pugh bas-S	Kanab	Smith, Mrs. Clara Koop bas-ss	Ogden
Roundy, Zola D. a-So-ss	Escalante	Smith, Clarence E. bas-G-ss	Garland
Rowe, Gus F. c-F	Eureka	Smith, Clyde a-S	Logan
Russell, Laddie bas-F	Kamas	Smith, Dorothy c-F	Logan
Ryan, Orson bas-ss	Logan	Smith, Editha ho-S	Beaver
Rydalch, Jethro aema-F	Logan	Smith, Edith D. ho-ss	Logan
Rynearson, Sidney bas-V	Murray	Smith, Ediza B. bas-ss	Pocatello, Idaho
Salmon, Nelson H. bas-F	Kemmerer, Wyo.	Smith, G. Gibbs bas-So	Logan
Sampson, Ellen bas-So	Eureka	Smith, Hattie bas-ss	Logan
Sanders, Leah ho-V	Fairview	Smith, Ivy L. ho-F-ss	Logan
Sanders, Newell bas-J	Kaysville	Smith, Joseph J. bas-F	West Jordan
Sandstrom, Bernadean bas-ss	Ogden	Smith, J. Rennell aema-F	Richmond
Savage, Karl G. bas-So	St. George	Smith, J. Russell bas-J	Logan
Savage, Margaret bas-ss	Urbana, Ill.	Smith, J. Sermon c-F-ss	Logan
Saxer, A. H. bas-G-ss	Logan	Smith, Kenneth E. c-J	Logan
Saxer, Alton bas-F	Logan	Smith, Lorin L. bas-ss	Smithfield
Schank, Leroy C. a-G-ss	Ft. Sumner, N. M.	Smith, Lyman c-F	Logan
Schaub, Vesta bas-J	Logan	Smith, Mary bas-So	Brigham City
Scheby, Vera bas-J	Logan	Smith, Maud bas-So	Holbrook, Idaho
Schiess, Lloyd bas-F	Providence	Smith, M. W. bas-G-ss	Richfield
Schock, Pearl bas-ss	Pasadena, Calif.	Smith, Myrtle bas-So	Logan
Scholes, Stanley aema-V	Logan	Smith, Nettie bas-F	Beaver
Schow, Howard E. aema-F	Logan	Smith, Ralph Porter c-F	Farmington
Scott, Elizabeth ho-J	Salt Lake City	Smith, R. Denton bas-G-ss	Logan
Scowcroft, Margaret ho-F	Ogden	Smith, Roland B. bas-J	Clearfield
Seamons, J. W. bas-ss	Hyde Park	Smith, Ronald bas-F	Logan
Seamons, Vernal c-F	Hyde Park	Smith, Ruby ho-G-ss	Provo
Seerist, Wallace bas-F	Logan	Smith, Sarah bas-F	Holbrook, Idaho
Seely, A. Eluryn c-ss	Brigham City	Smith, Veta bas-ss	Lewiston
Severance, Hayward M. bas-G-ss	Buffalo, N. Y.	Smith, Virginia bas-F	Logan
Sevy, Mary c-F	Panguitch	Smith, William bas-So	Franklin, Idaho
Sevy, V. M. c-J	Panguitch	Smith, Willis a-G-ss	Ogden
Shallenberger, J. G. c-F	Ely, Nevada	Snider, Jessie bas-ss	Garland
Shand, Afton Lynn bas-F	Manti	Snyder, Althia bas-ss	Salt Lake City
Sharp, David Jr. bas-G-ss	Coalville	Soffe, Wallace c-F	Sandy



