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Utah State
Agricultural College
BULLETIN



Catalogue Issue
1933-1934

33
Vol. 33

MAY, 1933

No. 3

PLEASE BRING THIS BULLETIN WITH YOU
WHEN YOU COME TO REGISTER

COLLEGE BULLETINS. Published by the Utah State Agricultural College, at Logan, Utah. Issued Bi-Monthly, Vol. 33, No. 3, May, 1933. 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.

Utah State
Agricultural College
Bulletin



Catalogue Issue
1933-1934



FORTY-FOURTH YEAR
With List of Students for 1932-1933



Published by the College
MAY, 1933
LOGAN, UTAH

1933

JANUARY							APRIL							JULY							OCTOBER											
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					
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1934

JANUARY							APRIL							JULY							OCTOBER												
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MARCH							JUNE							SEPTEMBER							DECEMBER												
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COLLEGE CALENDAR FOR THE YEAR 1933-34

FALL QUARTER

September 25, Monday.....	Registration of Freshmen.
September 26, Tuesday.....	Registration of Soph's, Jun's & Sen's.
September 27, Wednesday.....	Instruction begins.
September 28, Thursday.....	President's Assembly.
October 9, Monday.....	Honor Societies' Assembly.
October 16, Monday.....	Prospective graduates submit applications for candidacy.
October 18, Wed. (1 o'clock)....	Women's Assembly.
October 23, Monday.....	Last day for changing registration.
October 27, Friday.....	Fathers' and Mothers' Day Assembly.
November 27, Monday.....	Thanksgiving Assembly.
November 28, Tuesday Night....	Thanksgiving recess begins.
December 3, Monday.....	Instruction resumes.
December 20, Wednesday.....	Christmas Assembly.
December 21, Thursday Night....	Fall Quarter closes.

WINTER QUARTER

January 3, Wednesday.....	Registration.
January 4, Thursday.....	Instruction begins.
January 11, Thursday.....	Utah Extension Service Assembly.
January 12, Friday.....	Candidates submit applications for graduation.
January 17, Wed. (1 o'clock)....	Women's Assembly.
January 31, Wednesday.....	Last day for changing registration.
February 12, Monday.....	Lincoln's Birthday (holiday).
February 22, Thursday.....	Washington-Lincoln Assembly.
March 8, Thursday.....	Founders' Day Assembly.
March 16, Friday.....	Winter Quarter ends.

SPRING QUARTER

March 19, Monday.....	Registration.
March 20, Tuesday.....	Instruction begins.
March 30, Friday.....	Easter Assembly.
April 11, Wed. (1 o'clock).....	Womens Assembly.
April 16, Monday.....	Last day for changing registration.
May 11, Friday.....	Mothers' Day Assembly.
May 118, Friday.....	Scholarship Awards, Scholars' Banquet.
May 225, Friday.....	Senior Assembly.
May 330, Wednesday.....	Memorial Day (holiday).
May 331, Thursday.....	Sunset Festival.
June 11, Friday.....	Alumni Business Meeting
June 22, Saturday.....	Commencement, Alumni Reunion.
June 23, Sunday.....	Baccalaureate Sermon.

SUMMER SESSION

June 11, Monday.....	Summer Session begins.
July 20, Friday.....	Summer Session ends.

BOARD OF TRUSTEES

A. W. IVINS.....	Salt Lake City
C. G. ADNEY.....	Corinne
MRS. MINNIE W. MILLER.....	Salt Lake City
OLOF NELSON	Logan
FREDERICK P. CHAMP	Logan
JOSEPH B. WHITE.....	Paradise
FRANK B. STEPHENS.....	Salt Lake City
MRS. R. E. DORIUS.....	Salt Lake City
J. M. MACFARLANE.....	Cedar City
FRED M. NYE.....	Ogden
CLARENCE E. WRIGHT.....	Salt Lake City
P. H. MULCAHY.....	Ogden
MILTON H. WELLING, Secretary of State (ex-officio).....	Salt Lake City

OFFICERS OF BOARD

A. W. IVINS.....	President
C. G. ADNEY.....	Vice-President
RUSSELL E. BERTNSON.....	Secretary-Treasurer

STANDING COMMITTEES OF THE BOARD

- Executive Committee**—A. W. Ivins, C. G. Adney, Mrs. Minnie W. Miller, Frederick P. Champ, Aloy Nelson.
- Committee on Agriculture**—C. G. Adney, Mrs. Minnie W. Miller, J. M. Macfarlane, J. B. White.
- Committee on Mechanic Arts**—J. B. White, P. H. Mulcahy, Olof Nelson, Fred M. Nye.
- Committee on Engineering**—P. H. Mulcahy, C. E. Wright, Olof Nelson.
- Committee on Home Economics**—Mrs. R. E. Dorius, Frederick P. Champ, J. M. Macfarlane.
- Committee on Commerce**—Fred M. Nye, C. E. Wright, Mrs. R. E. Dorius.
- Committee on Arts and Science**—J. M. Macfarlane, Mrs. R. E. Dorius, P. H. Mulcahy.
- Committee on Education**—Fred M. Nye, J. M. Macfarlane, Frank B. Stephens.
- Committee on Experiment Station**—C. E. Wright, Mrs. R. E. Dorius, J. M. Macfarlane.
- Committee on Extension Division**—Frank B. Stephens, Mrs. Minnie W. Miller, C. G. Adney.
- Committee on Faculty and Course of Study**—Frederick P. Champ, Olof Nelson, J. B. White.
- Committee on Live Stock**—C. G. Adney, J. B. White, Mrs. Minnie W. Miller, P. H. Mulcahy.
- Committee on Buildings and Grounds**—Frederick P. Champ, Olof Nelson, J. B. White.
- Committee on Heat, Power and Light**—Olof Nelson, C. E. Wright, Milton H. Welling.
- Committee on Branch Agricultural College**—J. M. Macfarlane, Mrs. Minnie W. Miller, C. G. Adney, Milton H. Welling.
- Committee on Legislation and Finance**—Mrs. Minnie W. Miller, Frederick P. Champ, Fred M. Nye, Frank B. Stephens.

OFFICERS OF ADMINISTRATION

(Arranged in the order of seniority of appointment)

- ELMER GEORGE PETERSON, B. S., A. M., Ph. D.
President
- WILLIAM PETERSON, B. S.
Director, Extension Division.
- FRANKLIN LORENZO WEST, B. S., Ph. D.
Dean of the Faculty.
- RAY BENEDICT WEST, B. S., C. E., C. E.
Dean, School of Engineering and Mechanic Arts
- JAMES HENRY LINFORD, B. S., D. Did
Director of Summer Session.
- NEILS ALVIN PEDERSEN, A. M., Ph. D.
Dean, School of Arts and Sciences.
- WILLIAM LAWRENCE WANLASS, A. M., Ph. D.
Dean, School of Commerce.
- PHILIP VINCENT CARDON, B. S., M. S.
Director, Experiment Station.
- EDWARD JACKSON MAYNARD, B. S., M. S.
Dean, Schools of Agriculture and Forestry
- ERNEST A. JACOBSEN, A. M., Ed. D.
Acting Dean, School of Education.
- CHRISTINE BOCKHOLT CLAYTON, B. S., M. S.
Dean, School of Home Economics.
- CAROLINE M. HENDRICKS, B. S., M. S.
Women's Adviser.
- RUSSELL ELWOOD BERNTSON
Executive Secretary and Treasurer.
- JOHN THOMAS CAINE, B. S.
Auditor.
- WILLIAM H. BELL, B. S., M. S.
Registrar.
- C. LESTER POCOCK, B. S.
In Charge Information Service.
- HATTIE SMITH
Assistant Librarian.

OFFICERS OF INSTRUCTION

(Arranged alphabetically. The numerals in parentheses following the title indicate the year in which the present rank was conferred.)

- BYRON ALDER, B. S.
Professor of Poultry Husbandry (27).
- FRANK RUSSELL ARNOLD, A. B., A. M.
Professor of Modern Languages (06).
- REED W. BAILEY, B. S., M. S.
Associate Professor of Geology (31).
- ELSA BROWN BATE, B. S., M. S.
Assistant Professor of Child Development (31).

- RAYMOND J. BECRAFT, B. S., M. S.
*Associate Professor of Range Management in the School of Forestry
 and Related Resources (28).*
- AARON F. BRACKEN, B. S., M. A.
Assistant Professor of Agronomy (24).
- ASA BULLEN, B. S., LL. B.
Lecturer in Commercial Law (17).
- GEORGE BALLIF CAINE, B. S., M. A.
Professor of Dairy Husbandry (20).
- *KATHERINE COOPER CARLISLE, B. S.
Associate Professor of Physical Education for Women (28).
- EZRA G. CARTER, M. S., D. P. H.
Professor of Public Health and Physiology (27).
- N. WOODRUFF CHRISTIANSEN, B. S.
Assistant Professor of Instrumental Music (30).
- CHRISTINE BOCKHOLT CLAYTON, B. S., M. S.
Professor of Foods and Dietetics (28).
- GEORGE DEWEY CLYDE, B. S., M. S.
Professor of Engineering (33).
- FRANCIS M. COE, B. S., M. S.
Assistant Professor of Horticulture (27).
- *FRANKLIN DAVID DAINES, A. B., A. M., Ph. D.
Professor of Political Science (17).
- CHARLOTTE E. DANCY, R. N, Johns Hopkins Hospital.
Assistant Professor of Physiology and Nursing (21).
- PAUL M. DUNN, M. S.
Extension Forester, and Associate Professor of Forestry (33).
- SAMUEL ROY EGBERT, B. S.
Assistant Professor of Forging (21).
- ALMA ESPLIN, B. S.
*Assistant Professor of Wool Management in the Department of Animal
 Husbandry (25).*
- ROBERT J. EVANS, Ph. D.
Professor of Agronomy (31).
- CALVIN FLETCHER, B. Pd.
Professor of Art (13).
- THELMA FOGELBERG, B. S., A. M.
Assistant Professor of Stenography and Business Practice (33).
- HYRUM JOHN FREDERICK, D. V. M.
Professor of Veterinary Science (06).
- WALTER U. FUHRIMAN, B. S., M. S.
Associate Professor of Agricultural Economics (33).
- WILLARD GARDNER, M. S., Ph. D.
Professor of Physics (24).
- VERNAL DELROY GARDNER, B. S., M. B. A.
Associate Professor of Business Administration (32).
- JOSEPH ARCH GEDDES, A. M., Ph. D.
Professor of Sociology (28).

*On leave.

- WALTER R. GOODRICH, Captain, C. A. C.
Assistant Professor of Military Science and Tactics (31).
- JOSEPH EAMES GREAVES, M. S., Ph. D.
Professor of Bacteriology and Bio-Chemistry (13).
- WILLIAM WILLIAMS HENDERSON, A. M., Ph. D.
Professor of Zoology and Entomology (26).
- CAROLINE M. HENDRICKS, B. S., M. S.
Assistant Professor of Sociology (30).
- REUBEN LORENZO HILL, B. S., Ph. D.
Professor of Chemistry (19).
- CHARLES TERRY HIRST, B. A., M. S.
Associate Professor of Chemistry (24).
- LEGRANDE R. HUMPHREYS, B. S.
State Supervisor of Vocational Agriculture (26).
- ORSON WINSO ISRAELSEN, M. S., Ph. D.
Professor of Irrigation and Drainage (19).
- ERNEST A. JACOBSEN, A. B., A. M., Ed.D.
Professor of Education (33).
- JOSEPH R. JENSON, A. B., M. A.
Associate Professor of Physical Education (25).
- GEORGE C. JENSEN, A. M.
Associate Professor of Modern Languages (33).
- FRANCES KELLY, B. S., M. S.
Assistant Professor of Foods and Superintendent of Practice Cottage (33).
- HAROLD R. KEPNER, A. B., B. S., C. E., M. S.
Assistant Professor of Engineering (30).
- MARSHALL D. KETCHUM, B. S., M. S.
Assistant Professor of Economics (32).
- CHARLOTTE KYLE, B. A., M. A.,
Assistant Professor of English (16).
- LEON B. LINFORD, B. S., Ph. D.
Associate Professor of Mathematics (32).
- DAVID E. MADSEN, D. V. M.
Professor of Veterinary Science (33).
- SHERWIN MAESER, A. B., Ph. D.
Professor of Chemistry (32).
- BASSETT MAGUIRE, B. S.,
Assistant Professor of Botany (32).
- EDWARD JACKSON MAYNARD, B. S., M. S.
Professor of Animal Husbandry (31).
- MILTON R. MERRILL, B. S., M. A.
Assistant Professor of History (30).
- CHARLES E. MCCLELLAN, A. B., M. A.
Associate Professor of Education (33).
- JOHANNA MOEN, B. S.
Professor of Textiles and Clothing (20).
- ARTHUR J. MORRIS, B. S., M. S.
Assistant Professor of Dairy Manufacturing (31).

- CHESTER J. MYERS, A. B., A. M.
Assistant Professor of Speech (29).
- AARON NEWNEY, B. S.
Associate Professor of Machine Work (17).
- NEILS ALVIN PEDERSEN, A. M., Ph. D.
Professor of English and Speech (13).
- WILLIAM PETERSON, B. S.
Professor of Geology (06).
- PARLEY ERASTUS PETERSON, A. B., C. P. A.
Professor of Accounting (13).
- HENRY PETERSON, A. B., A. M.
Professor of Psychology (21).
- DON WARREN PITTMAN, B. S., M. S.
Professor of Soils in the Department of Agronomy (24).
- JOHN H. PITZER, LIEUTENANT, C. A. C.
Assistant Professor of Military Science and Tactics (30).
- ALFRED H. POWELL
Associate Professor of Farm and Auto Mechanics (20).
- WILLIAM BOWKER PRESTON, M. D.
Professor of Physiology (29), *Health Supervisor of Students* (20).
- HARRY R. REYNOLDS, Graduate of Chicago Art Institute
Assistant Professor of Art (30).
- BERT LORIN RICHARDS, M. S., Ph. D.
Professor of Botany and Plant Pathology (24).
- JOEL EDWARD RICKS, A. B., A. M., Ph. D.
Professor of History (22).
- E. LOWELL ROMNEY, A. B.
Director of Athletics (19).
- HARRY H. SMITH, B. S., M. S.
Associate Professor of Animal Husbandry (33).
- ALMA NICHOLAS SORENSEN, A. B., A. M.
Associate Professor of English (28).
- J. SEDLEY STANFORD, B. S., Ph. D.
Assistant Professor of Zoology and Entomology (30).
- KENNETH R. STEVENS, B. S., Ph. D.
Assistant Professor of Bacteriology (33).
- SIDNEY STOCK, B. S.
Assistant Professor of Farm and Auto Mechanics (26).
- DAN ARTHUR SWENSON, B. S.
Assistant Professor of Woodwork (26).
- THORNTON G. TAYLOR, M. F.
Professor of Forestry (29).
- DELMAR C. TINGEY, B. S., M. A.
Assistant Professor of Agronomy (27).
- VANCE H. TINGEY, B. S., M. S.
Assistant Professor of Mathematics (33).
- W. PRESTON THOMAS, M. S.
Professor of Agricultural Economics (29).
- FANNIE MAUGHAN VERNON
Assistant Professor of English Extension (26).

- WALLACE J. VICKERS, A. M., Ph. D.
Associate Professor of English (26).
- CARR W. WALLER, Colonel C. A. C.
Professor of Military Science and Tactics (30).
- F. B. WANN, A. B., Ph. D.
Associate Professor of Plant Physiology (26).
- WILLIAM LAWRENCE WANLASS, A. M., Ph. D.
Professor of Economics (20).
- WALTER WELTI, B. A.
Assistant Professor of Vocal Music (26).
- FRANKLIN LORENZO WEST, B. S., Ph. D.
Professor of Physics (08).
- RAY BENEDICT WEST, B. S., C. E., C. E.
Professor of Engineering (13).
- ALMA L. WILSON, B. S., M. S., Ph. D.
Associate Professor of Horticulture and Gardening (33).

INSTRUCTORS

- GEORGE S. BATES, B. S., M. A.
Instructor in Education (29).
- JOHN CROFT, B. S.
Assistant Coach.
- ALTA ORSER CROCKETT, B. S.
Instructor in Textiles and Clothing (30).
- H. H. CUTLER, B. S.
Instructor in Economics (33).
- WALLACE A. GOATES, B. A., M. S.
Instructor in Speech (31).
- ALVIN HESS, B. S., M. S.
Instructor in Education (20).
- L. MARK NEUBERGER, B. S.
Instructor in Business and Office Practice (32).
- HATTIE SMITH
Assistant Librarian.

ASSISTANTS

- ALLIE BURGOYNE, B. S.
Assistant Registrar.
- VERA CARLSON
Secretary to the President.
- BERT L. DRYDEN, B. S., M. S.
Assistant in Animal Husbandry.
- GENEVA SCHAUB GRACE, B. S.
Assistant in Physical Education for Women.
- AUGUST J. HANSEN, B. S.
Assistant in Library.
- ERIC A. JOHNSON, B. S.
Assistant Secretary.
- GEORGE NELSON
Trainer and Wrestling Coach.
- MARY SORENSON
Assistant Librarian

CHARLES BATT

Superintendent of Water and Heating.

RASMUS OLUF LARSON

Superintendent of Buildings and Grounds

O. W. COOLEY, *Chef*

STANDING COMMITTEES

1933-34

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

Advanced Standing—Mr. Bell.

Attendance and Scholarship—Professors W. W. Henderson, Dancy, Becraft, Hill, Willard Gardner, V. H. Tingey, Professor of Military Science, Mr. Bell.

Athletic Council—Professors A. N. Sorensen, George B. Caine, E. L. Romney, Mr. R. E. Berntson.

Awards and Honors—Professors Wanlass, Linford, Moen, R. B. West.

Boy Scout Activity—Professors Fletcher, Richards.

Campus Improvement—Professors Cardon, Clyde, Fletcher, Mr. R. O. Larson.

Certification of Teachers—Professors Jacobsen, McClellan, Mr. Bell.

College Assemblies—Professors N. A. Pedersen, W. W. Henderson, Mrs. Hendricks.

Credits from Sectarian Institutions—Professor Kepner, Mr. Bell.

Curriculum—Professors Maeser, Alder.

Entrance—Professors Hirst, Egbert.

Exhibits—Professors R. B. West, Alder, Moen, A. J. Hansen, Merrill.

Graduate Work—Professors F. L. West, William Peterson, Greaves, Evans, P. E. Peterson, Mr. Bell.

Graduation—Professors Maeser, P. E. Peterson, Mr. Bell.

High School Relations Committee—Mr. C. Lester Pocock, Professors Bailey, V. D. Gardner, L. R. Humphreys, Mr. D. P. Murray.

Incomplete Grades—Professor Ricks.

Library—Professors R. B. West, Merrill, Arnold, Miss Smith.

Loan Fund—Mr. Berntson, Professors Maynard, Dancy.

Radio Programs—Messrs. Pocock, Burgoyne, Porter.

Rhodes Scholarship—Professors Arnold, Sorensen, Maeser.

Recommendation for Employment—Professors R. B. West, Maynard.

Sectioning Committee—Professors Ketchum, Carter, Kyle.

Schedule and Catalogue—Professors Kepner, Sorensen, Mr. Bell.

Social Affairs—Professors Jos. R. Jenson, V. D. Gardner, Maynard, Dancy, Mrs. Hendricks, Miss Carlson, President of Student Body, President of A. W. S.

Student Body Organization—Professors A. N. Sorensen, Jacobsen, V. D. Gardner.

Student Employment—Mr. Pocock.

NORMAL TRAINING SCHOOL STAFF

1933-34

ERNEST A. JACOBSEN, A. B., A. M., Ed. D.
Acting Dean, School of Education

CHARLES E. McCLELLAN, A. B., M. A.
Director of Teacher Training

EDITH BOWEN, B. A., M. A.
Supervisor of Training School

LENORE LEWIS, B. S.
In Charge of Sixth Grade

THELMA GARFF
In Charge of Fifth Grade

WANDA ROBERTSON
In Charge of Fourth Grade

LORENE K. FOX, B. A.
In Charge of Third Grade

ADDIE SWAPP, B. S.
In Charge of Second Grade

HELEN ROBERTS
In Charge of First Grade

EMMA ECCLES JONES, M. A.
In Charge of Kindergarten

EXPERIMENT STATION STAFF

1933-34

PHILIP VINCENT CARDON, M. S.
Director

HYRUM JOHN FREDERICK, D. V. M.
Veterinarian

JOSEPH EAMES GREAVES, Ph. D.
Chemist and Bacteriologist

GEORGE BALLIF CAINE, A. M.
Dairy Husbandman

REUBEN LORENZO HILL, Ph. D.
Human Nutritionist

ORSON WINSO ISRAELSEN, Ph. D.
Irrigation and Drainage Engineer

BYRON ALDER, B. S.
Poultry Husbandman

DAVID STOUT JENNINGS, Ph. D.
In Charge, Soils Investigations

WILLARD GARDNER, Ph. D.
Physicist

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

WILLIAM WILLIAMS HENDERSON, Ph. D.
Entomologist

W. PRESTON THOMAS, M. S.
Agricultural Economist

ROBERT JAMES EVANS, Ph. D.
Agronomist

EDWARD JACKSON MAYNARD, M. S.
Animal Husbandman

DAVID EDWARD MADSEN, D. V. M.
Animal Pathologist

H. LORAN BLOOD, Ph. D.
Plant Pathologist

GEORGE DEWEY CLYDE, M. S.
Irrigation and Drainage Engineer

CHARLES TERRY HIRST, M. S.
Associate Chemist

DON WARREN PITTMAN, M. S.
Associate Agronomist

FRANK B. WANN, Ph. D.
Associate Plant Physiologist

JOSEPH ARCH GEDDES, Ph. D.
Associate Rural Sociologist

RAYMOND J. BECRAFT, M. S.
Associate in Range Management

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

CHARLES J. SORENSON, M. S.
Associate Entomologist

GEORGE FRANKLIN KNOWLTON, Ph. D.
Associate Entomologist

A. L. WILSON, Ph. D.
Associate Horticulturist

AARON F. BRACKEN, M. S.
Assistant Agronomist and
Supt., Nephi Dry-farm Substation

DELMAR CLIVE TINGEY, M. S.
Assistant Agronomist

ALMEDA PERRY BROWN, M. A.
Assistant Home Economist

FRANCIS M. COE, M. S.
Assistant Horticulturist

HARRY H. SMITH, M. S.
Assistant Animal Husbandman

GEORGE Q. BATEMAN, B. S.
Assistant Dairy Husbandman and
Supt., Dairy Experimental Farm

JOHN W. CARLSON, M. Agr.
Assistant Agronomist and
Supt., Uintah Basin Substation

BENJAMIN F. HULME, B. S.
Assistant Animal Husbandman and
Supt., Panguitch Livestock Substation

I. DELOS ZOBELL, M. S.
Assistant Agronomist and
Supt., Carbon County Substation

LEMOYNE WILSON, M. S.
Assistant Agronomist and Supt., Sanpete County Substation

JAMES H. EAGER, B. S.
Assistant Agronomist and
Supt., San Juan County Substation

UTAH STATE AGRICULTURAL COLLEGE

KENNETH R. STEVENS, Ph. D.
Assistant Bacteriologist

BLANCHE CONDIT PITTMAN, A. B.
Librarian and in Charge, Editorial and
Publications Division

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Secretary to the Director

RUSSELL E. BERNTSON
Secretary-Treasurer

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Research Assistant

MAIDA MUIR, B. S.
Stenographer

GEORGE WHORNHAM, M. S.
Assistant Field Agronomist

In Cooperation with U. S. Department of Agriculture

LUTHER MURKINS WINSOR, M. S.
Irrigation Engineer, Division of Irrigation
Bureau of Agricultural Engineering

H. LORAN BLOOD, Ph. D.
Plant Pathologist, Division of Horticultural Crops and Diseases
Bureau of Plant Industry

GEORGE Q. BATEMAN, B. S.
Agent, Bureau of Dairying

ROLLO M. WOODWARD, M. S.
Junior Agronomist, Cereal Investigations
Bureau of Plant Industry

WESLEY KELLER, M. S.
Agent, Sugar Beet Investigations
Bureau of Plant Investigations

EXTENSION SERVICE STAFF

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WILLIAM WHITE OWENS, B. S., M. A.
Assistant Director for Agriculture

RENA BAKER MAYCOCK
Assistant Director for Home Economics

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

BYRON ALDER, B. S.
Extension Poultryman

ELLEN AGREN, B. S.
Extension Specialist in Clothing

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

ALMA C. ESPLIN, B. S.
Extension Animal Husbandman, Sheep and Wool

EFFIE SMITH BARROWS, B. S.
Extension Economist, Home Management

ELNA MILLER, B. S., M. S.
Extension Nutritionist

E. J. MAYNARD, B. S., M. S.
Extension Animal Husbandman

GEORGE B. CAINE, B. S., A. M.
Extension Dairyman

W. P. THOMAS, B. S., M. S.
Extension Economist

MYRTLE DAVIDSON, B. S.
Asst. State Boys' and Girls' Club Specialist

C. O. STOTT, B. S.
Extension Economist, Farm Management

CARL FRISCHKNECHT, B. S., M. S.
Assistant Extension Poultryman

MRS. LOTTIE K. ESPLIN, B. S., M. A.
Home Reading Specialist

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

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

LYMAN H. RICH, B. S., M. S.
Asst. Professor, County Extension Agent, Utah County

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

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

CLYDE R. RICHARDS, B. S.
Assistant Professor, County Extension Agent, Morgan County

IVY LOWRY HALL, B. S.
Asst. Prof. Home Demonstration Agent, Salt Lake and Summit Counties

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

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

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Assistant Professor, County Extension Agent, Wasatch County

A. G. KILBURN, B. S.
Assistant Professor, County Extension Agent, Tooele County

IZOLA D. JENSEN, B. S.
Assistant Professor, District Agent, Cache and Box Elder Counties

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

ANSON B. CALL, JR., B. S., M. S.
Assistant County Extension Agent, Utah County

ALICE E. PEDERSEN, B. S.
Assistant Prof., District Extension Agent, Uintah and Duchesne Counties

C. A. HYMAS, B. S.
Assistant Professor, County Extension Agent, Piute and Garfield Counties

RUBY STRINGHAM, B. S.
Assistant Professor, Home Demonstration Extension Agent, Davis County

E. L. GUYMON, B. S., M. S.
Assistant Professor, County Extension Agent, Rich County

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AMY J. LEIGH, B. S.

Asst. Prof., Home Demonstration Agent, Utah County

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Asst. Prof., District Home Demonstration Agent, Morgan and
Summit Counties

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Secretary to Director and Extension Editor

IDA R. MITCHELL
Clerk

MARY HANSEN
Stenographer

J. H. Clark, Jr.
 American Petroleum Corporation, 1000 Broadway, New York
 New York, N. Y.
 The Honorable J. H. Clark, Jr.
 American Petroleum Corporation, 1000 Broadway, New York
 New York, N. Y.

J. H. Clark, Jr.
 Secretary to Director and Treasurer, Clark

J. H. Clark, Jr.
 Clerk

J. H. Clark, Jr.
 Secretary

County

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Utah State Agricultural College

The Utah State Agricultural College 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 bus 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 Utah State Agricultural College 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, music, speech, 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 Utah State Agricultural College is to be of service in the upbuilding of the State and the great West to which it belongs. The instruction in agriculture and engineering, in addition to the purely professional aspects of these fields of study, deals with the special problems relating to the conquest of the great areas of unoccupied lands, the development of engineering structures, 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 Constitution of Utah establishes the Utah State Agricultural College and the University of Utah as the two public institutions of higher learning in Utah. Each of these institutions is independent in government, although each is a part of the public school system. Each, under the Constitution and the statutes of Utah and in harmony with the rulings of its respective governing board, offers undergraduate and graduate work leading to the Bachelor's and Master's degrees. The College, in addition to this high status given it in Utah under the Constitution, is one of the forty-eight institutions in the United States definitely recognized by the Federal Government as the institution of higher learning in the respective states for the development of the Federal program of education included in the Morrill and Nelson Acts of the Federal Congress.

HISTORY

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

Under the Hatch Act, approved in 1887, the State receives \$15,000 annually for the Experiment Station. Under the Adams Act of 1906, the State receives an additional \$15,000 annually for research work by the Experiment Station. Under the Morrill Act of 1890, amended by the Nelson Act of 1907, the State receives \$50,000 annually for instruction at the Agricultural College. Under the 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 received in 1928-29 an appropriation of \$50,000, 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 for instruction, experimentation, and extension work.

Special maintenance appropriations are made by the legislature for general support, and for buildings. The State, moreover, provides additional revenue for extension purposes and experimental work.

In September, 1890, the Institution was opened for the admission of students. Degree courses were offered in agriculture, domestic art, 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. 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 1927 the divisions of instruction were established as follows: The School of Agriculture, the School of Engineering, the School of Home Economics, the School of Commerce, the School of Arts and Science, and the School of Education.

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

In 1926, the College was admitted to the accepted list of the Association of American Universities.

In 1929, the State Legislature codified the laws of the State relating to the College, and changed the name to Utah State Agricultural College.

In 1931 the department of Child Development was added to the School of Home Economics.

GOVERNMENT

The government of the College is vested 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 offices 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 and Forestry, Education, Home Economics, Engineering, Commerce, and Arts and Science, and the Dean of the Faculty, the Director of the Summer Session, and the Directors of the Experiment Station and the Extension Service. 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 which is advisory to the President, consists of the Deans of the six Schools and the Executive Secretary of the Institution, the Dean of the faculty being chairman of the Committee. In all budget matters involving the Experiment Station or Extension Service, the respective Directors become members of the Budget Committee.

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 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 of departments and their associates and assistants. The staff is engaged in the investigation of problems peculiar to agriculture and rural welfare in this part of the country. It is further responsible for the circulation, through its various publications and correspondence, of such information as is of practical value to the farming communities.

THE EXTENSION SERVICE consists of the President of the College, the Director of the Extension Service, and the various Specialists, County Agents, and Home Demonstrators.

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.

DIVISIONS OF THE COLLEGE

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 Research 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:

I. The College Proper.

The Schools of Agriculture and Forestry.

The School of Arts and Science.

The School of Commerce.

The School of Education.

The School of Engineering.

The School of Home Economics.

The Summer Session.

II. Research.

Experiment Station.

III. Extension.

The Extension Service.

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.

THE SCHOOLS OF AGRICULTURE AND FORESTRY

E. J. MAYNARD, Dean

Agriculture is and will always remain a fundamental industry. Its many problems today challenge the best minds and thought of the country.

A sound knowledge of the scientific principles of agriculture and a training in farming and husbandry practices are both essential for those who desire to have a hand in the development of a progressive agricultural program for the future. The Utah State Agricultural College is admirably equipped to teach both practical and scientific agriculture and forestry, and to train its graduates for the efficient management of farms and ranches, for technical positions with the State and Federal Departments of Agriculture, and for other agricultural positions of trust and responsibility, including those in extension and investigational work. The college farm, dairy manufacturing plant, experimental livestock feeding plants, plant breeding plots, gardens, orchards, and technical equipment offer the best possible opportunity for study and experience.

Outstanding representatives of the principal livestock and poultry breeds best adapted to Utah are available for study.

Agriculture as never before needs clear thinkers and energetic leaders in its many fields of endeavor and this school is equipped and prepared for their necessary training.

Forestry and Range Management as handled in the School of Forestry are professional courses dealing with the resources of wild lands. In the near future it is planned to add to the existing curricula a course in Game Management, because of the importance of this field in the Intermountain region.

Native crops areas in Utah are concerned with about 83 per cent of the total area of this state. The comparative newness of the field and the need of proper management of the greater part of the wild lands of Utah offer opportunities for those who are interested in participating in the management of such areas so that they may be handled to give the best results not only for present but for future generations of citizens.

ADMISSION

See statements of entrance requirements of the college on page 59.

Students who expect to become candidates for the Bachelor's degree are reminded that they should complete the requirements of the Junior College before they will be allowed to enter the Senior College. Read carefully the statements regarding Junior College and Senior College found on pages 61, 62.

GENERAL REQUIREMENTS FOR GRADUATION

Candidates for the Bachelor of Science degree must meet in full all entrance requirements and present 180 quarter hours of College work as outlined below (exclusive of the required courses in Physical Education).

THE FOUR BASIC GROUPS

The candidate must include work in each of the four basic groups as follows:

Language Group: 18 hours (English, Modern Languages, Speech). Must include English 10, 11 unless excused by the English Department.

Social Science Group: 12 hours (History, Economics, Political Science, Sociology, Agricultural Economics).

Biological Science Group: 12 hours (Botany, Zoology, Public Health, Bacteriology, Physiology).

Exact Science Group: 12 hours (Chemistry, Physics, Mathematics, Geology, Accounting 101, 102, 103).

MAJOR SUBJECT

Every student, at the time he enters the Senior College, must select a major subject in which at the time of graduation he must have completed from 30 to 40 quarters hours of work. The student should consult with the professor in charge of his major work, and must secure the approval of the proposed combination of courses. (Read page 62.)

In the School of Agriculture, students may major in the following departments: Agricultural Economics, Agronomy, Animal Husbandry, Agricultural Bacteriology, Botany and Plant Pathology, Agricultural Chemistry, Dairy Husbandry, Dairy Manufacturing, Entomology, Forestry and Range Management, Horticulture, Poultry Husbandry, Veterinary Science.

MINOR SUBJECTS

From eighteen to thirty hours in fields of work closely related to the major subject will be chosen by the candidate with the advice and consent of the major department and the Dean of the School. (See page 62.)

SENIOR COLLEGE WORK

Fifty-four (54) hours of Senior College work taken after the candidate has completed at least 90 hours of work must be presented by each candidate for the B. S. degree. (See page 62 for a definition of Senior College work.)

RESIDENCE, SCHOLARSHIP, ETC.

See page 63 for requirements for graduation.

OUTLINE OF COURSE LEADING TO THE B. S. DEGREE IN AGRICULTURE

During the first two years in college the student in Agriculture should accomplish his basic science work and obtain a general view of the field of Agriculture. This will facilitate the wise selection of major and minor work on entering the senior college.

The work of the first two years is similar for all departments in the school. The general outline listed below will be required for all junior college students desiring the B. S. degree in Agriculture.

Required of Students Desiring B. S. Degree in Agriculture

FRESHMAN

	F.	W.	S.
Math. 34 or 35.....	5		
Botany 1, 2.....	3	3	
Zoology 1.....		5	
Physics 1.....			5
English 10.....			5
Sociology 70.....			3

SOPHOMORE

	F.	W.	S.
Chemistry 10, 11, 12*.....	5	5	5
Economics 51.....	5		
Ag. Economics 53.....		3	or 3
English 11.....			4
Agronomy 6.....		4	

Basic courses listed above required of all students in School of Agriculture, except by special arrangement with Dean of school.

Six orientation courses in Agriculture required during Freshman and Sophomore years, including Animal Husbandry 1, Agronomy 1 and four of the following courses: Dairy 1, Poultry 2, Vet. Science 10, Hort. 1, Hort 4. Not more than two orientation courses may be taken in any one quarter.

*Students may take Chemistry 3, 4, and 5 with approval of Chemistry Department.

The student will consult his major professor in arranging his course of study for the Junior and Senior years.

TEACHER'S PROFESSIONAL HIGH SCHOOL CERTIFICATE

Arrangements have been made with the School of Education to provide candidates for the Bachelor of Science degree in Agriculture with the necessary professional educational courses to qualify them for the Teacher's Professional high school certificate in Utah. The requirements to teach agriculture in the several states are substantially the same, but students desiring to teach in any specific states should confer with the Dean of the School of Education. In general, students who desire to teach agriculture should secure basic courses in agriculture and related work with the view of having foundational work in the major enterprises of the state.

During the junior and senior years the students should plan to complete the requirements in Education in addition to meeting the regular group requirements for graduation. For more detailed information concerning the preparation for teaching agriculture, consult the Deans of the Schools of Agriculture and Education.

THE SCHOOL OF ARTS AND SCIENCE

N. A. PEDERSEN, Dean

Since its foundation the Utah State Agricultural College has offered strong courses in the Sciences and also in the Arts, to carry out the technical work of the Schools of Agriculture, Home Economics, Commerce, Education, and Engineering, and to assure to these students a liberal education and training for efficient citizenship.

An efficient instructing force and complete modern equipment have been provided in the natural and physical sciences, as well as in English and Speech, Mathematics, History, and Languages. 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, constituting the School of Arts and Science and, paralleling the other degree courses of the College, lead to the degree of Bachelor of Science.

ADMISSION

See statement of entrance requirements of the College on page 59.

Students who expect to become candidates for the Bachelor's degree are reminded that they should complete the requirements of the Junior College before they will be allowed to enter the Senior College. Read carefully the statements regarding "Junior College" and "Senior College" found on pages 61, 62.

GENERAL REQUIREMENTS FOR GRADUATION

Candidates for the Bachelor of Science Degree must meet in full all entrance requirements and present 180 quarter hours of College work as outlined below (exclusive of the required courses in Physical Education or Military Science).

THE FOUR BASIC GROUPS

The candidate must include work in each of the four basic groups as follows:

Language Group: 18 hours (English, Modern Languages, Speech). Must include English 10, 11, unless excused by the English Department.

Social Science Group: 12 hours (History, Economics, Political Science, Sociology).

Biological Science Group: 12 hours (Botany, Zoology, Public Health, Bacteriology, Physiology).

Exact Science Group: 12 hours (Chemistry, Physics, Mathematics, Geology, Accounting 101, 102, 103).

MAJOR SUBJECT

Every student, at the time he enters the Senior College, must select a major subject in which at the time of graduation he must have completed at least 30 quarter hours of work. The student should consult with the professor in charge of his major work, and must secure his approval of the proposed combination of courses. (See page 62.)

In the School of Arts and Science, students may major in the following departments: Bacteriology and Bio-Chemistry, Chemistry, English, Speech, Geology, History, Mathematics, Modern Languages, Physics, Physiology and Public Health, Zoology and Entomology.

MINOR SUBJECTS

From eighteen to thirty hours in some field of work closely related to the major subject will be chosen by the candidate with the advice and consent of the major department and the Dean of the School. (See page 62.)

SENIOR COLLEGE WORK

Fifty-four (54) hours of Senior College work taken after the candidate has completed at least 90 hours of work must be presented by each candidate for the B. S. degree. See page 62 for a definition of Senior College work.

RESIDENCE, SCHOLARSHIP, ETC

See page 63 for requirements for graduation.

OUTLINE OF THE FOUR-YEAR COURSE LEADING TO THE B. S. DEGREE

First Year

Second Year

Language Group, including	Language Group, including
English 10 9	English 11 9
Social Science 6	Social Science 6
*Biol. or Exact Science.....12	*Biol. or Exact Science.....12
Electives .....18 to 24	Electives .....18 to 24

The electives should include at least fifteen hours in the proposed major.

*Biological or Exact Science should be chosen so that the candidate has at least 12 hours in each of the two groups.

Junior and Senior Years

During the third and fourth years the student should complete his major and minor subjects and any related work prescribed by the Dean or Major Department. See page 62 for these requirements.

THE B. S. DEGREE IN ARTS AND SCIENCE WITH HIGH SCHOOL TEACHER'S RECOMMENDATION

It is a decided advantage to candidates for the High School Teacher's Certificate to hold the standard Bachelor's degree in Arts and Science if their major work is in this field. Arrangements have been made with the School of Education to provide candidates for the Bachelor of Science degree in Arts and Science with the necessary professional courses to qualify them for the Teacher's Professional High School Certificate. The High School Teacher's recommendation is given by the College, and the Professional High School Certificate is awarded by the State Board of Education, to those who include the following courses along with those presented for the B. S. degree:

The candidate must present 27 hours of Professional Educational subjects, which shall include Psychology 102 or equivalent, and Education 111, 115, and 121, or their equivalents. The candidate's Biological Science group must include Health Education 108 or 109; and the Social Science group shall include 10 hours in Ethics and Sociology, or 5 hours in one of these subjects and 5 hours in Political Science or Economics.

Graduates of Standard Normal Courses, or those who have had one or more years of successful teaching experience, may have some of these requirements waived. Consult the Dean in regard to this matter.

Candidates for the Bachelor's degree with the High School Teacher's recommendation will be allowed to use the 27 hours of professional education credits as desirable related work mentioned in the requirement for the major subject. (See page 62.)

OUTLINE OF THE FOUR-YEAR COURSE LEADING TO THE B. S. DEGREE AND THE TEACHER'S PROFESSIONAL HIGH SCHOOL CERTIFICATE

The first two years of this course will be the same as for the B. S. degree previously outlined, except that the candidate should elect in the Social Science and Biological Science groups the particular course mentioned in the preceding paragraph.

Junior and Senior Years

During the third and fourth years the student should complete his major and minor work as outlined for the B. S. degree, and for his related work include the following:

Junior Year	
Psychology 101 and 102.....	6 hours
Education 111 and 121.....	6 hours
Senior Year	
Training and Methods (Education 114-115).....	11 hours
Psychology or Education	4 hours

PRE-MEDICAL CURRICULUM AND THE BACHELOR OF SCIENCE DEGREE

The Utah State Agricultural College is on the accredited list of the Association of American Universities, and also on the approved list of the Council on Medical Education. The College offers the following three-year preparatory course, which meets the requirements for entrance to practically all Class A medical schools in the United States.

Candidates desiring admission to the Pre-medical course should offer the usual entrance subjects. Such candidates are strongly advised to present two or three units of some one foreign language, preferably French or German. This will materially reduce the amount of college work necessary in language, and thereby increase the student's electives.

Candidates are reminded that the mere completion of a prescribed course of study does not guarantee admission to any Class A medical school. The better medical schools find it necessary to limit the number of students who are admitted to their classes, and they select only those applicants who show the most promise and who have the better preparation and scholarship.

PRE-MEDICAL COURSE BASED ON THE REQUIREMENTS OF THE UNIVERSITY OF UTAH SCHOOL OF MEDICINE

*FRESHMAN YEAR

Name of Course	Dept. No.	Quarter Credits		
		I	II	III
English, Including Freshman Composition .....		..	3	5
Inorganic Chemistry.....	Chemistry 3, 4, 5.....	5	5	5
General Zoology	Zoology 3, 4.....	5	5	..
General Botany.....	Botany 1 .....	..	..	5
Social Science		5	3	..
Total		15	16	15

*Physical Education or Military Science is required of all students during the Freshman and Sophomore years.