Sorensen, Ada ho-S-ss	Logan	Tanner, Mary bas-ss	Ogdenn
Sorensen, Edna bas-So	Logan	Tanner, Mathias C. bas-G-ss	Ogdenn
Sorensen, Hattie ho-ss	Morgan	Tanner, Ruth bas-ss	Ogdenn
Sorensen, Byron J. aema-V-ss-Fed	Richfield	Tanner, Vivian bas-So	Logann
Sorenson, Lavell bas-ss	Smithfield	Tarbett, Lee Ora bas-F	Logann
Sorenson, Lawrence J. bas-G-ss	Logan	Taylor, Appollos B. bas-ss	Willardd
Sorenson, Stella c-F	Smithfield	Taylor, Asael J. a-G-ss	Willardd
Sowby, Alice bas-So	Nephi	Taylor, Elma bas-ss	Ogdenn
Spande, Helen bas-F	Logan	Taylor, Glenn bas-J	Parowan
Spande, Margot bas-So	Logan	Taylor, Warren, H. bas-G-ss	Logann
Sparks, Le Roy c-So	Newton	Taylor, Janet M. bas-ss	Ogdenn
Spencer, George Q. a-S	Salt Lake City	Taylor, Mel, bas-ss	Hiener
Spence, Paul A. aema-V-Fed	Garden City	Taylor, Truth bas-F	Burley, Idaho
Spencer, Pearl bas-ss	Logan	Telford, Chas. W. bas-ss	Idaho Falls, Idaho
Spilsbury, Marlowe a-F	Cedar City	Tenhave, Hessel W. bas-ss	Cooperville, Michn.
Squires, Harriett bas-F	Logan	Tennant, Margaret bas-ss	Logann
Staker, Ernest V. bas-G-ss	Mt. Pleasant	Tenny, J. R. bas-ss	Pima, Arizona
Stalder, William G. aema-V	Providence	Thain, Theodore bas-So	Logann
Stanger, Glenn S. c-F	Idaho Falls, Idaho	Thalman, Ray R. a-S	Chilly, Idaho
Stanford, Jos. Sedley bas-G-ss	Carey, Idaho	Thatcher, Carma bas-F	Ogdenn
Stanford, Mrs. Pearl I. bas-ss	Carey, Idaho	Thatcher, Ida Louise bas-So	Logann
Staples, Erwin aema-F	Elsinore	Thatcher, Lionel c-J	Ogdenn
Stark, Arvil a-So	Salt Lake City	Thatcher, Lettie bas-G-ss	Logann
Starr, Stewart B. aema-So	Springville	Thatcher, Martha bas-ss	Logann
Staufer, Lynn bas-So	Mendon	Thatcher, Orson R. a-F	Logann
Staufer, Thelma c-F	Logan	Thayne, W. J. bas-G-ss	Farmington
Stayner, Nina W. bas-ss	Garland	Theurer, Lloyd bas-So	Providence
Steiner, Glendon E. c-So	Logan	Theurer, Melba bas-So	Providence
Stephens, Melvin a-F	Montpelier, Idaho	Thomas, Alvin bas-ss	Samaria, Idaho
Stephens, Newel a-So	Logan	Thomas, DeGrace bas-G-ss	Johnstown, Pennn.
Stevens, Frank c-So	Brigham City	Thomas, Edward A. aema-V	Spanish Fork
Stevens, Helen E. bas-So	Ogden	Thomas, Elizabeth bas-ss	Ogden
Stewart, J. Z. III c-So	Logan	Thomas, Ellen bas-J	Logann
Stewart, King c-So	Logan	Thomas, Floyd c-J	Ogden