SOPHOMORE YEAR

Name of Course	Dept. No.	Quarter Credits		
		I	II	III
Organic Chemistry	Chemistry 21, 22.....	5	5	..
Quantitative Analysis	Chemistry 102, 103.....	..	3	3
First Year French or.....	French 1, 2, 3, or.....	..	..	..
First Year German.....	German 1, 2, 3.....	5	5	5
Mathematics	Math. 35	5	..	..
English, Including Sophomore Composition .....		..	4	6
Total		15	17	14

JUNIOR YEAR

Name of Course	Dept. No.	Quarter Credits		
		I	II	III
General Physics	Physics 20, 21, 22.....	5	5	5
2nd Year French or German.....	French or German.....	3	3	3
General Psychology.....	Psychology 101	3	--	--
Zoology	Zoology 117-118-119 ..	3	3	3
*Elective including 2 hours in French or German.....		3	6	6
Total		17	17	17

*Should be taken to prepare for major work if student intends to remain and finish for his B. S. degree.

BACHELOR OF SCIENCE DEGREE

Students who complete the foregoing three-year medical course, and register in a Class A medical school and successfully complete the first year of work prescribed in such school, will be awarded the Bachelor of Science degree in the School of Arts and Science at the Utah State Agricultural College, upon presenting satisfactory evidence that the work has been completed with a reasonably high standard of achievement. The foregoing schedule meets in full the requirements for admission to the medical school of the University of Utah. Students are urged to complete the first two years of their medical work at the State University School of Medicine.

FOUR-YEAR COURSE

Students who expect to enter medical schools that require an academic degree for entrance, or who, for other reasons, desire the Bachelor of Science degree before entering upon their medical course, may complete the requirements for the degree of Bachelor of Science in the School of Arts and Science with a major in Chemistry or Zoology. Such students should consult with the professor in charge of their proposed major subject, and arrange for the additional work necessary to complete the requirements for the Bachelor of Science degree.

THE SCHOOL OF COMMERCE

W. L. WANLASS, Dean

The purpose of the School of Commerce 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, business administration, merchandising, secretarial work, economics, political science, sociology, agricultural economics and marketing.

For the professions of law and medicine the commercial courses afford excellent preparation. Graduates are prepared for positions as teachers in commercial schools. Many desirable positions as industrial managers are open to those who are qualified by training and experience. In the field of retail and wholesale merchandising are unlimited opportunities.

ADMISSION

See statement of entrance requirements of the College on page 59.

Students who expect to become candidates for the Bachelor's degree are reminded that they should complete the requirements of the Junior College before they will be allowed to enter the Senior College. Read carefully the statements regarding "Junior College" and "Senior College" found on page 61, 62.

GENERAL REQUIREMENTS FOR GRADUATION

Candidates for the Bachelor of Science degree must meet in full all entrance requirements, and present 180 quarter hours of College work as outlined below (exclusive of the required courses in Physical Education or Military Science).

THE FOUR BASIC GROUPS

The candidate must include work in each of the four basic groups as follows:

Language Group: 18 hours (English, Modern Languages, Speech). Must include English 10, 11 unless excused by the English Department.

Social Science Group: 12 hours (History, Economics, Political Science, Sociology).

Biological Science Group: 12 hours (Botany, Zoology, Public Health, Bacteriology, Physiology).

Exact Science Group: 12 hours (Chemistry, Physics, Mathematics, Geology, Accounting 101, 102, 103).

MAJOR SUBJECT

Every student, at the time he enters the Senior College, must select a major subject in which at the time of graduation he must have completed at least 30 quarter hours of work. The student should consult with the professor in charge of his major work, and must secure the approval of the proposed combination of courses. (Read page 62.)

In the School of Commerce, students may major in the following subjects: Accounting, Business Administration, Merchandising, Secretarial Work, Economics, Political Science, Sociology, Agricultural Economics and Marketing.

MINOR SUBJECTS

From eighteen to thirty hours in some field of work closely related to the major subject will be chosen by the candidate with the advice and consent of the major department and the Dean of the School. (See page 62.)

SENIOR COLLEGE WORK

Fifty-four (54) hours of Senior College work taken after the candidate has completed at least 90 hours of work must be presented by each candidate for the B. S. degree. See page 62 for a definition of Senior College work.

RESIDENCE, SCHOLARSHIP, ETC.

See page 63 for requirements for graduation.

JUNIOR AND SENIOR YEARS

During the third and fourth years the student should complete his major and minor subjects and any related work prescribed by the Dean or Major Department. See list of courses at the beginning of each department announcement.

THE B. S. DEGREE IN COMMERCE WITH HIGH SCHOOL TEACHER'S RECOMMENDATION

It is a decided advantage to candidates for the High School Teacher's Certificate to hold the standard Bachelor's degree in Commerce, if their major work is in this field. Arrangements have been made with the School of Education to provide candidates for the Bachelor of Science degree in Commerce with the necessary professional educational courses to qualify them for the teacher's Professional High School Certificate. The High School Teacher's recommendation is given by the College, and the Professional High School Certificate awarded by the State Board of Education, to

those who include the following courses along with those presented for the B. S. degree:

The candidate must present twenty-seven hours of Professional Educational subjects which shall include Psychology 102 or its equivalent, and Education 111, 115, and 121, or their equivalents. The candidate's Biological Science group must include Health Education 108 or 109, and the Social Science group must include 10 hours in Sociology or Ethics or 5 hours in one of these subjects and 5 hours in Political Science or Economics.

Graduates of standard Normal Courses, or those who have had one year or more of successful teaching experience, may have some of these requirements waived. Consult the Dean in regard to this matter.

Candidates for the Bachelor's Degree with the High School Teacher's recommendation will be allowed to use the twenty-seven hours of professional education credits as desirable related work, or in the special field.

**THE FOUR YEAR COURSE LEADING TO THE B. S. DEGREE
AND THE TEACHER'S PROFESSIONAL
HIGH SCHOOL CERTIFICATE**

The first two years of this course will be the same as for the B. S. degree, except that the candidate should elect in the Social Science and Biological Science Groups the particular courses mentioned in the preceding paragraphs.

JUNIOR AND SENIOR YEARS

During the third and fourth years the student should complete his major and minor work as outlined for the B. S. Degree and for his related work include the following:

Junior Year

Psychology 101, and 102.....	6 hours
Education 111 and 121.....	6 hours

Senior Year

Training (Education 115).....	8 hours
Psychology or Education.....	7 hours

Note: All students in the School of Commerce are urged to take textiles and Clothing 15 and Principles of Nutrition 5.

THE SCHOOL OF EDUCATION

E. A. JACOBSEN, Acting Dean

The School of Education at the Utah State Agricultural College was authorized by enactment of the State Legislature in 1927. Its major function is to provide the professional courses in Psychology and Education required for the various certificates and diplomas authorized by the State Board of Education.

Supplementing the various courses in theory and method are facilities for demonstration and practice teaching. On the kindergarten and elementary school level these activities are conducted in the Whittier School, which is operated under the auspices of the School of Education. On the secondary school level, practice teaching is conducted in the secondary schools of Logan City under the direct supervision of the teacher training Director of the College.

ADMISSION

See statement of entrance requirements of the College on page 59. These requirements apply alike to students desiring the Normal diploma and to those qualifying for the B. S. Degree in Education.

CERTIFICATION

The B. S. Degree in Education is designed primarily for those students desiring to meet requirements for administrative and supervisory credentials. Other students will find it advantageous to take the Bachelor's degree in the particular school in which their major work is chosen. Arrangements have been made with all the different schools within the Utah State Agricultural College to provide the candidates for their respective degrees with the necessary professional courses to qualify them to teach in these fields. Outlines of courses leading to the B. S. degree with a teaching credential will be found under the respective schools.

REQUIREMENTS FOR GRADUATION

Candidates for the B. S. degree with a major in Education must fill all general entrance and graduation requirements as outlined on pages 59 and 63.

THE FOUR BASIC GROUPS

The candidate must include work in each of the four basic groups as follows:

Language Group: 18 hours (English, Modern Languages, Speech.) Must include English 10 and 11 unless excused by the English Department.

Social Science Group: 12 hours (History, Economics, Political Science, Sociology). Must include five hours of applied Sociology, and five hours of Political Science or Economics.

Biological Science Group: 12 hours (Botany, Zoology, Public Health, Bacteriology, Physiology). Must include Bacteriology 1 and Health Education 108.

Exact Science Group: 12 hours (Chemistry, Physics, Mathematics, Geology, Accounting 101, 102, 103).

REQUIREMENT FOR MAJOR IN EDUCATION

This requirement includes the completion of 41 quarter hours of work in the field of Psychology and Education; and must include the prescribed courses for high school certification and 14 hours of upper division work, which includes at least one course in each of the following fields: Advanced Administration or Supervision, History or Philosophy of Education, Tests and Measurements or Statistics, Advanced Educational Psychology, and special work in Education Seminar.

A major in Education requires a teaching major of 30 quarter hours and a minor of 18 hours in subjects taught in secondary schools. The basic groups must include 10 hours in Sociology or Ethics or 5 hours in these subjects and 5 hours in Political Science and Economics.

MAJOR SUBJECTS

Students selecting majors in Art, Music, and Physical Education must meet general admission and graduation requirements as outlined on pages 59 and 63, respectively, and must present a major of not less than 30 hours in one of the above fields. The student should consult the professor in charge of his major work and must secure his approval of the proposed combination of courses.

NORMAL DIPLOMA

Candidates for the Normal Diploma must meet all entrance requirements as outlined on page 59 and must present 135 quarter hours of College work as outlined (exclusive of Physical Education or Military Science).

BASIC GROUPS FOR NORMAL DIPLOMA

Language Group: 18 hours (English, Modern Language, Speech). Must include English 10, 11, and 105, or their equivalents,

Social Science Group: 12 hours. An approved sequence of courses in History, Economics, Political Science, Sociology.

Biological Science Group: 12 hours. An approved sequence of courses in Botany, Bacteriology, Physiology.

Exact Science Group: 12 hours. An approved sequence of courses in Chemistry, Physics, Mathematics, Geology. Must include Geology 1 or 15.

Special Group: The special group must include 12 hours in one field applicable to elementary school teaching. (Music, Art, Literature, Physical Education, etc.)

Note: Students may procure exemption from any of the specific course requirements, provided upon examination they show proficiency in that particular field.

OUTLINE OF FOUR YEAR COURSE

First Year	Third Year
Language Group including	Psychology 101 and 102..... 6
English 10 9	Education 111 and 121 6
Social Science 6	Education major 9
Biological or Exact Science.....12	Teaching major or minor.....18
Electives .....18-24	*Electives .....6-12
Second Year	Fourth Year
Language Group including	Education 114 and 115.....11
English 11 9	Education major 6
Social Science 6	Teaching major and minor..21
Biological or Exact Science..12	*Electives .....4-10
Teaching major or minor..... 9	
Electives .....9-15	

*Elective may be considerably increased if electives of previous years have been used in part in filling teaching major and minor. The teaching major and minor need not be entirely exclusive of basic group requirements.

OUTLINE OF COURSE FOR NORMAL DIPLOMA

First Year	
Physical Education 3	Social Science 5
Psychology 3 5	Physiology 14 4
Social Science 5	Special Group 5
Exact or Biological Science..10	Elective .....9-15
English 10 5	
Special Group 3	Third Year
Elective .....14-19	Education 121 3
Second Year	Education 104, 105, 106.....15
Physical Education 3	English 105 5
English 11 4	Exact and Biological Science 4
Education 4 5	Social Science 2
Exact or Biological Science..10	Special Group 2
	Elective .....14-20

Note: Graduates of Standard Normal Courses and those who have taught successfully for one or more years may have some of these requirements waived.

SCHOOL OF ENGINEERING

RAY B. WEST, Dean

It is the aim of this school to give the students a broad foundation in the fundamental principles of Engineering, together with sufficient knowledge of professional practice to enable them to apply these principles.

The School consists of three major divisions: Civil Engineering, Agricultural Engineering, and Mechanic Arts, each of which offers courses leading to a degree of Bachelor of Science in its special field. Civil Engineering students may choose their major in Irrigation and Drainage, Highways, Structural Design, or Sanitation, by arranging certain optional courses with the Dean. Agricultural Engineering students may specialize in Irrigation and Drainage, Farm Machinery and Farm Power, or Farm Structures, by choosing the electives in these fields.

ADMISSION

See statement of entrance requirements of the College on page 59.

Prospective engineering students are advised that they will be somewhat handicapped if they do not present for entrance one and one-half units of algebra and one unit of geometry.

REQUIREMENTS FOR GRADUATION IN ENGINEERING

Candidates for the Bachelor of Science Degree in Civil Engineering or in Agricultural Engineering must complete any one of the prescribed courses listed on the following pages, together with two years of Military Science and two years of Physical Education unless officially excused from either or both. Each candidate for a degree in Engineering must prepare a satisfactory thesis on a problem to be assigned by the department in which he elects his major. See C. E. 198.

The degree of Master of Science will be awarded upon completion of any one of the optional courses listed below, and additional work as outlined on page 66 under the general requirements for the Master's Degree.

PRESCRIBED COURSES IN CIVIL ENGINEERING

The Freshman, Sophomore and Junior years are common to all C. E. Courses, and the Freshman C. E. Course constitutes also the Freshman A. E. Course.

FRESHMAN

Subjects	Catalogue	F.	W.	S.	T.
Freshman Composition	Eng. 10		5		
Algebra	Math. 35	5			
Trigonometry	Math. 46		5		
Inorganic Chemistry	Chem. 3, 4	5	5		
Analytic Geometry	Math. 48			5	
Mechanical Drawing	C. E. 61	3			
Mechanical Drawing	C. E. 62		2		
Descriptive Geometry	C. E. 63				3
Materials of Engineering	C. E. 1, 2	3			3
Engineering Geology	Geol. 10			5	
Totals		16	17	16	49

SOPHOMORE

Calculus	Math. 117, 118, 119	5	5	5	15
Physics	Phyx. 20, 21, 22	5	5	5	15
Plane Surveying	C. E. 81, 82	4		4	8
Sophomore Composition	Eng. 11	4			4
Office Practice	C. E. 83		2		2
General Economics	Econ. 51		5		5
Irrigation Practice and Soils	A. E. 12			4	4
Totals		18	17	18	53

JUNIOR

Highway Constr. & Design.....	C. E. 120	5			5
Hydraulics	C. E. 141		5		5
Water Supply & Hydrology.....	C. E. 143			5	5
Strength of Materials.....	C. E. 103	5			5
Applied Mechanics	C. E. 101, 102		5	5	10
Contracts & Specifications	C. E. 190	3			3
Reinforced Concrete	C. E. 106		5		5
Bus. Org. & Acc't for Eng's.....	Bus. Adm. 108		3		3
Heat Power Machinery.....	C. E. 196			3	3
Irrigation Institu's & Mgmt.....	C. E. 149	5			5
Elementary Struc. Theory.....	C. E. 109			5	5
Totals		18	18	18	54

SENIOR—IRRIGATION MAJOR

Subjects	Catalogue	F.	W.	S.	T.
Design of Irrigation Systems...C. E. 146, 147.....		5	5		10
Hydroelectric Design .....C. E. 148				5	5
Electric Machinery .....C. E. 197			3		3
Masonry Construction and Foundations .....C. E. 107		5			5
Engineering Economics .....C. E. 192			5		5
Structural Design .....C. E. 113		4			4
Sewerage & Sewage Disposal...C. E. 194				5	5
Railroad and Highway Curves & Earthwork.....C. E. 181				5	5
Highway Administration .....C. E. 121			3		3
Design of Drainage Systems...C. E. 145				3	3
Highway Transportation .....C. E. 125		3			3
Thesis .....C. E. 198			1		1
Totals		17	17	18	52

SENIOR—HIGHWAY MAJOR

Design of Irrigation Systems...C. E. 146, 147.....		5	5		10
Hydroelectric Design .....C. E. 148				5	5
Electric Machinery .....C. E. 197			3		3
Masonry Construction and Foundations .....C. E. 107		5			5
Engineering Economics .....C. E. 192			5		5
Structural Design .....C. E. 113		4			4
Sewerage & Sewage Disposal...C. E. 194				5	5
Railroad and Highway Curves and Earthwork.....C. E. 181				5	5
Highway Administration .....C. E. 121			3		3
Railroads .....C. E. 191			3		3
Highway Transportation .....C. E. 125		3			3
Thesis .....C. E. 198				1	1
Totals		17	19	16	52

SENIOR—STRUCTURAL MAJOR

Subjects	Catalogue	F.	W.	S.	T.
Design of Irrigation Systems.....	C. E. 146, 147.....	5	5		10
Hydroelectric Design	C. E. 148			5	5
Electric Machinery	C. E. 197		3		3
Masonry Construction and Foundations	C. E. 107	5			5
Engineering Economics	C. E. 192		5		5
Structural Design	C. E. 113	4			4
Sewerage & Sewage Disposal....	C. E. 194			5	5
Railroad & Highway Curves & Earthwork	C. E. 181			5	5
Highway Administration	C. E. 121		3		3
Building Construction	C. E. 108		3		3
Adv. Structural Theory.....	C. E. 110	4			4
Thesis	C. E. 198			1	1
Totals		18	19	16	53

PRESCRIBED COURSES IN AGRICULTURAL
ENGINEERING

See page 42 for Freshman year common to all Engineering Courses.

SOPHOMORE YEAR

Subjects	Catalogue	F.	W.	S.	T.
Calculus	Math. 117, 118, 119	5	5	5	15
Heat, Light, Sound.....	Phyx. 20, 21, 22.....	5	5	5	15
Plane Surveying	A. E. 1, 2	4		4	8
General Economics	Ag. Econ. 51, 53.....		5	5	10
Sophomore Composition	Eng. 11	4			4
General Crops	Agron. 101		4		4
Totals		18	19	19	56

JUNIOR YEAR

Hydraulics	C. E. 141		5		5
App. Mech. & Strength of Materials	C. E. 101, 102, 103..	5	5	5	15
Agricultural Economics	Ag. Econ. 102, 120..	3	3		6
Contracts and Specifications.....	C. E. 190			3	3
Reinforced Concrete	C. E. 106		5		5
Farm Machinery	A. E. 15			3	3
Sewerage & Sewage Disposal....	C. E. 194			5	5
Electives		8			8
Totals		16	18	16	50

SENIOR YEAR

Subjects	Catalogue	F.	W.	S.	T.
Highway Administration	C. E. 121		3		3
Design of Irrigation Systems.....	C. E. 146, 147.....	5	5		10
Irr. Institutions & Mgnt.....	C. E. 143	5			5
Railroad Curves & Earthwk.....	C. E. 181			5	5
Soils	Agron. 106	4			4
Farm Structures	A. E. 6		3		3
Farm Motors	A. E. 13	3			3
Public Speaking	Speech		5	9	14
Electives .....	.....			3	14
Totals .....	.....	17	16	17	50

MECHANIC ARTS

This division offers a four-year course leading to the degree of Bachelor of Science in Mechanic Arts, with the object of training efficient auto mechanics and garage foremen, auto electricians, machine shop foremen and High School shop teachers. It lays an Engineering and Mechanical foundation for building and contracting. Two years' trade courses in Machine Work, Forging, Woodwork, Auto Mechanics, and Auto Ignition are provided for those who wish to become proficient tradesmen in these lines.

The shops are modern and well equipped, and ample floor space is provided.

REQUIREMENTS FOR GRADUATION

Candidates for the degree Bachelor of Science in Mechanic Arts must meet in full all college entrance requirements and present 180 quarter hours of college work as outlined below, exclusive of the required courses in Physical Education or Military Science.

THE FOUR BASIC GROUPS

The candidate must present the following number of quarter hours of work in each of the basic groups: Language Group, 12 hours, (must include English, 10, 11); Social Science Group, 9 hours; Biological Science Group, 9 hours; Exact Science Group, 18 hours; Special Group, 18 hours; Special Technical Group, 30 hours.

MAJOR AND MINOR

A major of 30 hours and a minor of 18 hours are required. For further explanation of these see page 62. The Mechanic Arts courses from which the Major, Minor, and Special Technical groups must be selected are announced under Courses of Instruction.

THE SCHOOL OF HOME ECONOMICS

CHRISTINE B. CLAYTON, Dean

The School of Home Economics is organized for study in fields essential to successful home life in modern society. The activities of the present day household include the promotion of the health and comfort of its members through proper food, clothing and shelter, the fostering of satisfactory family relationships and the functioning of the family group as an important part of the community.

In keeping with the newer trends in Home Economics education the course work has been reorganized into three major fields as follows: Child Development and Parental Education, Foods and Nutrition, and Textiles and Clothing. Students may major in any one of these fields and minor in the others or in related subjects.

A carefully planned four-year sequence of subjects known as the "Smith-Hughes course" is recommended for all students who contemplate teaching Home Economics. This course also gives the most satisfactory preparation for home making.

Students who desire to specialize in one field of Home Economics may do so providing that they take a minor in general Home Economics before graduation.

The training given in this School furnishes a basis for specialization in many fields such as successful home-making, school teaching, extension service, commercial demonstration work, nursery school teaching, and hospital dietitian positions.

ADMISSION

See statement of entrance requirements of the College on page 59.

GENERAL REQUIREMENTS FOR GRADUATION

Candidates for the Bachelor of Science Degree must meet in full all entrance requirements and present 180 quarter hours of college work as outlined below (exclusive of the required courses in Physical Education.)

THE FOUR BASIC GROUPS

Candidates must present twelve hours from each of the following three basic groups of work, and eighteen hours from the fourth basic group:

Social Science Group: (History, Economics, Political Science, Sociology).

Biological Science Group: (Botany, Zoology, Bacteriology, Public Health, Physiology).

Exact Science Group: (Chemistry, Physics, Geology, Mathematics, Accounting 101, 102, 103).

Language Group: (English, Modern Languages, or Speech.) Must include English 10, 11, unless excused by the English Department.

MAJOR SUBJECT

Those students wishing to specialize or to prepare themselves for graduate work may major in Foods, Textiles, or Child Development and Parental Education. The major may be chosen by the candidate but should receive the approval of the professor in charge of the Department concerned prior to entering Senior College. (See page 62).

MINOR SUBJECTS

From 18 to 30 hours of work in some field closely related to the major subject will be chosen as a minor by the candidate with the advice and consent of the major department and the Dean of the school.

SENIOR COLLEGE WORK

Fifty-four hours of Senior College work taken after the candidate has completed at least ninety-six hours of work must be presented by each candidate for the B. S. Degree. (See page 62 for a definition of Senior College work.)

THE B. S. DEGREE IN HOME ECONOMICS WITH HIGH SCHOOL TEACHER'S RECOMMENDATION

Candidates for the High School Teacher's Certificate in Home Economics are advised to take the Smith-Hughes Course as outlined below. This course will prepare them equally well to teach in all three fields of Home Economics: Foods, Clothing, and Child Development. The Professional educational subjects and other requirements for certification in Utah are included in this prescribed course, as are also the requirements for a B. S. Degree in Home Economics. The following are the required courses for State certification.

27 hours of Professional Educational subjects which shall include Psychology 102 or its equivalent, and Education 111, 121 and 122 or their equivalents. The candidate's Biological Science Group must include Health Education 108 or 109. Her Social Science Group must include 10 hours in Ethics and Sociology, or 5 hours in one of these subjects and 5 hours in Political Science or Economics. Graduates of Standard Normal Courses or those who have had one or more years of successful teaching experience may have some of these requirements waived. Consult the Dean in regard to this matter.

**SUGGESTED JUNIOR COLLEGE COURSE FOR ALL STUDENTS
EXPECTING TO GRADUATE IN THE SCHOOL OF
HOME ECONOMICS**

FRESHMEN

Fall

Art 1 (Nature Appreciation).....	3 hours
Home Economics 10 (Survey of Home Economics).....	1 hour
Textiles 10 or (Clothing Selection).....	3 hours
Foods 20—Foods Study.....	5 hours
English 10	3 hours
Anatomy and Physiology.....	5 hours
Home Economics 25.....	2 hours
Literature	2 hours
Economics	1 hour
	15
	or
	17 hours

Winter

Art 2—Design	3 hours
Foods 20—Food Study.....	5 hours
or	
Textiles 10	3 hours
Textiles 11	3 hours
or	
Foods 21	5 hours
Sociology 4 (Social Relations).....	3 hours
Literature	2 hours
or	
Care of the Sick.....	2 hours
Economics	1 hour
	17 hours

Spring

Foods 21 or (Food Study).....	5 hours
Textiles 11 (Clothing Selection).....	3 hours
Physics 1	5 hours
Anatomy and Physiology.....	5 hours
or	
Freshman Composition	5 hours
Economics	1 hour
Electives	3 hours
	17 hours

SOPHOMORE

Fall

English 11 (Sophomore Composition).....	4 hours
Child Development 35, or Literature.....	3 hours
Chemistry 3 (Inorganic Chemistry).....	5 hours
Bacteriology 1 and Laboratory (General Bacteriology).....	5 hours
	17 hours

Winter

Textiles 50 (Textile Economy).....	5 hours
Literature or Child Development 55.....	3 hours
Chemistry 4 (Inorganic).....	5 hours
or	
Chemistry 3 (Inorganic).....	5 hours
Economics 51 (Principles of Economics).....	5 hours
Economics	1 hour
	17 hours

Spring

Electives	3 hours
Chemistry 4 (Inorganic).....	5 hours
History	5 hours
Child Development 35, or Literature.....	3 hours
Economics	1 hour
	17 hours

The above Junior College registration provides for the partial fulfillment of group requirements as follows:

Language, 14 hours.

Exact Science, 15 hours.

Social Science, 8 hours.

Biological Science, 10 hours.

Physical Education, 5 hours.

Foods, 10 hours.

Household Admin., 3 hours.

Electives, 9 hours.

Textiles, 11 hours.

Child Development, 5 hours.

**SUMMARY OF REQUIREMENTS FOR GRADUATION
WITH SMITH-HUGHES CERTIFICATE**

Hours needed to fill required groups.....	54 hours
Art 1, 2,	6 hours
Household Administration, including:	
Survey	1 hour
Care of the Sick	2 hours
Household Administration 149	4 hours
Cottage	5 hours
Art 123	5 hours
	<hr style="width: 10%; margin-left: auto; margin-right: 0;"/>
	17 hours
Foods, including:	
Foods 20, 21, 106, 140.....	17 hours
Child Development 35, 125, 130, Soc. 171.....	14 hours
Education:	
Edu. 111, 119, 120, 121, 122, Psy. 101, and 103.....	27 hours
Public Health	3 hours
Textiles 10, 11, 50, 55, 115, 125, 160.....	17 hours
Physical Education	6 hours

THE SUMMER SESSION

For over twenty-five years the College has conducted Summer Sessions as an important part of its curriculum. Since 1924 the curriculum has been materially enlarged and enriched and a very efficient lecture course established. The purpose of this large educational undertaking is to bring to Logan, with its delightful summer climate and its many recreational features, a number of the leading educators of the nation, and build, in the intermountain west, a summer school of wide influence.

During the Summer session nearly all of the departments of the College are represented, the courses of instruction being arranged to meet the particular needs of Summer students.

The courses offered in Education, Psychology, and related departments make it possible for the students to meet nearly all of the requirements for Utah certification in School Administration and Supervision for High Schools, Junior High Schools, and Grammar Schools; also the subjects offered will meet most of the requirements for certification in surrounding states.

The departments of Botany, Geology, and Zoology are especially emphasized because of the location of the School. Cache Valley, Logan Canyon, and nearby Bear Lake afford unparalleled opportunities for the study of plant and animal life and geological formations, while Bear River Bay near Brigham City, only thirty-five miles from the College campus, affords possibly as fine an opportunity as can be found anywhere in America for the study of water fowl and fish life.

Students desiring to make up certification requirements or prepare for advanced standing are given all the assistance possible. The entire equipment of the Institution is available, and every care is taken to preserve the standard and the spirit of the College.

GRADUATE CREDIT

Summer session students are allowed six years in which to satisfy requirements for the Master's degree. This makes it possible to secure this degree without giving up present teaching employment. Those who expect to register for work leading to this degree should submit their credits to the Dean of the Faculty several weeks in advance of registration and indicate the subject in which they wish to major. This will make it possible to have the course of study approved at the time of registration.

UTAH AGRICULTURAL EXPERIMENT STATION

P. V. CARDON, Director

The establishment of Land-Grant Colleges, under provisions of the first Morrill Act (1862), soon led to the development of a national sentiment favoring the creation of agricultural experiment stations in the various states and territories of the Union, to supplement the educational functions of the colleges.

In keeping with this sentiment, Congress, in 1887, passed the Hatch Act providing for the establishment in each state and territory, under the direction of the Land-Grant college, of an experiment station "to aid in acquiring and diffusing among the people of the United States useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and applications of agricultural science." The Hatch Act appropriated \$15,000 per annum to each state.

Supplementing the Hatch Act, another act known as the Adams Act was passed by the National Congress in 1906. Under the provisions of this act, an additional sum of \$15,000 per annum was appropriated for the use of each state experiment station "to be applied only to paying the necessary expenses of conducting original researches or experiments bearing directly on the agricultural industry of the United States, having due regard to the varying conditions and needs of the respective states and territories."

For the still more complete endowment of the agricultural experiment stations Congress, in 1925, passed the Purnell Act, which gave to each station the sum of \$20,000 per annum with an addition of \$10,000 each year thereafter until for the fiscal year ending June 30, 1929, the total sum of \$60,000 was available, and shall continue to be available each year indefinitely. "The funds appropriated pursuant to this act shall be applied only to paying the necessary expenses of conducting investigations or making experiments bearing directly on the production, manufacture, preparation, use, distribution, and marketing of agricultural products and including such scientific researches as have for their purpose the establishment and maintenance of a permanent and efficient agricultural industry, and such economic and sociological investigations as have for their purpose the development and improvement of the rural home and rural life, and for printing and disseminating the results of said researches."

In addition to the Federal funds appropriated for agricultural research under the provisions of the Hatch, Adams, and Purnell Acts, the state agricultural experiment stations receive money appropriated by their respective state legislatures. The amount of money coming from the state treasury is governed in each case by the relative importance of agriculture within the state and the ur-

gency of the agricultural problems demanding solution. Hence, while the Federal funds are uniform in size in all states, the total funds differ widely, owing to variation in state appropriations.

In 1889, two years after the Hatch Act was passed, the State of Utah, taking advantage of the provisions of that act, established the Utah Agricultural Experiment Station as a major division of the Utah State Agricultural College. Since its establishment, the Station has functioned as an active investigational unit, steadily extending its investigations into an ever-broadening field of research.

The research work is conducted on a project basis, each project, after approval, being assigned to one or more of the researchers who make up the Station Staff. While most of the projects now in progress are wholly under the supervision of state workers, a few projects are conducted cooperatively with various Bureaus of the U. S. Department of Agriculture, which assign additional workers to the respective fields of investigation.

At the present time the following projects are being conducted by the Utah Agricultural Experiment Station along different lines of agricultural research:

Agronomy: Agronomic investigations include experiments in general farm practice, weed control, genetic studies in wheat and other small grains; smut-resistant studies; investigations in bacterial wilt of alfalfa; pasture-management studies; sugar-beet resistance to curly-top; and various investigations in soil management. **Miscellaneous:** Dry-farming practices in different parts of the state; methods of pasture-management which will insure more abundant and cheaper feed for livestock industry of the state; selection and breeding of a sugar-beet variety which will be resistant to curly-top, which has already wrought severe damage to the state; tests on grain varieties; wheat-breeding and genetic investigations; control of perennial weeds by chemical means; bunt control; alfalfa-seed investigations; and various cropping experiments. **Soil Studies:** Irrigation and manuring studies as to the effects of different amounts of irrigation water and manure in various combinations on the continued productivity of the soil; rotation and fertility tests; cultural methods with sugar-beets to increase yield and quality of crop; effect of different types of commercial fertilizers on Utah's distinctive calcareous soils and on yield and quality of crops produced; response of soils to commercial fertilizers; and muck-soil studies.

Animal Husbandry: Livestock investigational work now in progress includes breeding and feeding experiments with dairy cattle, wool production, and winter maintenance studies with range sheep, fattening tests with beef cattle and swine, breeding and feeding studies with poultry, and various studies of animal diseases.

Dairy Cattle: A study of the influence of proved sires in increasing milk and butterfat production; the relative efficiency of various home-grown rations; a determination of the feeding value of sugar-beet by-products as supplements to home-grown feeds for dairy cattle. **Sheep:** Identification and chemical analysis of various desert

plants that make up Utah's winter forage supply for range sheep to determine the character and amount of supplementary feed concentrates indicated, the relative efficiency of various breeds and crosses of sheep for the production of feeder lambs; winter feed and shelter vs. open range wintering as affecting quantity and quality of wool from range sheep; comparative fleece values from types of Rambouillet ewes. **Beef Cattle:** A study of the fattening value of sugar-beet by-products in an attempt to correct indicated mineral deficiencies; efficient rations for wintering beef cattle; proper management and carrying capacity of irrigated tame grass pastures for summer grazing. **Swine:** Experiments to determine most efficient swine-fattening rations for Utah farmers; a comparison of various protein concentrates, including skim milk powder, semi-solid skim milk, and tankage as supplements to barley and wheat for swine-feeding. **Poultry:** Breeding studies for egg production; feeding studies to develop most efficient growing and egg-production rations. **Veterinary Pathology:** A study of control and eradication of Bang's abortion in dairy cattle; a study of control and eradication of Pullorum disease (poultry); transmissibility of Bang's disease among dairy cattle in a Utah village; the susceptibility of cattle to inoculation with acid-fast organisms, isolated from so-called tubercular skin lesions; a study of the effect of sugar-beet by-product rations on livestock.

Botany and Plant Pathology: Investigations in this field include studies in the bacterial wilt of alfalfa, a disease devastating the alfalfa fields in at least seven counties of the state; psyllid yellows of the potato; virus studies of the potato; plant-disease survey; nature and cause of chlorosis in Utah and practical methods of control; and various tomato-diseases studies which have threatened the canning industry of the state of Utah.

Chemistry and Bacteriology: Mineral-content-of-wheat studies; nutritive value of high vs. low calcium- and phosphorus-carrying wheats; permanent-fertility studies; analysis of irrigation waters of the state; study of microflora of the soil.

Entomology: Investigations on various miscellaneous insects including the chalcis-fly tarnish plant bug and superb plant bug affecting alfalfa-seed; grasshoppers and their allies in Utah; sugar-beet leafhopper investigations; and tomato-psyllid studies.

Economics and Sociology: Economic factors affecting the production and marketing of Utah agricultural products; economic factors influencing the financial conditions of certain Utah irrigation and drainage projects; family-living expenditures on Utah farms; study of the organization and management of Utah farms; farm price analysis; cooperative marketing of agricultural products; sociological study of towns and villages in Utah.

Geology: Development of underground water.

Home Economics and Human Nutrition: Study of food habits of elementary rural school children in relation to their physical well-being; investigations on physical curd character of milk and its relationship to the digestibility and food value of milk for infants; the effect of evaporation of milk on its physical curd character; effect of physical curd character of cheese; investigation on high-altitude metabolism studies of normal college women.

Horticulture and Vegetable Gardening: Investigations of orchard root-stocks; cherry-pollination studies; variety testing; peach-harvesting-index studies; truck crop investigations including miscellaneous onion studies, use of plant protectors, methods of plant-growing and plant-growing structures.

Irrigation, Physics, and Soils: Seasonal snow surveys to determine prospective water-supply; technical studies of the physical and physico-chemical properties and processes in soils; study of some factors which influence the reclamation of water-logged and alkali lands; study of factors influencing the financial condition of certain Utah irrigation and drainage projects.

Range Management: Range reseeding studies with native forage plants.

Much of the research work conducted in furtherance of these projects is carried on in the various laboratories and greenhouses located on the college campus, but many phases of the work must of necessity be conducted on the farms and open ranges of Utah. A number of studies are made each year in cooperation with stockmen, farmers, and farm women and many more are made on the substations located in various parts of the state.

The educational importance of the Experiment Station is emphasized by the fact that most members of the Station Staff are also members of the regular college faculty, which makes it possible for students to receive first-hand information regarding the methods employed in research and to familiarize themselves with the results recorded each year from research in progress. Under proper arrangement students are given access to the Station Library. All staff members are anxious to direct students who are interested in any of the several branches of science.

THE EXTENSION SERVICE

WILLIAM PETERSON, Director

The Smith-Lever Act, passed by Congress in 1914, created the Extension Service, which is a cooperative service representing the United States Department of Agriculture and the Utah State Agricultural College.

In 1915, under sections 5290 to 5296, the Utah legislature accepted the provisions of the Smith-Lever Act which provides: "That cooperative agricultural extension work shall consist of the giving of instruction and practical demonstrations in agriculture and home economics to persons not attending or resident in said colleges in the several communities, and imparting to such persons information on said subjects through field demonstrations, publications, and otherwise; and this work shall be carried on in such manner as may be mutually agreed upon by the Secretary of Agriculture and the state agricultural college or colleges receiving the benefits of this act."

The National administrative staff which has charge of the work for the nation, is at Washington, D. C. and the Utah state organization is located at the Utah State Agricultural College as a division of the Institution. The state organization includes a director, two assistant directors, supervisors and subject-matter specialists and the county staff consists of one or more county agents in each county that fulfill prescribed requirements necessary to secure the services of an agent.

The Extension Service is financed by appropriations made by the Federal Government and the state government. The counties in which agents are employed appropriate travel and office expenses for the respective agents.

Briefly enumerated, the objectives of Extension work are:

1. To increase the net income of the farmer through more efficient production and marketing and the better use of capital and credit.
2. To promote better homes and a higher standard of living on the farm.
3. To develop rural leaders, through short courses and individual work.
4. To promote the mental, social, cultural, recreational, and the community life of rural people.
5. To implant a love of rural life in farm boys and girls. This is accomplished largely through the program of the 4-H clubs.
6. To acquaint the public with the place of agriculture in the national life.
7. To enlarge the vision of rural people and the nation on rural matters.

8. To improve the educational and spiritual life of rural people.

The Extension Service works preferably with existing rural organizations as a means of reaching the largest possible number of people. Individuals may receive attention, however, upon personal requests. Assistance is given to men, women, boys and girls in problems of the farm and home. Information on problems that are of common interest to groups is given in project form, and followed up progressively until satisfactory solutions are found and approved practices established. Information is also disseminated by demonstrations, lectures, film strips, motion pictures, news articles, radio, and illustrations. Materials for much of the scientific data imparted by the Extension workers are supplied by the Experiment Stations. The State Specialists work with the County Agricultural and Home Demonstration agents in assembling information and determining methods of solution. Voluntary project leaders chosen from local communities are trained by Specialists and County Agents to assist in organizing and leading project groups.

The list of projects carried by the Utah Extension Service Staff throughout the state, follows:

Irrigation, Civic Improvements, Flood Control, 4-H Clubs, Fertilizers, Foods and Nutrition, Crops Management, Clothing, Landscaping, Child Care and Training, Forestry, Home Management, Weed Control, Home Furnishings, Rodent Control, Home Reading, Live-stock Management, Home Accounts, Poultry Raising, House Plans, Building and Remodeling, Trench Silo Construction, Home Beautification, Farm and Home Accounting, Health, Cooperative Marketing, Organization and Leadership Training in Homemaking, Live-At-Home Methods, Family Savings and Investments.

CORRESPONDENCE-STUDY

The Utah State Agricultural College was one of the first educational institutions of the inter-mountain region to establish a Correspondence-study department. Correspondence-study furnishes an excellent opportunity for systematic instruction to students of high school or of college grade; the same is true also of the teacher, the professional or business man, the club woman, the project leader in extension work—to all who cannot leave home.

Students must be nineteen years of age, or submit fifteen units of high school work, or be graduates of a high school for admission to Correspondence-study courses of college grade.

One-fifth of the credits necessary for a degree may be earned through this department.

Courses offered:

1. Collegiate studies. A wide variety of subjects are offered in the following departments: Agricultural Economics and Marketing, Agronomy, Animal Husbandry including Poultry and Dairying, Art, Business Administration and Accounting, Economics and Sociology, Education, English, Entomology, Geology, History, Horticulture, Irrigation and Drainage, Mathematics, Modern Languages, Psychology, Mechanic Arts, Public Health, and Bacteriology.

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

3. Preparatory, or high school studies, for those who have been unable to complete their high school courses and who wish to satisfy the entrance requirements of the College; also for those who wish to fit themselves for careers in which the equivalent of a high school education is necessary.

In isolated communities, there are many who cannot obtain a good high school education because of the expense involved in leaving home. There are also those even in favored communities who, on account of the necessity of bread winning, are unable to leave their employment for nine or ten months of the year. Both of these classes may now receive a high school education.

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

5. Reading Courses for the farmer; short, practical, non-credit courses in agronomy, animal husbandry, and horticulture.

6. Reading Courses for the business man; short, practical non-credit courses in analysis of retail merchandising, retail store accounting, bookkeeping for the cooperative grain elevators and creameries.

A special catalogue of Correspondence-study courses will be mailed on request.

ADMISSION

Entrance to the Freshman class is based upon graduation from an accredited high school, or upon the presentation of fifteen 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 should include (among those units presented for entrance), ten units in the following five groups: English, Mathematics, Social Science, Natural Science, and Modern Languages, of which at least seven must be as follows:

English	three units
Algebra	one unit
Geometry	one unit
Social Science	one unit
Natural Science	one unit
(Requiring laboratory work)	

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

When a deficiency exists; that is, when a student has fifteen units of high school work but lacks one or more of the units specified above, the student will be required to complete nine quarter hours of college work for each unit in which he is deficient, in addition to the regular group requirements in that field.

A student who has less than fifteen units of high school work cannot enter unless he is beyond high school age, in which case he must register as a vocational student (see below).

Physical Education and Military Drill will not be accepted in the fifteen approved units.

VOCATIONAL STUDENTS

Persons 19 years of age, or over, who have less than 15 units of high school work and who have not been in attendance at any high school within one year preceding the time of application for admission to the Utah State Agricultural College, may, at the discretion of the Entrance Committee, be admitted as vocational students. Such persons are not candidates for a degree, and have no collegiate rating. They may register for any courses which their previous training or experience will enable them to carry successfully, but only after consultation with the instructors concerned, and their written approval.