Stewart, Robert H. a-G-ss	Brigham City	Thomas, Jos. M. bas-F	Logann
Stewart, Vera bas-So	Logan	Thomas, Margaret c-F	Logann
Stirland, Byron J. bas-J	Providence	Thomas, Parker a-So	Logann
Stock, La Priel bas-ss	Fish Haven, Idaho	Thomas, W. P. aema-G-ss	Ogden
Stock, Sidney R. aema-G-ss	Logan	Thompson, Ethel M. bas-ss	Pocatello, Idaho
Stoker, Bertha ho-J	Clearfield	Thompson, Irene bas-F	Ogden
Stoker, Clarence bas-F	Clearfield	Thompson, Rose J. ho-G-ss	Cedar City
Stout, Franklin Lyman bas-J-ss	Logan	Thomson, J. Maiben bas-ss	Ephraim
Stout, Wendell c-G-ss	Cedar City	Thornley, H. Floyd c-So	Smithfield
Stott, C. O. a-G-ss	Manti	Thornley, W. R. bas-S-ss	Logann
Stratford, E. C. bas-G-ss	Logan	Thorpe, Burdett bas-V	Providence
Stringham, Ruby ho-So	Bountiful	Thorson, Edna ho-So	Bear River City
Stringham, Walter bas-F	Millville	Thurber, Marba bas-ss	Logann
Stuart, Carl G. bas-ss	Woodruff	Thurgood, Lee E. a-F	West Point
Stuart, Dale a-F	Malad, Idaho	Tibbitts, Greta bas-ss	Providence
Stuart, Melba ho-F	Wellsville	Tingey, Delmar C. a-G-ss	Brigham
Stuart, William c-So	Wellsville	Tingey, Thelma bas-ss	Brigham City
Sutherland, Mary E. ho-G-ss	Pullman, Wash.	Tingey, Waiora bas-ss	Woodruff
Sutton, Damaris bas-So	Logan	Tingey, Willis Alma aema-So	Brigham City
Swendsen, Hortense bas-F	Rexburg, Idaho	Titensor, Roscoe bas-ss	Logann
Swendsen, Merlin aema-F	Rexburg, Idaho	Todd, Glenn aema-V	Salt Lake City
Swendsen, D. A. bas-G-ss	Logan	Todd, Nona bas-So	Ogden
Swensen, Lorenzo c-ss	Montpelier, Idaho	Tolman, Bion a-F	Salt Lake City
Swensen, Lydia bas-ss	Logan	Tolman, Nathan bas-S	Logann
Swinyard, Chester A. bas-So	Logan	Towsley, Elizabeth M. bas-ss	McGill, Nevada
Swinyard, William O. bas-J	Logan	Towsley, Guy V. bas-ss	McGill, Nevada
Sylvester, Adylene bas-G-ss	Chicago, Illinois	Trader, Margaret M. bas-G-ss	Roseburg, Ore.
Syphus, Elizabeth Tullis bas-So	Huntington	Trimble, Cuthbert bas-ss	Logann
Syme, Louise bas-J	Logan	Trimble, Hazel L. bas-ss	Logann
Symons, Jas. N. c-So	Logan	Trussell, Brandon bas-G-ss	Boyd, Texas
Tambini, Katie bas-ss	Eureka, Nevada	Tuckfield, Maud ho-ss	Salt Lake City
Tanner, A. E. bas-G-ss	Moab	Tuddenham, Evelyn ho-F	Newton
Tanner, Helen bas-ss	Ogden	Turner, James D. aema-V	Murray