If the applicant has been in attendance at a high school within one year preceding the time of application for admission to the Utah State Agricultural College, his application will not be con-

sidered unless it is accompanied by a statement from the superintendent of the high school attended to the effect that the applicant is a person worthy of admission to the College, and that in his opinion the applicant could be better served at the Utah State Agricultural College than at the high school concerned.

Such persons may receive college standing and become candidates for a degree:

a. By using the credits obtained while vocational students to satisfy college entrance requirements. In such cases 12 quarter hours will be taken for each deficient high school unit.

b. By passing written entrance examinations. These examinations will be offered the third day of each quarter. The questions will be prepared, and papers graded, by the departments concerned. The examinations will be conducted by the Entrance Committee.

No credits obtained prior to the quarter in which college standing was established can be used toward a degree.

Advanced Standing: The College does not grant 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. Transcripts submitted for evaluation become the property of the institution, and will not be returned.

Class Standing: Forty hours (40) 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 61) 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 or Military Science.

Registration: The Fall quarter opens on Monday, September 25, on which date entrance examinations will be given for those requesting them. Freshmen will register on Monday, September 25, other students will register on Tuesday, September 26. The Winter quarter begins on Monday, January 3; the Spring quarter opens on Monday, March 19; the Summer session on Monday, June 11. It is of decided advantage to register upon the opening date. The amount of work for which any students 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 registering.

Fifteen hours, exclusive of Physical Education or Military Science, is the normal registration for any one quarter. A student may, however, with the consent of the Dean, register for seventeen hours.

A fee of one dollar per day will be charged those who register late. In no case, however, will the fee for late registration exceed five dollars.

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. Courses numbered 1 to 99, inclusive, are Junior College courses. Those listed from 100 to 199, inclusive, are Senior College courses. All courses with the numbers 200 and over are Graduate courses.

Qualified students may enter courses in any quarter, unless a statement to the contrary appears in the description of the courses.

THE JUNIOR COLLEGE

The work of the Junior College comprises the studies of the Freshman and Sophomore years. In this College it is expected that the student, in addition to fulfilling the prerequisites for the major work upon which he will concentrate in the upper division, will make an effort to establish a basis for the breadth of culture which will give him a realization of the methods and the 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 College 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 Science 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 advanced work.

During the two years the student is expected to completely satisfy the entrance requirements (see page 59) and complete 96 hours, which shall include 54 hours of work in four basic groups as follows:

Language Group: 18 hours (English, Modern Languages or Speech). Must include English 10, 11 unless excused by the English Department.

Social Science Group: 12 hours (History, Economics, Political Science, Sociology, Agricultural Economics).

Biological Science Group: 12 hours (Botany, Zoology, Entomology, Public Health, Bacteriology, Physiology).

Exact Science Group: 12 hours (Chemistry, Physics, Mathematics, Geology, Accounting 101, 102, 103, when preceded by the Mathematics prerequisite).

In addition, the 96 hours should include at least 15 hours of work in one subject, or school. This work is to serve as a beginning for his major work which is to be continued in the Senior

College. The student must fulfill all the requirements in Physical Education and Military Science. 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

Only such students as have completed the Junior College requirements may be registered in the Senior College.

Graduates of standard normal schools and junior colleges and students from other colleges who present at least 90 hours of college work exclusive of required courses in Physical Education, may be registered in the senior college, even though they lack some of the group requirements of the junior college, provided they register so as to remove these deficiencies within two quarters of the time of registration.

Major Subject

The student must select a major subject upon entering the senior college. The Dean will assign the student to the professor in charge of this major who will register the student during his junior and senior years and act as his adviser.

The Major Department has the authority to prescribe not less than thirty, nor more than fifty hours of work in the Major Subject (exclusive of any courses which may have been used to satisfy Junior College requirements in any of the four basic groups). The Major Department and the Dean shall also prescribe such other related courses as may be considered desirable, provided always that the students' free electives may not be reduced below thirty-six hours.

Minor Subjects

A minor subject or group of related subjects consisting of from eighteen to thirty hours of work closely related or basic to the major must be selected by the student and approved by the Dean of the School and the Major Department.

GRADUATION

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE

The College confers the Degree of Bachelor of Science in Agriculture and Forestry, Arts and Science, Agricultural Engineering, Civil Engineering, Commerce and Business Administration, Home Economics, Education, or Mechanic Arts upon students who meet the requirements specified herewith:

Before a student can become a candidate for a baccalaureate degree, the abstract of his record in the College must show: first, that he has satisfied the entrance requirements as prescribed for the class with which he expects to be graduated; second, that the collegiate work for which he has credit, his conditional and other pending credits, the completion of which is reasonably assured, and the work for which he is registered or is planning to register, together satisfy the requirements for graduation including Physical Education and Military Science as prescribed for his class.

Students who are planning to graduate at the next commencement should apply for candidacy not later than the 4th week of the fall quarter. The Graduation Committee will then check over the records and admit to candidacy all students whose records show that the conditions specified above have been fully met. Students who have not fully met the conditions as specified will be officially notified of their deficiencies and withheld from candidacy until such time as the deficiencies have been removed.

GENERAL REQUIREMENTS

1. Six quarters work in Physical Education by men and women, provided that candidates who are officially excused from physical education present one credit of other work for each quarter that they had been excused.
 2. Six quarters of work in Military Science for men unless officially excused from this requirement. Men who take the work in Military Science are excused from the Physical Education requirement mentioned in paragraph one (1) above.
 3. One hundred eighty credits of collegiate work, exclusive of the required courses in Physical Education or Military Science.
 4. Fifty-four hours of Senior College work taken after the candidate has presented at least ninety college credits, in addition to the required courses in Physical Education or their substitutes.
 5. The completion of a major, a minor, and related work as outlined under Senior College (see page 62).
 6. The completion of required work in the four basic groups in residence. The residence requirement may be satisfied by residence Summer School work.
- Paragraphs 5 and 6 above do not apply to students who are pur-

suing a prescribed course of study such as in Engineering, Pre-medical work, Forestry and Smith-Hughes Teacher Training courses.

7. Candidates must have been in residence at the Utah State Agricultural College during three full quarters. During this period the candidate must have obtained at least 45 resident credits. The last 45 credits presented for the degree must have been earned in the College, and of these 45, at least 30 must have been earned in residence. The residence requirement may be satisfied by residence Summer School work.

8. An average grade of "C" or higher; credits of "D" grade not to exceed one-fifth of those used toward graduation; and no credit for courses having a grade lower than "D."

9. Written application to graduate, filed with the Graduation Committee about January 15, containing information requested. A special fee of one dollar will be charged those applying later than that date.

10. Recommendation for graduation in writing by:

- (a) The Professor in charge of the major subject.
- (b) The Dean of the school in which the major work is done, and
- (c) The Committee on Graduation.

11. The candidates must be of good moral character and must have discharged all college fees.

12. Attendance in person at the Commencement and Baccalaureate exercise at which the candidate expects to secure the degree, unless excused in writing by the Graduation Committee for very urgent reasons.

The College reserves the right to change at any time the requirements for graduation, and every candidate for a degree shall be held to a compliance with such changes, as far as the uncompleted portion of his course is affected.

Students who do not graduate with the class with which they entered are held to the requirements, including entrance, which are applicable to the class with which they graduate.

MILITARY SCIENCE REGULATIONS

The Utah State 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 military training (6 credit hours) are required of all able-bodied male students. By regulation of the College the course is

required during the first and second years at the Institution.

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.

It shall be the duty of every student of whom military training is required, to see that he is properly registered for the course and to report for instruction. Students who are required to take military training but fail to register or to report for classes will, with the approval of the President, be excluded from all classes in the College. The responsibility of complying with the regulations regarding military science rests entirely with the student.

Upon petition, the following classes of students may defer, or be excused from, the requirements in military science:

a. Students who are physically disqualified may be excused from Military Science by the College Medical Examiner. Participation in athletics cancels all excuses from Military Science based on physical disability.

b. Any student entering as a junior or senior may be excused from military science.

c. In exceptional cases, students over twenty-five years of age at the time of original entrance into the College may be excused from military science.

d. Married students may be excused from the requirements in military science.

e. Students who are not citizens of the United States and who do not intend to become citizens will not be permitted to take military training.

f. A student who is working his way through college by means of employment which conflicts with Military Science may have said requirements deferred during any quarter in which he is so employed. Students taking advantage of this provision must present a letter from their employer substantiating their claim and setting forth the hours of employment.

g. Students who attend college during the Winter quarter only may have the requirements in Military Science deferred during that quarter.

h. Students who are active in the Army, Navy, or Marine Corps of the United States, or who are commissioned officers of the National Guard or Naval Militia, or reserve officers of the military or naval forces of the United States, or members of the Naval Reserves will not be permitted to enroll in the Reserve Officers' Training Corps.

Vocational students are automatically excused from the requirements in Military Science.

A student claiming exemption from military science for any of the reasons noted above will present a petition for such excuse to the appointed Committee on or before the beginning of the quarter in which he desires to be excused. All such petitions will be prepared on the prescribed form which may be obtained in the office of the Professor of Military Science and Tactics, and will be ac-

accompanied by letters, or other documentary evidence substantiating the claim. Petitions for deferment on grounds of employment must be presented immediately after such employment has been secured.

Pending the action of his petition, the student will register for the course prescribed for his class and will enter upon the work of such course.

Any student who may be excused from attendance in military science for any valid reason must make up the deficiency in other departments of study.

Every student registered for military science is required to make a uniform deposit of \$5.00. A laboratory fee of \$1.00 will be deducted from this deposit. The balance, less the cost of any property lost or damaged, will be refunded upon the completion of the year or upon withdrawal from the course.

GRADUATION AT THE CLOSE OF THE SUMMER SESSION

Any student who can satisfy the requirements for graduation by the close of the Summer Session 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.

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 Science may be granted on the completion of the following requirements:

The candidate must have been in actual residence at the College three full quarters after receiving the standard Bachelor's degree (or after having met the requirements for this degree), and must obtain forty-five (45) 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 school students with the baccalaureate degree are allowed six 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 15 credits) must be prepared by May 1, and must be accepted

*Arrangements have been made whereby those engaged in teaching will find it possible to complete all requirements for a Master's degree in the School of Commerce in four summer sessions. For further information with regard to this program, prospective students should consult the regular Summer Session catalogues.

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.

Graduate students should not register for more than 15 credit hours. Students who have established records of high scholarship may be permitted to register for additional credits (not to exceed 17 per quarter) by the Dean of the Graduate Division.

STUDENT EXPENSES

Annual registration fee (resident).....	\$10.00
Annual registration fee (non-resident).....	35.00
Tuition fee, per quarter.....	9.00
Library fee, 1 or 3 quarters.....	3.00
Gymnasium fee, per quarter.....	1.00
Withdrawal deposit, 1 or 3 quarters.....	1.00
Class fee, 1 or 3 quarters.....	1.00
Locker rental, 1 or 3 quarters.....	1.00
Typewriting fee.....	1.00
Burroughs posting machine.....	1.00
Burroughs Calculating machine fee.....	1.00
General student body fee.....	10.00
The fee for separate quarters has been divided as follows:	
Fall quarter.....	\$ 5.00
Winter quarter.....	4.00
Spring quarter.....	1.00
Buzzer fee.....	2.00
Stadium fee.....	3.00
Military suit deposit (required of all students registered for Military Science and Tactics).....	5.00
Laboratory fee, per credit hour.....	.50
Laboratory deposit, for all laboratory and shop classes.....	3.00
Registration as listener in lecture course in which no credit is desired, per subject.....	5.00
Registration for 6 hours or less, 1 or 3 quarters.....	15.00
Graduation fee.....	5.00
Cap and gown rental (B. S. Degree).....	2.00
Cap and gown rental (M. S. Degree).....	2.50
Late registration fee, per day.....	1.00
(Maximum \$5.00)	
Excess registration fee, per hour.....	1.00
Transcript of credit.....	.50
(Additional transcripts may be had for 25 cents if obtained at same time)	
Teacher placement fee.....	1.00

Special examinations may be taken in subjects not registered for, on approval of the Special Examination Committee, and upon payment of 50 cents per credit hour, minimum fee \$2.50.

After the first week of each quarter, changes of registration 50 cents for adding and 50 cents for dropping a subject.

Registration is not completed until the student has presented his fee card at the cashier's window, Secretary's Office, and settled for his fees.

All students when paying fees are given official receipts from the Secretary's Office. These receipts must be presented before refunds are allowed. The students, therefore, should exercise care that the receipts are not lost or mislaid.

All fees except registration fee will be refunded to any student withdrawing from school the second week of the quarter. No refunds are allowed after the second week.

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 activities controlled by the Student Body organization; athletic events—football, baseball, tennis and track—dramatics and musical entertainment, 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.

Since all women 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 courses 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 spent 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.

Good board and room in a private home costs from \$4.00 to \$6.00 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 State Agricultural College:

	Low	Average	Liberal
Tuition, books, fees, etc.....	\$ 70.00	\$ 70.00	\$ 80.00
Room and board.....	180.00	180.00	200.00
Incidentals or miscellaneous.....	75.00	100.00	150.00
Total.....	\$325.00	\$350.00	\$430.00

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 number of the students of the Utah State Agricultural College earn part of their expenses while in residence. The College itself gives employment to many students, and college officers are glad to be of assistance to 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. It is desirable, if possible, 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 \$250 to \$300, for help of worthy students of Junior or Senior rank. Applications for this scholarship must be filed with the chairman of the committee on awards and honors before April 15, for the succeeding year.

The One Thousand Dollar Liberty Bond Endowment contributed by the faculty, yields a loan fund of \$40, which is to be loaned by the Director's 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 1927 Class Gift to the College yields an annual income sufficient to provide three scholarships of \$125. Application should be made by Juniors to the Awards and Honors Committee on or before April 15. Applications must be accompanied by an approved outline of a proposed study project to be completed during the Senior year and submitted to the Awards and Honors Committee not later than May 1. Two copies of the completed thesis are to be filed in the College library.

The U. S. 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 College Award is conferred annually upon the male student of the institution who shows evidence of being able in greatest measure to repay to the nation the investment which it has made in him, on the basis of the following rating:

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

(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, and his qualities of social leadership, as shown in student affairs, based upon physical and moral cleanliness and strength of character (50 points).

The College Award is conferred annually upon the woman student of the institution who shows evidence in greatest measure of:

(a) Potential vocational or professional efficiency as shown in scholarship, industry, and natural ability (50 points); and

(b) Womanly qualities, development of the social graces, not necessarily social prominence, and attitude of mind (50 points).

The Rhodes Scholarships. A number of candidates for the Rhodes Scholarships in Oxford University, England, are selected each year from the State of Utah. They are of the value of \$2,000.00 a year, and are tenable for three years. Students who wish to apply for them must have some social and athletic distinction as well as high scholarship in mathematics, sciences, or letters. All applicants must also have three years of French, and it is advisable to have Latin, German, and English history, as well as high school mathematics. Full information and application blanks may be secured at the President's Office or from Professor Frank R. Arnold, chairman of the Rhodes Scholarship Committee. Students who wish to apply for these scholarships are advised to start preparing for them in Freshman year. They are usually given to Seniors or graduate students.

The American Legion Scholarship Medal is awarded each year to the letterman on the football team who maintains the highest scholastic record during the football season.

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 American Legion Military Medal is given to a letterman who exhibits the most wholesome attitude toward military training during the year in which he earns his letter.

The Thatcher Brothers Banking Company, as a member of the First Security Corporation System, offers annually a scholarship of \$150.00 to that student who excels in Banking and other related subjects.

The U. A. C. Women's Club offers each year a prize of \$10.00 for the best literary essay.

The Phi Upsilon Omricon Scholarship of \$50.00 is given annually by the Kappa Chapter of that organization to the freshman girl in the School of Home Economics ranking highest on the following points:

- (1) Scholarship.
- (2) Participation in student activities.
- (3) Service and cooperation.
- (4) Leadership.
- (5) Moral character.
- (6) Judgment and reliability.

In addition, the candidate must be a member of the Home Economics Club.

Alpha Kappa Psi Scholarship Award. Alpha Kappa Psi Fraternity, Alpha Theta Chapter of which is established at the Utah State Agricultural College, awards annually the Alpha Kappa Psi Scholarship Medallion to the male student of the Junior class in commerce who possesses the highest scholastic average for three year's work taken in this college.

The Gertrude Musser Howard Medal is to be awarded annually to a senior student in the School of Home Economics on the following basis:

- (a) Qualities of womanhood, as represented by health, physical and moral cleanliness, personality, cooperation, and leadership.
- (b) Application of home economics principles.
- (c) Scholastic attainment.

The Utah State 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.

An Annual Scholarship of \$25.00 will be awarded by the Chi Omega Fraternity to the girl majoring or minoring in the Social Sciences who gives evidence of Superior Scholarship, and ability to make a contribution to organized group life; and who writes the best 2000 word essay on a subject to be approved by a committee before the close of the fall quarter and to be finally submitted not later than April 15.

The committee of award shall be appointed by the Chi Omega Fraternity, each year, from the teaching staffs of the departments of Sociology and Economics.

Wright Short Story Award. Mr. C. E. Wright awards annually three prizes of \$25.00, \$15.00, and \$10.00, for the three best Short Stories submitted. These stories must have a western setting.

AWARDS OFFERED IN THE DIVISION OF ANIMAL HUSBANDRY

The Leadership Challenge Cup is a gift to the College by Kenneth C. Ikeler and is to be awarded each year to a Senior student in Agriculture who has exhibited the greatest measure of constructive organization and leadership in the School of Agriculture through his College course.

The John K. Madsen Challenge Cup is a gift to the College by John K. Madsen, Mt. Pleasant, Utah, and is awarded each year to the student who shows the most proficiency in the judging of sheep.

The Ogden Union Stock Yards Challenge Cup is a gift to the College by the Union Stock Yards Company of Ogden and is to be awarded each year to the student who shows the most proficiency in the judging of beef cattle.

The Hawaiian Steam Ship Company's Challenge Cup is a gift from the Hawaiian Steam Ship Company and is to be awarded each year to the student who shows the most proficiency in the judging of wool.

The Salt Lake Union Stock Yards Company Challenge Cup is a gift to the College by the Union Stock Yards Company of Salt Lake City and is to be awarded each year to the student who shows the greatest proficiency in the judging of hogs.

The John M. Richie Challenge Cup is a gift to the College from John M. Richie of Charleston and is to be awarded each year to the student who exhibits the most proficiency in the judging of horses.

The American Packing Company Challenge Cup is a gift to the College from the American Packing Company of Ogden and is awarded each year to the student who shows the most proficiency in the judging of meat.

Scholarship A's are given at the close of each year to the students who have "A" grades for the year.

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 catalogue.

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, seating about 1,500, the administrative offices of the College and the Experiment Station, 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 contains a main exercise hall, 114 by 70 feet, a smaller floor for women, a running-track, a hand-ball court, wrestling and boxing room, pool, shower baths and dressing rooms with steel lockers.

The Extension Service Building, noted for its friendly atmosphere, contains the offices of the Extension Service staff.

The Mechanic Arts Building, a two-story brick structure, with 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, thoroughly modern in plan and equipment, is occupied by the Departments 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 Library Building, cultural center of the College, is one of the best of its kind in this region. It is appealing in design and furnishings, and is fireproof.

The Plant Industry Building is a four story brick building, thoroughly modern in arrangement. It houses the departments of Agronomy, Botany, 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 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, stalls for patients, and up-to-date fixtures.

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

A modern heating plant recently renovated and enlarged 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 demonstrations.

The Physiological Laboratory is supplied with an excellent collection of native animals, skeletons, many enlarged models of organs, and complete slides of all the tissues.

The Zoological and Entomological Laboratory is equipped with 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 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. A full complement of standard machines is supplied.

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 names 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 material, casts from the old masters in sculpture, reproductions of great paintings, still-life models and draperies, and a valuable collection of ceramics, textiles, and books on art.

The Library occupies most of the space in the new building. It is the laboratory for every course given at the College, and contains 36,000 books, and a large number of pamphlets. The books are classified by the Dewey decimal system and there is a complete dictionary and catalogue. The shelf list, also on cards, forms a classified catalogue 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 catalogues. 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 beautiful and comfortable, and is provided with modern facilities for study.

CAMPUS AND FARMS

The land occupied by the College embraces about 155 acres. Of this, forty 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. A large athletic stadium located just north of the campus on a ten-acre tract of land affording a beautiful view of the

east mountains and Cache Valley, is an attractive place for U. S. A. C. athletic contests. 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. a. **Athletics, for men;**

b. **Athletics, for women.**

An intra-mural program, including all seasonal sports for which awards are given.

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

3. **Theatricals.** In the past, **She Stoops to Conquer, Pygmalion, Milestones, The Admirable Crichton, What Every Woman Knows, Twelfth Night, Hamlet,** 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.

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.

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 Scribblers' Club publish **The Scribble**; the Agricultural Club, the **Ag. Club Beehive**. Interest in journalistic work is stimulated by the presence on the campus of the 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.

DEPARTMENTS OF INSTRUCTION

(ARRANGED ALPHABETICALLY)

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|---|--|
| <p>Agricultural Economics and Marketing</p> <p>Agronomy and Soils</p> <p>Animal Industry</p> <p style="padding-left: 20px;">a. Animal Husbandry</p> <p style="padding-left: 20px;">b. Dairy Husbandry and Manufacturing</p> <p style="padding-left: 20px;">c. Poultry Husbandry</p> <p style="padding-left: 20px;">d. Veterinary Science</p> <p>Bacteriology and Biochemistry</p> <p>Botany and Plant Pathology</p> <p>Business Administration and Accounting</p> <p style="padding-left: 20px;">a. Accounting</p> <p style="padding-left: 20px;">b. Advertising and Selling</p> <p style="padding-left: 20px;">c. Business Administration</p> <p style="padding-left: 20px;">d. Secretarial Work</p> <p>Chemistry</p> <p>Child Development</p> <p>Economics</p> <p>Education</p> <p>English and Speech</p> <p>Engineering</p> <p style="padding-left: 20px;">1. Civil Engineering</p> <p style="padding-left: 40px;">a. Applied Mechanics and Design</p> <p style="padding-left: 40px;">b. Highways</p> <p style="padding-left: 40px;">c. Irrigation and Drainage</p> <p style="padding-left: 40px;">d. Mechanical Drawing</p> <p style="padding-left: 40px;">e. Surveying</p> | <p style="padding-left: 20px;">2. Agricultural Engineering</p> <p style="padding-left: 40px;">a. Rural Architecture</p> <p style="padding-left: 40px;">b. Farm Machinery and Farm Motors</p> <p style="padding-left: 20px;">3. Mechanic Arts</p> <p style="padding-left: 40px;">a. Auto Mechanics</p> <p style="padding-left: 40px;">b. Auto Ignition—Radio</p> <p style="padding-left: 40px;">c. Forging</p> <p style="padding-left: 40px;">d. Machine Work</p> <p style="padding-left: 40px;">e. Woodwork</p> <p>Foods and Dietetics</p> <p>Forestry</p> <p>Geology</p> <p>History</p> <p>Horticulture</p> <p>Household Administration</p> <p>Mathematics</p> <p>Military Science and Tactics</p> <p>Modern Languages and Latin</p> <p>Music</p> <p>Physical Education</p> <p style="padding-left: 20px;">a. For Men</p> <p style="padding-left: 20px;">b. For Women</p> <p>Physics</p> <p>Physiology and Public Health</p> <p>Political Science</p> <p>Psychology</p> <p>Sociology</p> <p>Textiles and Clothing</p> <p>Zoology and Entomology</p> |
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RECITATION TABLE

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

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

Courses of Instruction

AGRICULTURE AND FORESTRY

AGRICULTURAL ECONOMICS AND MARKETING

(Administered jointly by the Schools of Agriculture and Commerce)
W. P. THOMAS, Professor; W. U. FUHRIMAN, Associate Professor

Students in either the School of Agriculture or the School of Commerce may major in this department. The choice of school in which to register should be determined by the school in which the student intends to do his minor work.

Students intending to minor in the School of Commerce should see suggested outline of courses listed under the School of Commerce.

53. Principles of Agricultural Economics. A general study of the more important economic principles, forces and institutions affecting agricultural income, production, finance, prices, labor, land utilization, tenancy, tariff, etc.; the inter-relation of these factors; and the relation of agriculture to other industries. Prerequisite, Economics 51 or equivalent. Winter and Spring quarters. Three credits.

Fuhriman

62. Principles of Marketing. The principles of marketing, consumer demand, economic factors affecting sales, marketing agencies and sale policies, function of middlemen, channels of distribution, organized exchanges, and effect of government activities on distribution. Prerequisite, Economics 51. Spring quarter. Five credits.

Fuhriman

70. Farm Management. The keeping and analysis of farm accounts. This course deals with the keeping, use, interpretation, and analysis of farm accounts and records. The meaning of various measures of farmers' financial success, the methods of computing the common efficiency factors, etc., will be considered. Prerequisite, Economics 51. Spring quarter. Three credits.

Fuhriman

102. Principles of Farm Management. An analysis of the principles and problems of farm organization and management. A study of the problems of choosing, buying, organizing, and managing the various types of farms. Discussion of proper size, balance, diversity,

and the relationship between the various enterprises. Prerequisite, Economics 51. Fall quarter. Three credits.

Fuhriman

104. Economic Development of Agriculture. A historical analysis of agriculture through the various stages of its economic development with special reference to the United States. Fall quarter. Three credits. (Not given 1933-34, alternates with 106.)

105. Agricultural Finance. A study of agricultural credit with regard to requirements, facilities, instruments, and methods of financing agriculture. This involves an analysis of our present financial organization and its relation to agriculture. Special attention will be given to the agencies authorized by the Federal Government to provide financial aid and credit to farmers and farmers' organizations. Prerequisite, Economics 51. Fall quarter. Three credits.

Fuhriman

106. Land Economics. Principles underlying the utilization, valuation, tenure, and conservation of our land resources available for crops, pastures, and forests. Prerequisite, Economics 51. Fall quarter. Three credits.

Fuhriman

112. Cooperative Marketing. This course deals with the fundamental principles of cooperative marketing of agricultural products, the legal status of cooperation, and the growth and development of cooperative marketing in the United States as a whole. Emphasis will be given to the development of cooperative marketing in Utah and to the present problems of the cooperatives of the state. Winter quarter. Five credits.

Fuhriman

113. Cooperative Marketing. Same as 112 except that no laboratory is given. Winter quarter. Three credits.

Fuhriman

114. Marketing Fruits and Vegetables. Trends in production, consumption, and marketing fruits and vegetables in the United States as a whole and in Utah, together with special problems of over-production, local and foreign competition, quality of products, and transportation factors. Grading, inspection, and marketing methods will be given consideration. Prerequisite, Economics 51. Spring quarter. Three credits.

Fuhriman

116. Marketing Livestock and Livestock Products. The production and marketing factors as they relate to the marketing of livestock and livestock products with special reference to Utah's condition. Spring quarter. (Not given 1933-34, alternates with 114.)

120. Agricultural Prices. Relationship between production and prices of agricultural products; trends in prices of agricultural commodities in comparison with prices of non-agricultural products, and cycles in their relation to agriculture. State and national agricultural outlook as it applies to Utah will be given special consideration. The aim of the course is to make application of principles in prices, production and marketing to an agricultural program for the individual and the group. Prerequisite, Economics 51. Winter quarter. Three to five credits. (Not given 1933-34.)

121. Price Analysis. A more detailed course in price analysis than is given in 120. Emphasis will be given to the factors influencing price changes, physical volume of production, together with the affects of such changes upon the agricultural situation. Prerequisites, Economics 51 and Agricultural Economics 53 or Economics 52. Winter quarter. Three to five credits.

Thomas

191. Advanced Farm Management. A detailed farm management analysis, including methods of making surveys, collecting, tabulating, organizing, and analyzing data and a study of the application of results toward the improvement of the farm business. The student will be expected to do some actual field work and to analyze the farm management data in the laboratory. Prerequisite, Agricultural Economics 102. Winter quarter. Three credits.

Fuhrman

SUGGESTED COURSE OF STUDY FOR MAJORS IN AGRICULTURAL ECONOMICS IN THE SCHOOL OF AGRICULTURE

Students intending to major in Agricultural Economics should include Agricultural Economics 70 and 62 and Mathematics 75 in their sophomore year in addition to meeting the requirements for all students in the School of Agriculture. In order to do this English 11 and Agricultural Economics 53 should be taken before the spring quarter of the sophomore year.

JUNIOR YEAR

Course	Fall	Quarters	
		Winter (Hours)	Spring
Agricultural Economics 102.....	3		
Agricultural Economics 105.....	3		
Agricultural Economics 114 or 116.....			3
Agricultural Economics 120.....		5	
Economics 155		3	
Psychology 101	3		
Agronomy 117			4
Accounting 101	5		
Economics 135			3
Civil Engineering 149.....		3	
Agriculture*		3	
English or Language.....			4
Electives*	1-3	1-3	1-3

SENIOR YEAR

Course	Fall	Quarters	
		Winter (Hours)	Spring
Agricultural Economics 106 or 104.....	3		
Agricultural Economics 191		3	
Agricultural Economics 112		5	
Agricultural Economics 121		5	
Economics 145			2
Economics 140			3
Agriculture*	6		
Seminar Agricultural Economics 211, 212, 213	1	1	1
Research Agricultural Economics 210.....		2-3	2-5
Agricultural Economics 114 or 116.....			3
Electives*	5-7	0-1	3-6

*The courses to be selected will depend upon the special interest and need of the student and his minor subject. He should consult his major and minor professors in the selection of these courses.

AGRONOMY AND SOILS

R. J. EVANS, Professor of Agronomy; D. W. PITTMAN, Professor of Soils; A. F. BRACKEN, D. C. TINGEY, Assistant Professors.

1. **General Farm Crops**—Essentials in the production of principal field crops; designed as a general introduction to the field of farm crops. Fall or Winter quarters. Three lectures. Three credits.

Evans or Tingey

6. **Soils**—Review of the entire field of soils study; designed as a foundation course for all students of agriculture. Four lectures, Fall and Winter quarters. Four credits.

Pittman

101. **Cereal Crops**—The history, cultivation, production, and marketing of cereal crops; a basis for judging and grading plant products. Two lectures. One lab. Winter quarter. Three credits.

Bracken

102. **Root Crops**—Sugar beets, potatoes, mangels, turnips, other root crops, and beans; cultural methods, market types, and commercial possibilities are studied in detail. Two lectures. One lab. Fall quarter. Three credits.

Tingey

103. **Forage and Miscellaneous Crops**—Alfalfa, clovers, grasses and other forage; methods of handling hay; meadow and pasture management, and soiling crops are discussed. Two lectures. One lab. Spring quarter. Three credits.

Tingey or Evans

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. One lecture, two labs. Fall quarter. Three credits.

Tingey

105. **Seed Analysis and Testing**—Impurities of farm and garden seeds; methods of analysis and testing; the inspection and marketing of seeds. Not given except on application of two or more students. Any quarter. Two or more credits. Two or more laboratory periods a week. Time to be arranged.

Tingey

108. **Management of Arid Soil**—The composition, nature, and management of soils of arid regions; special attention to water re-

lations, alkali, rotations, and other problems in the management of arid soils. Prerequisites, Agronomy 6 and either Geology or Bacteriology 1, preferably both. Winter quarter. Two lectures, one lab. Three credits.

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, Genetics and Botany. Three lectures, one lab. Winter quarter. Four credits.

Tingey or Evans

110. **Soil Fertility**—Principles of soil fertility; fertilizers and their most productive use; review of experimental work in America and Europe. Prerequisites, Chemistry 10, and Agronomy 6. Spring quarter. Two lectures, one lab. Three credits.

Pittman

111, 112, 113. **Seminar**—Current agronomic literature; agricultural problems; assigned topics. Required of all seniors in agronomy; open also to juniors. Fall, Winter and Spring quarters. One credit each quarter.

Evans

114. **History of Agriculture**—Development of agriculture, with emphasis on practical and scientific phases; the successive steps by which modern agriculture has attained its present status. Winter quarter. Three credits.

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. Advanced students may obtain additional credit for extra work. Winter quarter. Three credits.

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. Three credits.

Evans

119. **Crop Products**—Nature, importance, and uses of various crop products; their physical and chemical nature, their effects on the market value of the crop; and their place in agricultural technology. Related soil problems are also discussed. Winter quarter. Three credits.

Bracken

207. **Soil Technology**—An advanced course in soil technology for students who wish fundamental work in soil science. A study of the formation, classification, and functions of soils in relation to their environments. Prerequisites, Bacteriology and Geology. Winter quarter. Two or more credits.

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. Three lectures, one lab. Winter quarter. Four credits.

Pittman

209. **Advanced Plant Breeding**—The science and practice of plant breeding. Original papers and lectures. Three lectures, one or more labs. Winter quarter. Three to six credits.

Evans

212. **Graduate Seminar**—Current scientific papers and topics in Agronomy. Fall, Winter or Spring quarter. One to three credits.

Evans

214. **History of Agriculture**—Development of scientific agriculture with emphasis on recent period. Original papers and lecture material. Winter quarter. Two to five credits.

Bracken

215. **Research Methods in Plant Production**—Analysis of research methods; reviews of the scientific literature. Open to approved senior college students. Spring quarter. Three credits.

Evans and Tingey

217. **Geography of Agriculture**—Relation of geography to production and to development of agriculture. Winter quarter. Two to five credits.

Evans

218. **Special Problems or Advanced Laboratory**—Students desiring to do advanced laboratory work, or to make a special study of any particular problem will make a complete study of available

literature on this problem under supervision of the instructor, and write a thesis. One to five credits. Any quarter.

Evans, Pittman, Tingey

230. **Research and Thesis** — Organizing and prosecuting a thesis, or a research problem without thesis. Any quarter. Two or more credits each quarter.

Evans, Bracken, Tingey, Pittman

**SUGGESTED COURSE OF STUDY FOR MAJORS IN
AGRONOMY AND SOILS**

Students intending to major in Agronomy and Soils should include Bacteriology 1 in their sophomore year in addition to meeting the requirements for all students in the School of Agriculture.

Junior Year

FALL		WINTER	
Agronomy 102	3	Agronomy 101	3
Agronomy 108	3	Agronomy 116	3
Agronomy 104 or 110		Agronomy 114 or 119	
Spring quarter	3	(not given 1933-34)....	3
Geology 12 (or Animal		A. H. 10 (or Geol. 12,	
Hus. 10, Winter quar.)	3	Fall quarter)	5
Ag. Econ. 102.....	3	Elective	3 to 11
Elective	2 or 5		
	<hr/>		<hr/>
	17		17

SPRING

Agronomy 103	3
Agronomy 110 (or 104	
in Fall quarter)	3
Math. 75	5
Elective	5 or 9
	<hr/>
	17

Senior Year

FALL		WINTER	
Agronomy 111	1	Agronomy 112	1
Zoo. 111	5	Agronomy 109	4
English 108	3	Agronomy 117	3
Botany 130	3 or	Botany 133	3 or
Forestry 162	4	Zoo. 14	4
Elective	5 to 8	Elective	5 to 9
	<hr/>		<hr/>
	17		17

SPRING

Agronomy 113	1
Agronomy 105	3
Ag. Eng. 12.....	4
Elective	9
	<hr/>
	17

ANIMAL INDUSTRY SECTION

The Animal Industry section includes the courses of instruction in the closely related special departments of Animal Husbandry, Dairy Husbandry, Dairy Manufacturing, Poultry Husbandry, and Veterinary Science.

ANIMAL HUSBANDRY

E. J. MAYNARD, GEORGE B. CAINE, Professors; HARRY H. SMITH, Associate Professor; A. C. ESPLIN, Assistant Professor.

The Department of Animal Husbandry offers instruction in the selection, breeding, feeding, management, and marketing of cattle, horses, sheep, and swine; in the slaughtering, cutting, and curing of meats, and in the production and grading of wool.

The following courses should be taken by students who major in Animal Husbandry: 1, 5, 10, 100, 105, and two of (110 115, 120, 125, 130) (140 or 145) 150, 155, 160, D. H. 109 or 110 and A. H. Seminar 180, 181 or 182. Courses in Dairy Husbandry, Dairy Manufacturing, Poultry Husbandry, and Veterinary Science may be used to strong advantage in the major. Accounting, Agronomy and Soils, Agricultural Economics and Marketing, Bacteriology, Botany, Commercial Law, Entomology, Farm Mechanics, Geology, Horticulture, Irrigation, Mathematics, Organic Chemistry, Physics, and Range are among the supporting courses most strongly recommended for graduation in Animal Husbandry.

1. **General Animal Husbandry**—The fundamentals of animal husbandry as applied to Utah conditions. Numbers and location of livestock, principal breeds of cattle, sheep, swine and horses. Simple breeding and feeding problems as well as general livestock management; studies and judging of commercial animals. For all students of agriculture and a prerequisite for Animal Husbandry 110, 115 and 125. Fall and Winter quarters. Three credits.

Smith and Caine

5. **Principles and Practices of Judging Livestock**—This is a course designed for students who wish to register for Animal Husbandry 160 and become candidates for the Livestock Judging team the following fall. Spring quarter. Two credits.

Smith

10. **Feeds and Feeding**—The principles of feeding and how animals digest and utilize feed. The balancing of rations and the feeding of horses, cattle, sheep, and hogs for economical production. Winter quarter. Five credits.

Maynard

100. **Breed Types of Livestock**—The origin, history, characteristics, and selection of the economic breeds of horses, cattle, sheep, and swine. Spring quarter. Five credits.

Smith and Caine

104. **Market and Breed Types of Livestock (For Forestry and Range Students)**—The practical selection and judging of commercial and breed types of horses, cattle, sheep and hogs. Spring quarter. Three credits.

Smith

105. **Market Classes and Grades of Livestock**—The commercial classes and grades of market cattle, sheep and hogs. Students will compile market quotations and will classify and evaluate animals for market. Prerequisite, A. H. 1 or 100. Spring quarter. Three credits.

Smith

110. **Beef Cattle Production**—The selection, feeding, and marketing of range and feeder cattle, and the management of the breeding herd of beef cattle. This course includes a trip to Ogden and Salt Lake Stock Yards for study purposes. Fall quarter. Three credits.

Smith

115. **Horse Husbandry**—A study of market types and the breeding, feeding handling and selling of draft and light horses. Spring quarter. Two credits.

Caine

120. **Swine Management**—The management of the breeding herd of hogs, feeding for market, and the fitting for show. The relation of the industry to dairy cattle farming. Winter quarter. Two credits.

Smith

125. **Sheep Husbandry**—A study of the methods of producing sheep for meat and wool under range and farm conditions. Also a study of sheep husbandry of the leading sheep producing countries of the world. Special emphasis is placed upon sheep and wool production upon the ranches and the farm. The farm sheep include small commercial herds, pure bred herds, and winter lamb feeding. Winter quarter. Three credits.

Esplin

130. **Wool Study**—A history of sheep and wool production. A study of zoological position of sheep, and the physical and chemical

structure of the wool fiber. The grading of wool, shrinkage, and a study of market reports. A study of the relation of quality in raw wool to quality in manufactured woolen products. Winter quarter. Three credits.

Esplin

140. **Fitting and Showing Livestock**—Proper methods for fitting and training livestock for show. Clipping, washing, curling, waving, carding, blocking and trimming as these practices are indicated for the various classes of livestock in the show ring. Spring quarter. One to three credits by arrangement.

Caine, Smith, Dryden

145. **Practical Problems in Livestock Production and Feeding**—This course affords the Animal Husbandry student an opportunity to plan a definite livestock enterprise based on subject matter acquired in previous agricultural courses. A study is made of the relationship of location, feed crops, general cropping system, and marketing facilities to the number and kind of livestock produced. Livestock selection, feeding and care, equipment, sanitation and marketing are points considered in the development of a plan in which each individual outlines a definite livestock operation. Winter quarter. Three credits.

Smith

150. **Animal Nutrition**—The anatomy and physiology of the digestive tract, digestion, metabolism, and energy balances. The essential vitamins, deficiency diseases, and the value of minerals in an adequate ration. Prerequisites, An. Hus. 10, Chemistry 10, 11 and 12 and Veterinary Physiology. Winter quarter. Five credits.

Maynard

155. **Animal Breeding**—The principles and practices of livestock improvement. A study of heredity, variation, selection, breed analysis, and herd synthesis, inbreeding, outcrossing, and cross breeding. Prerequisite, Zoology 111 (Genetics). Spring quarter. Four credits.

Smith

160. **Advanced Stock Judging**—The comparative judging of breeding and market horses, cattle, sheep, and swine to prepare students for officiating at livestock shows. Herds away from the college will also be studied for the purpose of selecting a livestock judging team. Fall quarter. Four credits.

Smith

165. **Advanced Wool**—This course is a study of wool as a finished product of the ranch and farm, considering the fleece as a unit. The study includes the physical and chemical properties of the wool fiber, grading and sorting, explanation of terms used in market reports, and determination of shrinkage. Consideration is given the world wool supplies, such as fleece wools, pulled wools and reworked or shoddy wools. Visits to Logan City Knitting Factories and Brigham City Woolen Mills are included. Prerequisites, Chemistry 10, 11 and 12. Winter quarter. Three credits.

Esplin

170. **Farm Meats and Meat Products**—The slaughtering of farm animals and the cutting and curing of meats on the farm. Trips will be taken to local meat shops and to the Ogden and Salt Lake packing houses. The students will evaluate the animals on foot and measure their judgment in the dressing per cent, and quality of the product in the carcass. Winter quarter. Three credits.

Smith

175. **Selection of Meats for the Household**—A study of the principles and practice in the selection of quality meats for the table. This course is open for women students. Winter quarter. Two credits.

Smith

180-181-182. **Animal Husbandry Seminar**—Reports and discussion of current literature and research in Animal Husbandry, by students and faculty members. Fall, Winter, and Spring quarters. One credit each quarter.

Smith

200. **Graduate Research**—Students working towards a graduate degree in Animal Husbandry are required to conduct research in some branch of the subject. Any quarter. Time and credit by arrangement.

Animal Husbandry Staff

203. **Scientific Meat Studies**—A study in the cutting and curing of meats; for senior college and graduate students. It emphasizes the physical structure and the chemical composition of meats, and their relationship to nutritional qualities. Prerequisite, Organic Chemistry. Winter quarter. Time and credit by arrangement.

Smith

204. **Wool Problems**—Research work in wool. Winter quarter.