Tyson, Gladys bas-So-ss	Brigham City	Williams, Howard bas-F	Kaysville
Underwood, James T. c-F	Kaysville	Williams, Margaret bas-ss	Provo
Vernon, Aldyth bas-G-ss	Logan	Willie, Leon bas-G-ss	Mendon
Vernon, Clinton D. c-So-ss	Logan	Williamson, Marguerite bas-ss	Ogden
Vernon, Mrs. Fannie M. bas-ss	Logan	Wilson, Edna bas-F-ss	Logan
Victor, R. M. bas-J	Brigham City	Wilson, Gwyn aema-V	Logan
Wade, Ellis M. bas-F	Ogden	Wilson, Le Moyno a-J	Logan
Wadley, Reif aema-F	Pleasant Grove	Wilson, Wilburn J. aema-J	Logan
Wadsworth, Harold a-S	Logan	Winn, Carl D. aema-G-ss	Maricopa, Calif.
Wagstaff, Arthur a-S	Murray	Winn, D. Sheldon a-J	Nephi
Wagstaff, Owen c-F	Murray	Winn, Elizabeth W. bas-G-ss	Maricopa, Calif.
Wahlquist, Keith C. bas-ss	Ogden	Winsor, L. M. aema-G-ss	Logan
Wakley, Dorothy bas-So	Logan	Winsor, Ruth bas-ss	St. George
Waldron, Nello c-F	Tremonton	Winsor, Tillie bas-ss	St. George
Walker, Calvin aema-F	Pleasant Grove	Winters, N. Blanie bas-ss	Garland
Walker, Clive a-F	Murray	Winters, Rhea bas-ss	Garland
Walker, Florence bas-G-ss	American Fork	Wintle, Arnold V. bas-F	Honeyville
Walker, Hosea a-F	Hinkley	Wittwer, La Verne c-J-ss	Huntington
Walker, Le Grand a-So	Pleasant Grove	Wittwer, John H. c-G-ss	Las Vegas, Nevada
Walker, Mabel bas-J	Eden	Wolfe, Joan C. c-V	Logan
Walker, Reed bas-So	Hinkley	Wood, Albert bas-F	Payson
Walker, Therna bas-ss	Oakley, Idaho	Wood, Mrs. Cassie H. bas-ss	Logan
Walker, Verna ho-J	Layton	Wood, Frances bas-F	Promontory
Wallace, Nora ho-So-ss	Briggs, Idaho	Wood, W. Edwin bas-G-ss	Logan
Walther, W. C. aema-V	Halleck, Nevada	Wood, Gordon c-F	Nephi
Walther, Villa bas-ss	Halleck, Nevada	Wood, Leon H. aema-V	Mendon
Walsh, Thomas aema-F-Fed.	Pittsburgh, Penn.	Wood, Wm. H. a-F	Minersville
Walter, H. G. a-So	Richmond	Woods, Ruth bas-G-ss	Laredo, Mo.
Walton, Dewena bas-ss	Afton, Wyo.	Woodall, Faye bas-F	Logan
Warburton, Bub c-F	Salt Lake City	Woodard, Sylvia bas-ss	Widtsoe
Warner, Charlotte ho-G-ss	Grace, Idaho	Woodard, Claire Vern c-ss	Cedar City
Warner, W. H. a-S-ss	Logan	Woodhouse, Gertrude ho-So	Logan
Warr, Clara E. bas-ss	Deeth, Nevada	Woodhouse, Kate bas-ss	Logan
Warren, Rex a-F	Price	Woodruff, Angus Q. a-S	Smithfield
Watkins, Dorothy bas-F	Logan	Woodward, David A. bas-G-ss	Logan
Watkins, Lyde bas-So	Tremonton	Woodward, Gladys bas-So	Franklin
Watkins, Norma bas-S	Logan	Woodward, Marlow a-So	Franklin
Watts, Ruth E. bas-ss	Denver, Colorado	Woozley, Mary bas-F	Salt Lake City
Weatherston, Bertha ho-ss	Ogden	Worley, Dorothy bas-J	Logan
Webb, Milton c-S	Richmond	Worley, Erma bas-J	Logan
Wehse, Fred W. aema-V	Logan	Worthington, Glen bas-F	Nephi
Welch, Judson C. aema-V	Providence	Wright, Edna bas-ss	Logan
West, F. L. bas-G-ss	Logan	Wright, Golden bas-J	Hinkley
West, Ray B. aema-G-ss	Logan	Wright, Ianthus a-J	Hinkley
West, Ray B. Jr. aema-ss	Logan	Wright, Joseph M. aema-V	Hinkley
West, Roy a-F-ss	Logan	Wright, Myra bas-ss	Ogden
Weston, Rulon J. bas-F	Laketown	Wright, Othelia P. ho-G-ss	Blackfoot, Idaho
Whatcott, Clement L. bas-ss	Plymouth	Wright, Rue c-F	Logan
Wheatley, Estelle bas-F	Brigham City	Wrigley, R. L. a-G-ss	Logan
Wheeler, Bessie bas-ss	Lewiston	Wyatt, Elsie ho-F	Wellsville
Wheeler, Ethel bas-ss	Ogden	Wyatt, Sidney L. c-ss	Wellsville
White, Erma bas-So	Willard	Yeaman, Faye bas-So	Logan
White, Hettie ho-G-ss	Beaver	Yeates, Marvin bas-So	Logan
White, Hortense ho-G-ss	Salt Lake City	Young, Carlton S. aema-F	Logan
Whittier, Robert bas-ss	Peterson	Young, Francis M. c-G-ss	Logan
Widdison, R. Eugene bas-ss	Hooper	Young, John A. bas-ss	Cedar City
Widtsoe, Anna bas-ss	Salt Lake City	Youngs, Anna M. bas-ss	Erie, Penn.
Widtsoe, K. Marsel c-ss	Salt Lake City	Younker, Chester a-So	Logan
Widtsoe, Leah D. bas-G-ss	Salt Lake City	Younker, Christine B. bas-F	Logan
Wight, Elva bas-F	Brigham City	Yorgason, Laura c-F	Logan
Wilcox, Claude Alden bas-ss	Lewiston	Yorgason, Lillian c-F	Logan
Wilcox, Frances R. c-G-ss	Lehi	Yoshida, Frank a-F	Tremonton
Wilcox, George B. c-F	Kaysville	ZoBell, Claude E. bas-ss	Rigby, Idaho
Wilde, Genieve bas-So	Coalville	Zollinger, Charles J. aema-V	Providence
Willey, Rudell F. aema-F	Layton	Zollinger, Ruth ho-So	Providence
Williams, Carrall c-F	Brigham City	Zumbro, Olive J. bas-ss	Riverside, Calif.
Williams, David Edward aema-ss	Price	Zundel, Stephen aema-F	Brigham
Williams, Harold aema-So	Bingham Canyon		