Esplin

205. **Special Problems**—This is a survey of the research conducted in the breeding or feeding of livestock. Prerequisite, Animal Husbandry 150 and 155. Spring quarter. Three credits.

Maynard, Esplin, Smith

207. **Animal Experimentation**—The organization of livestock experiments. Time and credit by arrangement.

Animal Husbandry Staff

210. **Graduate Thesis**—The outlining, prosecuting and summarizing of Animal Husbandry research data for a thesis. Two to five credits each quarter.

215. **Graduate Seminar**—Weekly check-up and report on graduate work.

Maynard, Esplin, Smith

SUGGESTED COURSE OF STUDY FOR MAJORS IN ANIMAL HUSBANDRY IN THE SCHOOL OF AGRICULTURE

Students who plan to major in Animal Husbandry should take Animal Husbandry 5 and 10 during their first two years in addition to the regular courses prescribed for all students in the School of Agriculture.

Course	Junior Year		
	Fall	Winter	Spring
Animal Husbandry 110.....	3	--	--
Animal Husbandry 160.....	4	--	--
Animal Husbandry 120.....	--	2	--
Animal Husbandry 125.....	--	3	--
Animal Husbandry 170.....	--	3	--
Animal Husbandry 100.....	--	--	5
Speech 1.....	3	--	--
Dairy 109.....	3	--	--
Mathematics 75.....	--	--	5
Agronomy 110.....	--	--	2
Total	13	8	12
Electives.....	4	9	5

Course	Senior Year		
	Fall	Winter	Spring
Animal Husbandry 180, 181, 182.....	1 or	1 or	1
Animal Husbandry 150.....	--	5	--
Dairy Husbandry 109.....	--	--	--
Animal Husbandry 105.....	--	--	3
Animal Husbandry 155.....	--	--	4
Agricultural Economics 105.....	3	--	--
Agricultural Economics 113.....	--	5	--
Zoology 111.....	--	5	--
Chemistry 111.....	--	--	5
English 108.....	5	--	--
Total	10	16	13
Electives.....	7	1	4

DAIRY HUSBANDRY AND MANUFACTURING

GEORGE B. CAINE, Professor; A. J. MORRIS, Assistant Professor

Students majoring in Dairy Husbandry must complete the following major courses for graduation. Dairy 1, 5, and 6; Animal Husbandry 1, 10, 150, 155, 160, as well as all courses listed in the Department of Dairy Husbandry. Chemistry 107, 108, and Bacteriology 104 will also be required. Courses in Botany, Crops, Accounting, Advertising, English and Mechanics should be followed carefully to fill other groups.

1. **General Dairy**—Designed for students who desire a short, general course in dairying. Especially taught for students majoring in other departments of the School of Agriculture, for Smith-Hughes students and for prospective county agents. The following will receive consideration: history and present status of the dairy industry, the Babcock test for milk and cream, the manufacture of some dairy products; kinds, uses and care of farm utensils, best and most sanitary methods of handling milk, methods of starting dairy herds, breeds of cattle, cow testing associations and testing circles, bull associations, advanced registry, boys' and girls' clubs and herd records. Fall and Winter quarters. Three credits.

Caine and Morris

2. **Dairy Farming**—A general course in dairy production designed for all students in the School of Agriculture wanting further training in this phase of dairying. A study of the bases for successful dairy farming and the important economic factors in the production of milk. Various systems of housing and herd management. Winter quarter. Three credits.

Caine

12. **Breeds of Dairy Cattle**—Study of history and development of all breeds of dairy cattle. Special emphasis on the various families within the breeds. Requirements for official testing. Pedigree and Herd Book Study. Fall quarter. Four credits.

Caine

109. **Dairy Production**—A brief review of dairy farming and the dairy breeds. Ways of starting a dairy herd, system of herd records, selection and management of herd sires, calf feeding and management, developing dairy heifers. Winter quarter. Three credits.

Caine

110. **Dairy Production**—A study of pure bred cattle breeding. Care and management of dairy sires. Special emphasis on feeding for milk production. A brief study of metabolism and the charac-

teristics of feeds and feeding standards. A thorough study of housing dairy cattle. Prerequisite, Dairy Production 109. Spring quarter. Five credits.

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. Prerequisite, Animal Husbandry 1 and 100, or Dairy Husbandry 12. Spring quarter. Two credits.

Caine

115. **Seminar**—Discussion and reports of current literature. Time and credit to be arranged.

Staff

150. **Special Problems**—A course for students wishing to study certain specialized phases of the dairy industry. Reading of recent research literature and a certain amount of individual investigational work required. This course requires a thesis. Students majoring in Dairying are required to carry at least six hours of this course during their senior year. Any quarter. Time and credit to be arranged.

Staff

216. **Research**—Original research work on problems in the dairy industry. Graduate students only. Any quarter. Time and credit to be arranged.

Staff

DAIRY MANUFACTURING

A prescribed course is set up for students majoring in Dairy Manufacturing. Students should study this course rather carefully and adhere to it as closely as possible. It is expected that students spend at least six months in a commercial dairy manufacturing establishment before graduation. It is strongly recommended that more than six months be spent in dairies if possible. This can usually be arranged by securing summer work through the department. Very good cooperation exists between the department and the commercial dairies, and frequent trips are made to them during this course of study.

4. **Dairy Mechanics**—A study of the selection, construction and operation of dairy equipment, steam boilers and refrigeration systems. Spring quarter. Four credits.

Morris

5. **Testing and Judging Dairy Products**—Methods and practice in judging, testing, and analyzing dairy products for market quality and adulterations. Spring quarter. Two credits.

Morris

6. **Market Milk**—Modern sanitary methods of producing, processing and marketing milk and cream for city supply. Fall quarter. Three credits.

Morris

101. **Manufacture of Ice Cream and Ices**—Purchase of raw materials. Chemical and physical structure of an ice cream mix and its relation to the finished product. Standardizing and processing of standard commercial ice creams, sherbets and ices. Spring quarter. Five credits.

Morris

102. **Manufacture of Butter**—Receiving and grading of milk and cream. Neutralization and pasteurization of cream. Manufacture, packing and grading of butter under commercial conditions. Quality and composition control will be emphasized. Winter quarter. Five credits.

Morris

103. **Manufacture of Cheese**—A study of the factors involved in the manufacture of cheese. Cheddar, Colby, cottage cheese and casein are manufactured and studied in detail. Fall quarter. Five credits.

Morris

104. **Manufacture of Condensed and Dried Milk**—Purchasing and grading milk. Modern methods of manufacture. Winter quarter. Five credits.

Morris

105. **Management and Operation of Dairy Manufacturing Plants**—Forms of organization of dairy manufacturing enterprises. Personal problems, advertising, selling, managerial use of accounting records and other principles underlying successful management and operation are considered. All operations of the creamery are conducted by this class. The manufacturing work is divided into eight departments and a student is placed in charge of each department for one month at the end of which time he is rotated to a new one until he has had experience in every department. A business and operation report is made by each student at the end of each month. The class is limited to 10 students, each of whom must pass a physical examination, be of Senior College standing and have above an average of "C" grade for his Junior College work. Application for

admittance must be made in writing. Fall, Winter and Spring quarters. Two credits each quarter. One lecture, one lab. Time to be arranged.

Morris

106. **Varieties of Cheese**—A study of the history, importance and manufacture of some of the most common varieties of cheese found on the American markets besides those of the Cheddar group. Three lectures, two lab. Winter quarter. Five credits. (Not given in 1933-34.)

Morris

SUGGESTED COURSE OF STUDY FOR MAJORS IN DAIRY MANUFACTURING

Students intending to major in Dairy Manufacturing should include Dairy 1, 4, 5, and 6, Business Administration 1 and 51, and Bacteriology 1, in their freshman and sophomore years, in addition to meeting the other requirements for all students in the School of Agriculture. It is advisable therefore to take Dairy 1 and Business 1 in the freshman year.

Course	Junior Year		
	Fall	Winter	Spring
Chemistry 107.....	5	5	--
Dairy 105.....	2	2	2
Dairy 103.....	5	--	--
English (student's choice).....	5	--	--
English (student's choice).....	--	5	--
Dairy 102.....	--	5	--
Dairy 150.....	--	--	2
Dairy 110.....	--	--	5
Bacteriology 104.....	--	--	5
Elective.....	--	--	3
	17	17	17

Course	Senior Year		
	Fall	Winter	Spring
Dairy 150.....	2	2	--
Business 101.....	5	--	--
Dairy 115.....	1	1	1
Dairy 104 or Dairy 106.....	--	5	--
Agri. Economics 120.....	--	3	--
Dairy 101.....	--	--	5
Electives.....	9	6	11
	17	17	17

POULTRY HUSBANDRY

BYRON ALDER, Professor

1. **General Poultry**—A study of breeds, judging, breeding, incubation, brooding, housing, feeding, marketing. Designed to meet the needs of the students wishing a general knowledge of the poultry industry and the problems of production, and a foundation upon which other courses are built. Three lectures. Winter or Spring quarter. Three credits.

Alder

2. **General Poultry, Laboratory**—Covers the same work as Poultry 1 with practical laboratory problems. Winter or Spring quarter. One credit.

Alder

3. **General Poultry**—The course is planned to meet the needs of Home Economics students. Not given unless six students apply. Spring quarter. Two credits.

Alder

8. **Turkey Raising**—A study of the breeds, breeding, feeding, marketing, etc. Winter quarter. Two credits.

Alder

10. **Poultry Practice**—Elementary practice at the poultry yards. Time and credit to be arranged. Prerequisite, Poultry 1.

Alder

Poultry Diseases—(See Veterinary Science 70).

104. **Incubation and Brooding**—Practice work with incubator and a study of the factors which influence the hatching quality of eggs and the raising of chicks. Prerequisite, Poultry 1. Spring quarter. Two credits.

Alder

105. **Poultry Management**—The housing, care, feeding, and management of different breeds under western conditions. Prerequisite, Poultry 1. Winter quarter. Three credits. (1934-35.)

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. (1933-34.)

107. **Poultry Feeds and Feeding**—A study of nutrition problems; the feeds and methods of feeding. Prerequisite, Poultry 1. Winter quarter. Three credits.

*Alder**Alder*

125. **Special Problems**—Special assignment to work out certain assigned information on special problems. Prerequisites, Poultry 1, 104 and 105. Time and credit to be arranged.

Alder

126. **Seminar**—Current poultry literature studies; assigned problems and special topics. Winter quarter. One credit.

Alder

127. **Advanced Poultry Practice**—Special practice at the poultry yards. Prerequisite, Poultry 1, 104, and 105. Time and credit to be arranged.

Alder

VETERINARY SCIENCE

D. E. MADSEN, H. J. FREDERICK, Professors

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, Winter or Spring quarter. Three credits.

Frederick

15. **Indications of Disease in Animals**—General appearance, nursing, restraint, conformation and soundness, and post-mortem demonstrations. Winter quarter. Three credits.

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, illustrated by skeletons and models. Fall, Winter and Spring quarters. Three credits each quarter. Given if ten 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. Fall, Winter and Spring quarters. Three credits each quarter. Any or all quarters may be taken.

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. Fall, Winter, and Spring quarters. Hours and credits to be arranged.

Madsen

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 diseased. Winter quarter. Three credits.

Frederick

70. **Poultry Diseases**—The common diseases affecting poultry in this region. Symptoms, diagnosis, prevention, and treatment. Lectures and practical demonstrations. Winter quarter. Three credits.

Frederick

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. Lectures and Lab. Winter or Spring quarter. Four credits.

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 Spring quarters. Three credits each quarter. (Given if 10 students apply.)

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. (Given if 10 students apply.)

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 quarter. Two credits each quarter.

Frederick

BOTANY AND PLANT PATHOLOGY

B. L. RICHARDS, Professor; F. B. WANN, Associate Professor; BASSETT MAGUIRE, Assistant Professor; H. L. BLOOD, Plant Pathologist and Agent in Cooperation with the U. S. Department of Agriculture.

Botany 1, 2, 3, 30, 116, 120, 130, 131, 150 and 240 or equivalent required for students majoring in Botany.

Botany 1, 2, 3, 116, 120, 122, 130, 131, 133, 135, 150 and 240 or equivalent required for students majoring in Plant Pathology.

1, 2, 3. **General Botany**—A general course in plant biology dealing with the structure, nutrition, growth, reproduction, and relationship of plants. Continuous through three quarters. Consideration will be given successively to: anatomy and function of the flowering plants; comparative study of representatives of the plant kingdom from an evolutionary point of view; inheritance; and recognition of important vascular plant families. Two lectures and one lab. Three credits each quarter.

Maguire

23. **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. Prerequisite, Botany 1, 2, 3. Three lectures, two labs. Spring quarter. Five credits. (Not given 1933-34.)

Maguire

30. **Taxonomy of Vascular Plants**—A fundamental course dealing with the kinds, relationship, and classification of the vascular plants chiefly of this region. Prerequisite, Botany 1, 2, 3 or equivalent. Spring quarter. Two lectures, two labs. Four credits.

Maguire

102. **Advanced Taxonomy**—A continuation of course 30. Any quarter or summer. By special arrangement. Time and credit to be arranged.

Maguire

116. **Histological Technique**—Methods of killing and preserving botanical specimens and the preparation of permanent sections of plant material. Designed especially for teachers of Botany and research students. Time and credit to be arranged. Any quarter.

Staff

120. **Elementary Plant Physiology**—A course dealing with fundamental principles of absorption, mineral nutrition, food manufacture, metabolism, translocation, and growth. Prerequisite, Botany 1, 2, 3. Should be preceded or accompanied by organic chemistry. Three lectures, two labs. Spring quarter. Five credits.

Wann

122. **Advanced Plant Physiology**—Special problems in mineral nutrition, water relations and toxicity. A study of the abnormalities in plant growth caused by physiological disturbances. Prerequisite, Botany 120. Winter quarter. Three credits. (Not given 1933-34.)

Wann

124. **Plant Chemistry**—Chemical reactions and transformations underlying the vital processes in plants. Alternates with 122. Three lectures. Winter quarter. Three credits.

Wann

126. **Plant Ecology**—Distribution and structure of plants as affected by environment. Prerequisite, Botany 1, 2, 3, 30, and 120. Two lectures and 2 labs. Fall quarter. Four credits.

Maguire

130. **Principles of Plant Pathology**—Fundamental principles underlying diseases in plants. The types of diseases and methods of study are such as will give the student a comprehensive view of the subject of plant pathology. Prerequisite, Botany 1, 2, 3. One lecture, two labs. Fall quarter. Three credits.

Richards

131. **Truck Crop Diseases**—Diseases of vegetable crops with special emphasis on the factors underlying their cause, development and control. Prerequisite, Botany 130. Winter quarter. One lecture, two labs. Three to five credits. (Not given 1933-34.)

Richards

133. **Field Crop Diseases**—Diseases of cereal and forage crops. Prerequisite, Botany 130. One lecture, two labs. Winter quarter. Three to five credits. To alternate with Botany 131.

Richards

135. **Orchard Crop Diseases**—Diseases of orchard and small fruits. Prerequisite, Botany 130. One lecture, two labs. Winter quarter. Three to five credits. To alternate with Botany 140.

Richards

140. **Forest Crop Diseases**—Study of nature, cause, and control of diseases, and decay of forest trees and woods. Prerequisite, Botany 150. One lecture, two labs. Winter quarter. Three credits. To alternate with Botany 135. (Not given 1933-34.)

Richards

150. **Mycology**—Morphological and taxonomic relations of fungi with emphasis on economic forms. Prerequisite, Botany 1, 2, 3. Fall quarter. One lecture, two labs. Three credits. (Not given 1933-34.)

Richards

160, 161, 162. **Laboratory Methods**—Open to qualified senior or graduate students majoring in Botany. Any quarter. Two credits.

Staff

221. **Pathological Technique**—Special cultural methods as applied to Plant Pathology, Physiology, and related subjects. Students may register for courses 221 and 222 only by special permission. One lecture, three labs. Winter quarter. Three or five credits.

Richards and Wann

222. **Photographic Technique**—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, two labs. Winter quarter. Three credits.

Richards

234, 235, 236. **Special Problems**—Open to qualified students majoring in taxonomy, plant physiology, or plant pathology. Any quarter. Two to four credits.

Staff

240, 241, 242. **Seminar**—Fall, Winter, and Spring quarters. Two credits each quarter. Time to be arranged.

Staff

250. **Research**—Open to all qualified senior college students in Taxonomy, Physiology, and Pathology. Any quarter.

Staff

GENERAL COURSE IN AGRICULTURE WITH MINIMUM REQUIREMENTS FOR MAJOR IN BOTANY

Freshman and Sophomore

The following Junior College courses are required in addition to those required by the School of Agriculture: Botany 3, Spring quarter, Freshman year; Mycology (Botany 150), Spring quarter, Sophomore year; Taxonomy (Botany 30) and Bacteriology, Spring quarter, Sophomore year.

Junior

FALL

Plant Pathology 130..... 3

Genetics 111 4

WINTER

Botany 131 3

Plant Breeding 5

Feeds and Feeding 4

SPRING

Botany 120 5

Minor or Math. 75 5

Social Science 3

Irrigation and Drainage 4

Senior

FALL

Plant Pathology 133 3

Language 5

WINTER

Seminar 2

Language 5

SPRING

Botany 116 3

Seminar 2

HORTICULTURE

FRANCIS M. COE, A. L. WILSON, Assistant Professors

The State of Utah and the Intermountain and Pacific Coast regions offer excellent commercial opportunities to men with fundamental and practical horticultural training. The wide variety of fruit and truck crops for market and cannery offer excellent possibilities for college-trained men who plan to farm. The widespread interest in beautification makes the allied fields of landscape gardening, floriculture, and nursery business attractive to qualified men and women. Opportunities are also open in high school Smith-Hughes and college teaching, in inspection and regulatory work, in experiment station and extension work, in the government service, and in many allied industries, such as seed, nursery, spray material, agricultural journalism, and fruit and vegetable marketing.

Major, minor, or elective work is offered in Pomology (fruit culture), Vegetable Crops, and Landscape Gardening and Floriculture. Emphasis is placed on the practical art, as well as on the fundamental science of Horticulture. Work in laboratories, greenhouses, gardens, and orchards of the College and surrounding country is used to supplement the lectures and recitations, and field trips are made to commercial fruit and truck farms to study practical problems at first hand.

Students majoring in Horticulture should, in addition to the junior college courses in this department, secure a thorough grounding in Chemistry (including organic), Botany and Plant Pathology, Entomology, and Soils in preparation for advanced work in Horticulture. Courses in Agronomy, Animal Husbandry, Dairy and Poultry Husbandry, Agricultural Economics and Marketing, Irrigation and Drainage, and Farm Mechanics are especially suitable to accompany course work in Horticulture. Courses in speech and writing are also advised. Students are urged to confer with the departmental staff in arranging their courses of study.

For a major in Horticulture the following courses are required: Horticulture 1 or 4, 101, 105, 151, 152, 205 or 210 and Seminar.

1. **General Horticulture**—This course, which covers in an introductory way the field of horticulture, may be used to satisfy the orientation course requirement in the School of Agriculture. Lecture, recitation, and laboratory work on the outlook, opportunities and methods of profitable fruit production in the intermountain region. Brief lectures on vegetable gardening, plant propagation, landscape gardening and floriculture. Participation in the annual Horticultural and Crops Show is required. Two lectures, one lab. Sec. 1, Fall quarter. Sec. 2, Spring quarter. Three credits.

Coe

3. **Landscape Gardening**—Theory and practice of laying out and beautifying home grounds in the city and on the farm. Trees, shrubs, vines, perennial and annual flowers and their use in ornamental gardening. Garden appreciation. This course is designed to meet the needs of women as well as men students and should be particularly valuable to teachers. Two lectures, one lab. Spring quarter. Three credits.

Coe

4. **Vegetable Crops**—In this course special emphasis will be placed on (a) types of vegetable production and factors underlying the industry; (b) location and plan of the home and commercial garden; (c) garden soils, soil management and garden fertility; (d) seeds and seed growing; (e) plant growing and plant growing structures; (f) harvesting, handling and storage of vegetables. Varieties and cultural practices for individual crops will receive only brief attention (see Course 105). Two lectures, one lab. Winter quarter. Three credits.

Wilson

5. **Plant Propagation and Greenhouse Practice**—Principles and methods of propagation of plants. One lecture, one lab. Should be preceded by Botany 1. Fall quarter. Two credits. (Given alternate years; not given 1933-34.)

Coe

6. **Greenhouse Practice**—Reports and practice work on the propagation and culture of greenhouse ornamental plants and floral crops. One lecture, one lab. Winter quarter. Two credits. (Alternates with Hort. 8; not given 1933-34.)

Coe

7. **Garden and Nursery Practice**—Reports and lectures on nursery management, culture of ornamental trees, shrubs, vines and flowers; tree surgery; practical work in the ornamental garden and nursery. Annual landscape trip required. One lecture, one lab. Spring quarter. Two credits. (Alternates with Hort. 9; not given 1933-34.)

Coe

8-9. **Vegetable Forcing**—Principles of greenhouse construction, heating and management, with special emphasis on vegetable forcing. Prerequisite, Hort. 4. One lecture, one lab. Winter and spring quarters. Two credits each quarter. (Given in alternate years.) Will not be given for less than six students.