SUMMARY OF ATTENDANCE 1925-26

	Agri- culture		A. E. M. A.		Basic Arts and Science		Commerce		Home Econ.		Totals
	Collegiate Civilian	Collegiate Federal	Collegiate Civilian	Collegiate Federal	Collegiate Civilian	Collegiate Federal	Collegiate Women	Collegiate Civilian	Collegiate Federal	Collegiate Women	
	Men		Men		Men		Men				
<i>Collegiate</i> . . . . .											
Graduates . . . . .	11		3		14		7			3	38
Seniors . . . . .	19	2	9	2	26		13	19	1	3	113
Juniors . . . . .	17		12	1	36		29	32		4	20
Sophomores . . . . .	36		31	1	60	1	75	50		7	29
Freshmen . . . . .	46		38	1	77		76	57		28	29
Unclassified . . . . .			1				2				3
Total Collegiate . . . . .											
Civilian . . . . .	129		94		215		195	165		42	100
Total Collegiate . . . . .											
Federal . . . . .		2		5		1			1		9

	Agri- culture		A. E. M. A.		Basic Arts and Science		Commerce		Home Econ.		Totals
	Vocational Civilian	Vocational Federal	Vocational Civilian	Vocational Federal	Vocational Civilian	Vocational Federal	Vocational Women	Vocational Civilian	Vocational Federal	Vocational Women	
	Men		Men		Men		Men				
Total . . . . .											
Vocational . . . . .	2		54	2	9		9	6		6	4

Summer Quarter (1925) . . . . .	795
Total Resident Enrollment . . . . .	1836
Less Names Repeated . . . . .	Men . . . . . 73
	Women . . . . . 48
	121
Net Total Resident Enrollment for year . . . . .	1715

## SUMMARY OF 1925 SUMMER QUARTER REGISTRATION

	Men	Women	Total	
Undergraduates . . . . .	193	350	543	
Graduates . . . . .	170	82	252	
	<u>363</u>	<u>432</u>	<u>795</u>	
Correspondence Department—Men . . . . .			220	
Women . . . . .			252	472
Extension Classes—Men . . . . .			94	
Women . . . . .			123	217
				<u>689</u>
Less Names Repeated—Men . . . . .			91	
Women . . . . .			62	153
Total, less names repeated . . . . .				<u>536</u>
Net Total Registration for year . . . . .				<u>2251</u>

## ENCAMPMENT AND SHORT COURSES

*Farmers' Encampment, Logan—Men . . . . .	649	
Women . . . . .	694	1343
Club Leader Training School—Boys . . . . .	47	
Girls . . . . .	63	110
		<u>1453</u>
Scout Masters' School—Men . . . . .		94
Net Total Registration at Encampment and Short Courses . . . . .		<u>1547</u>
*In Addition there were 953 Children.		

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## YEAR-ROUND SERVICE

By offering four quarters of twelve weeks each, the Utah Agricultural College renders year-round service to Utah and the West. Students may enter at the beginning of any quarter and find new courses starting. It is best to begin with the Fall Quarter and continue until the close of school in the Spring. The Summer Quarter is now an integral part of the school year. It offers exceptional opportunities to those who desire to accumulate extra credits and thus hasten graduation.

The opening dates for the 1926-27 year are as follows:

Fall Quarter opens September 27.

Winter Quarter opens January 3.

Spring Quarter opens March 21.

Summer Quarter opens June 13.

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An illustrated, descriptive circular dealing with the work of the various schools—Agriculture, Agricultural Engineering, Home Economics, Commerce, Mechanic Arts, Basic Arts and Science and Summer School—and with Student Activities is published. This is sent free upon request. Address the President's Office.

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