Wilson

101. **Orchard Management**—Lectures and reports on problems of orchard management including establishing orchards, varieties and their selection, propagation, soil management, pruning, thinning, etc., accompanied by laboratory work and field trips. Participation in the annual Horticultural and Crops show required. Three lectures, 1 lab. Fall quarter. Four credits. (Given 1933-34 and alternate years.)

Coe

105. **Major Vegetable Crops**—This course includes a brief discussion of the origin, commercial importance, culture and varieties of all vegetable crops. However, special emphasis will be placed on those crops of major importance, particularly those grown in Utah, such as the canning crops, onions, cabbage, celery, etc. Hort. 4 and Agronomy 1 should precede this course, although they are not required. Two lectures, one lab. Fall quarter. Three credits.

Wilson

107. **Spraying**—Fungicides and insecticides used in the control of fruit and vegetable insects and diseases; their preparation, properties and use in spraying; spray machinery and equipment, dusts and dusting; spray schedules; economics of spraying; fumigation; rodent control. Laboratory work in the preparation, mixing and application of spray materials. Prerequisites, Chem. 3 and 4, Botany 130 (Plant Pathology); and Zool. 14; (Ec. Entomology). Three lectures, 1 lab. Winter quarter. Four credits.

Coe

108. **Small Fruits**—Commercial and home culture of strawberries, blackberries, raspberries, gooseberries, currants and grapes. This course will include a general survey of the industry with emphasis on the following phases: (a) the location of vineyards and berry-plantations; (b) soils, including management, irrigation and fertility; (c) propagation, planting and culture; (d) pruning and training; (e) harvesting and preparation for market. Spring quarter. Three credits. (Given 1933-34 and alternate years.)

Wilson

109. **Horticultural Products**—Study of manufacturing processes used in the utilization of fruits and vegetables. Canning, dehydration, beverages, vinegar making, fruit confection and by-products. Laboratory work in preparation of products, and trips to canneries and by-products plants. Two lectures, one lab. Fall quarter. Three credits.

Coe

110, 111. **Orchard Practice**—Field work in seasonal orchard operations. Fall quarter includes picking, grading and packing of fruits, and field trips to orchards. Spring operations are pruning, renovation, grafting, planting, spraying, cultivation, irrigation, and thinning. Must be preceded or accompanied by Hort. 1 or 101, Orchard Management. Fall and Spring quarters. One credit each quarter.

Coe

120. **Advanced Landscape Design**—Continuation of Course 3. Students work on assigned projects under supervision of instructor. Prerequisites, Hort. 3, Art 4 or Mechanical Drawing (C.E. 61). Winter quarter. Two credits.

Coe

125. **Plant Materials**—The identification, adaptation and characters of ornamental trees, shrubs, vines, perennial and annual flowers used in landscape gardening. Prerequisite, Hort. 3, Botany 30. One lecture, one lab. Landscape trip required. Spring quarter. Two credits.

Coe

130. **History and Literature of Horticulture**—Brief study of the history of horticulture and survey of the literature to acquaint students with sources of horticultural knowledge. Winter quarter. Two credits. (Alternated; not given 1933-34.)

Coe

131. **Subtropical Fruits and Nut Culture**—Culture of citrus fruits, avacados, figs, dates, bananas, and other tropical and sub-

tropical fruits; walnuts, almonds, filberts, pecans, and other nuts. Winter quarter. Three credits. (Alternated; not given 1933-34.)

Coe

151. **Systematic Pomology**—Varieties of fruits; their classification identification, and adaptation; critical study of many varieties of fruits; the more important fruit groups and their inter-relationships. Breeding and improvement of fruit plants. Practical work in variety identification, fruit exhibition and judging. Assigned readings on fruit varieties. Participation in the Horticultural and Crops Show required. Prerequisites, Hort. 1, Botany 30. Fall quarter. Five credits. (Not given 1933-34.)

Coe

152. **Commercial Pomology**—Problems dealing with the handling and marketing of fruits, including picking, grading, packing, transportation, storage, distribution and sale; study of buildings and equipment for packing and storing fruit; roadside and local marketing. Hort. 110, Orchard Practice should precede this course. Prerequisite, Hort. 1 or 101. Winter quarter. Five credits. (Not given 1933-34.)

Coe

153, 154. **Seminar**—Reports on research work and presentation of original papers. Two lecture periods. Fall and Winter quarters. Two credits each quarter. (Given 1933-34 and alternate years.)

Coe, Wilson

155. **Special Problems**—Studies of advanced problems in Pomology, Landscape Gardening, or Vegetable Crops for qualified senior or graduate students. Problem or subject to be selected by student. Assigned readings and research work in library, laboratory, greenhouse or field, presented as term papers. Registration by permission only. Two to five hours credit.

201, 202, 203, 204-a, 204-b. **Research**—Original research on horticultural problems for graduate students qualified to do investigational work in Horticulture, to be presented as graduate thesis for major or minor credit. Graduate thesis work may be used in partial fulfillment of requirements for the Master of Science degree, with major or minor in Horticulture. Re-registration until problem is completed. Registration by permission only. Course 201, Fall quarter; 202, Winter quarter; 203, Spring quarter; 204-a and 204-b, Summer Session and Intersession, respectively. Three to ten credits.

Staff

205. **Advanced Vegetable Crops**—A consideration of the economic, ecological and physiological factors underlying vegetable production, based on a study of experimental results. Original papers will be used in lieu of a text. Prerequisites, Hort. 4, 105, Agron. 6, Botany 120. Chemistry 21 and 22 and Bacteriology 111 are also desirable. Open only to graduate students and qualified seniors. Winter quarter. Five credits. (Given 1933-34 and alternate years.)

Wilson

210. **Fundamentals of Fruit Production**—Fundamental principles and practices as developed by research in horticultural science. Geography, climatic factors, propagation, water relations, nutrition, soil management, pruning and training, fruit setting. Practical applications of fundamentals are considered. Prerequisites, Botany 1 and 2, Chemistry 3, 4 and 21-22, Agronomy 6 (soils). Winter quarter. Five credits. (Given 1933-34 and alternate years.)

Coe

253, 254. **Graduate Seminar**—Reports on recent research work and current topics, presentation of original papers on selected topics. Open to qualified graduate students. Fall and Winter quarters. Two credits.

Coe, Wilson

SCHOOL OF FORESTRY

T. G. TAYLOR, Professor; R. J. BECRAFT and PAUL M. DUNN, Associate Professors;, Instructor.

The School of Forestry was formed from the department of forestry and range and received its new status in 1933.

The course of study constitutes four years training for forestry and range students including completion of the courses as outlined and attendance at summer camp the first session of which is planned for the summer of 1935.

It is the aim of the curricula of this school to train men for private or government work in (1) technical forest management, (2) technical range management, and (3) to provide the basic courses necessary for major work in game management.

In cooperation with the Utah Extension Service a forest tree distribution program has been operating for three years. The presence of a forest nursery, situated on the campus, furnishes a considerable amount of work for students of the school.

The fortunate geographical location of the School of Forestry, the opportunity for self help and the great need for better management of forests, range and game resources provide a happy combination of circumstances and opportunities for training in these fields.

Summer Camp

Eight weeks. Following the junior year, all students majoring in forestry or range are required to spend eight weeks in camp on the department forest. The entire time will be devoted to field work in mensuration, silvics, silviculture and range. Twelve hours credit for summer camp will be allowed. The first summer camp is planned for 1935.

Staff

Basic Courses

The course for the first two years is practically the same for all majors with opportunity at present for specialization in either forestry or range the last two years. The basic courses are as follows:

OUTLINE OF BASIC COURSES IN FORESTRY AND RELATED RESOURCES

Freshman		F.	W.	S.
Freshman Composition	Eng. 10			5
General Economics	Econ. 51			5
General Botany	Botany 1, 2, 3	3	3	3
Vertebrate Zoo.	Zoo. 4		5	
College Algebra, Trigonometry.	Math. 34, 36	5	5	
General Physics	Phys. 1	5		
Market & Breed Types of				
Livestock	A. H. 4			3
Dendrology I, Fire Protection.	For. 12, 18	3	3	
Typewriting	Bus. Adm. 86, 87, 88	1	1	1
		17	17	17
Sophomore		F.	W.	S.
Sophomore Composition	Eng. 11		4	
Systematic Botany	Bot. 30			4
Forest Geology	Geol. 12	5		
Soils	Agron. 6		4	
	Chem. 3, 4, 21			
Inorg. and Organic Chem.	or 10, 11, 26	5	5	5
Plane Surveying Mapping	AE 1, CE 83, AE 2	4	2	4
Logging and Milling, Dend. II.	For. 25, 13	3		4
Elective			2	
		17	17	17

Sophomore Range—Same as Sophomore Forestry except omit Logging and Milling, For. 25.

Sophomore Game Management—Same as Sophomore Range with the omission of Dendrology II, For. 13.

ELECTIVE COURSES — FORESTRY AND RANGE

Required:

Language	9 credits
Social Science	5 credits

FORESTRY

T G. TAYLOR, Professor; R. J. BECRAFT and P. M. DUNN, Associate Professors;, Instructor.

Upon completion of the basic courses and the major work as outlined in forestry, students are granted the degree of bachelor of science in forestry.

12. **Dendrology I**—Important American species of Gymnosperms: character, identification, economic importance, distribution. Two lectures, one lab. Occasional field trips. Fall quarter. Three credits.

Becraft

13. **Dendrology II**—Same as Dendrology I except for broad leaved trees. Three lectures, one lab. Field trips. Spring quarter. Four credits. (Not given 1933-34.)

18. **Fire Protection**—The organization problem in forest fire protection. The proper method of attack to control fires. The course is aimed to fit one to take a definite place in a fire organization. Three lectures. Winter quarter. Three credits.

Taylor

25. **Logging and Milling**—Various methods of handling timber from the tree to the mill for different forest regions of the U. S. The manufacture of lumber and other sawed products from logs. Three lectures. Fall quarter. Three credits.

Dunn

106. **Mensuration I**—The methods of measurement of logs, trees and stands. The theory of log rules and volume table construction and their use in timber measurement. Three lectures, two labs. Fall quarter. Five credits.

Dunn

107. **Mensuration II**—The methods of determining the rate of growth and yield of trees and stands of timber. The relationship of growth study to timber survey and the management of the forest. Three lectures, one lab. Winter quarter. Four credits.

Dunn

114. **Silviculture I**—A study of the climatic, physiographic and biotic factors. Prerequisites, Forestry 12, 13. Three lectures. Fall quarter. Three credits.

Taylor

115. **Silviculture II**—Systems of marking to insure natural regeneration. Methods of thinning stands to stimulate the rate of growth. A study of methods of cutting the important timber stands of the U. S. Three lectures. Winter quarter. Three credits.

Taylor

116. **Planting**—The raising of forest tree planting stock by artificial methods. The collection and storage of seed. Nursery practice and field planting. Two lectures, one lab. Spring quarter. Three credits.

Dunn

121. **Forest Management**—Division of the forest into working units, choice of rotation, determination of the cut, frequency of returns, relation to market. Four lectures. Fall quarter. Four credits.

Taylor

122. **Forest Finance**—The value of forest property for continued timber production. The determination of loss from fire and other causes. Forest insurance and taxation. Five lectures. Winter quarter. Five credits.

Taylor

125. **Wood Technology and Forest Products**—A study of the structural and physical properties and the identification of economic woods: The utilization of wood for products other than sawed material, as the manufacture of turpentine, pulp, paper and rayon and the preservation and fire proofing of wood. Three lectures, two labs. Winter quarter. Five credits.

Dunn

132. **Forest Administration**—Organization and work of the U. S. Forest Service. Priority of work. Methods of rating men. Three lectures. Spring quarter. Three credits.

Taylor

133. **Forest Economics and Policy**—The relation of forests to our economic life; the development of federal and state forest policies as embodied in legislation. Two lectures. Winter quarter. Two credits.

Taylor

136. **Related Resources**—The recreational uses of forests. A study of fish and game and their relation to forestry. Five lectures. Spring quarter. Five credits.

Taylor

143-144. **Forestry Seminar**—A study of forestry problems and a general consideration of forestry practice. Fall and Winter quarters. Three hours each quarter. Two credits each quarter.

Taylor and Dunn

145. **Forestry Thesis**—Individual accomplishment of an original problem in forestry. Time by special arrangement. Any quarter. Two to six credits. A total of six credits allowed.

Taylor and Dunn

OUTLINE OF COURSES IN FORESTRY

Junior Forestry

	F.	W.	S.
Forest Entomology .....Zoo. 105 .....	..	..	4
Mycology, Forest Pathology.....Bot. 150, 140	3	3	..
Plant Physiology .....Bot. 120 .....	..	..	5
Mensuration .....For. 106, 107	5	4	..
Silviculture I, II, Planting.....For. 114, 115, 116.....	3	3	3
Wood Tech. & For. Products...For. 125 .....	..	5	..
For. Economics & Policy, Administration .....For. 133, 132.....	..	2	3
Range Management .....Range 162	4	..	..
Elective	2	..	2
	<hr/>	<hr/>	<hr/>
	17	17	17

Senior Forestry

	F.	W.	S.
Management, Finance .....For. 121, 122	4	5	..
Related Resources .....For. 136 .....	..	..	5
Range Mgt. Plans.....Range 166.....	2	..	..
Forestry Seminar .....For. 143, 144	2	2	..
Forestry Thesis .....For. 145	3	3	..
Elective	6	7	12
	<hr/>	<hr/>	<hr/>
	17	17	17

Elective Courses in Forestry

Required:

Language (in addition to English 10 and 11).....9 credits

Recommended:

Elementary Statistical Methods—Math. 75.....5 credits

RANGE MANAGEMENT

R. J. BECRAFT, Associate Professor

Upon completion of the basic courses and the major work as outlined in range management, students are granted the degree of bachelor of science in range management.

162. **Range Management**—Grazing regions, range forage plants and their growth requirements, seasonal use, grazing capacity, range improvement, methods of handling livestock. Three lectures, one lab. Field trips. Fall quarter. Four credits.

Becraft

164. **Range Problems**—Technical problems in range management, field methods in administration and research. Prerequisite, Forestry 162. Four lectures. Winter quarter. Four credits.

Becraft

166. **Range Management Plans**—Detail of methods in range reconnaissance, assemblage and application of data, development of a specific range management plan. Prerequisite, Forestry 162. One lecture, one lab. Fall quarter. Two credits.

Becraft

176. **Range Forage Plants**—Native forage plants: taxonomy, economic value, distribution, associations. Prerequisite, Botany 30. Three lectures, two labs. Winter quarter. Five credits.

Becraft

181. **Range Economics**—Development of the range industry, land utilization, control systems, range and ranch units, grazing resources and capacity, value of range forage, production costs of livestock. Two lectures. Winter quarter. Three credits. (Not given 1933-34.)

193, 194. **Range Seminar**—Discussion of current development in range management. Fall and Winter quarters. Three lectures. Two credits each quarter.

Becraft

195. **Range Thesis**—Individual accomplishment of an original problem in range. Time by special arrangement. Any quarter. Two to six credits. A total of six credits is allowed.

Becraft

OUTLINE OF COURSES IN RANGE MANAGEMENT

Junior Range

	F.	W.	S.
Plant Ecology, Physiology.....Bot. 126, 120.....	4	--	5
Feeds & Feeding.....A. H. 10.....	--	5	--
Mensuration .....For. 106	5	--	--
Silviculture I, II Planting.....For. 114, 115, 116.....	3	3	3
Administration .....For. 132	--	--	3
Range Mgt., Forage Plants.....Range 162, 176	4	5	--
Elective	1	4	6
	<hr/>	<hr/>	<hr/>
	17	17	17

Senior Range

	F.	W.	S.
Sheep Management .....A. H. 125.....	--	3	--
Related Resources .....For. 136	--	--	5
Range Mgt. Plans, Problems...Range 166, 164.....	2	4	--
Range Economics .....Range 181	--	3	--
Range Seminar .....Range 193, 194.....	2	2	--
Range Thesis .....Range 195	3	3	--
Elective	10	2	12
	<hr/>	<hr/>	<hr/>
	17	17	17

Elective Courses in Range

Required:

Language (in addition to English 10, 11).....9 credits

Recommended:

Elementary Statistical Methods, Math. 75.....5 credits

ARTS AND SCIENCE

BACTERIOLOGY AND BIOCHEMISTRY

J. E. GREAVES, Professor; KENNETH R. STEVENS, Instructor

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. Any quarter. Three credits.

2. **General Bacteriology Laboratory**—It is desirable that this course accompany Bact. 1. Fall, Winter or Spring quarter. Two credits.

Greaves and Stevens

101. **Industrial Microbiology**—This course deals with the part played by microorganisms in the arts and industries. Prerequisites, Bacteriology 1, 2, and Chem. 22 or 26. Fall quarter. Three or five credits.

Stevens

102. **Soil Bacteriology**—Bacteria are considered in relation to soil fertility. Graduate students should arrange with the professor in charge for graduate credit, and register for 202. Prerequisite, Bacteriology 1. Fall quarter. Two credits. (Given only if registration justifies.)

Greaves

103. **Soil Bacteriology**—Methods used in bacteriological investigations. Should accompany Bacteriology 102. Prerequisites, Bacteriology 1 and 2. Fall quarter. Two credits. (Given only if registration justifies.)

Stevens

104. **Dairy Bacteriology**—The bacteria of milk, butter, and cheese, and their relation to disease. Prerequisites, Bacteriology 1 and 2. Spring quarter. Three or five credits.

Stevens

106. **Pathogenic Bacteriology**—The pathogenic bacteria are considered in relation to disease, and the subject of immunity is stressed. Prerequisites, Bacteriology 1 and 2. Winter quarter. Three or five credits.

Stevens

107. **Determinative Bacteriology**—Opportunity is given for individual work in isolating, identifying and classifying bacteria. Prerequisites, Bacteriology 1 and 2. Time and credit arranged. Fall, Winter, or Spring quarters.

Stevens

110. **Physiological Bacteriology**—A course dealing with the important physiological properties of bacteria. Prerequisites, Bacteriology 1 and Chemistry 22 or 26. Winter quarter. Three credits.

Greaves

111. **Biochemistry**—The transformation going on in the plant and animal. Prerequisites, Chemistry 22 or 26. Spring quarter. Five credits.

Greaves

112. **Biochemistry**—A laboratory course which may accompany Bacteriology 111. Time to be arranged. Two credits.

Stevens

113, 114, 115. **Advanced 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, 215. Fall, Winter and Spring quarters. Two credits each quarter.

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.

Greaves and Stevens

GRADUATE COURSES

207. **Research**—The laboratory and library facilities are especially equipped for advanced students in bacteriological investigation in agriculture, household science, the industries, sanitary science and veterinary science. Time and credit to be arranged.

Greaves and Stevens

208, 209, 210. **Seminar**—Fall, Winter and Spring quarters. Time and credit to be arranged.

Greaves

CHEMISTRY

R. L. HILL, SHERWIN MAESER, Professors; C. T. HIRST, 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, 112, 113, 160, are required for a major. Majors must also complete physics 20, 21, 22 and Mathematics 117.

Introductory Chemistry—An informational course in beginning college chemistry, designed especially for students who desire a brief applied survey of the field of inorganic chemistry. Credit in this course cannot be used as a prerequisite for any course in chemistry. Students majoring in chemistry or desiring premedical credit should register for Chemistry 3, 4 and 5. This course should be preceded if possible by Physics 1.

Five lectures and one quiz period per week. Fall and winter. Students must elect one quiz section. Quiz sections limited to 15 students.

Hill

3, 4, 5. **Inorganic Chemistry**—A complete course in inorganic chemistry, including a beginning in qualitative analysis. Prerequisites, High School Chemistry, or Physics or Chemistry 1, or Physics 1 and 2. Three lectures, two labs. Fall, Winter and Spring quarters. Five credits each quarter.

Students in Agriculture and Home Economics should register in Chemistry 10, 11, and 12.

Maeser

10, 11, 12. **General Chemistry**—A year's course in Chemistry for students majoring in Agriculture, Home Economics, Engineering, etc. This course will emphasize the fundamental principles of inorganic and organic Chemistry. Both the lecture and laboratory work will be adapted to the needs of the students in Agriculture and Home Economics. All students majoring in Chemistry or in Science, or students desiring premedical credit should register for Chemistry 3, 4, and 5. Prerequisites, High School Chemistry or Physics, or College Physics. Three lectures and two labs. Fall, Winter and Spring quarters. Five credits each quarter. One section of 10 and 11 will be repeated Winter and Spring quarters.

Hill and Hirst

14, 15. **Qualitative Analysis**—A course in the theory and practice of inorganic qualitative analysis. Prerequisite, Chemistry 4. Winter and Spring quarters. Three credits each quarter.

Hirst

21, 22. **Organic Chemistry**—Fundamental principles of organic Chemistry. The aliphatic and aromatic hydrocarbons, and their derivatives. Prerequisite, Chemistry 4. Three lectures, two labs. Fall and Winter quarters. Five credits each quarter.

Hill

26. **Organic Chemistry**—An informational course in organic Chemistry arranged for students who desire a brief applied course. Students majoring in Chemistry or desiring premedical credit should register for Chemistry 21 and 22. Prerequisite, Chemistry 4. Spring quarter. Five credits. (Not given 1933-34.)

102, 103. **Quantitative Analysis**—A course in the fundamental principles of gravimetric and volumetric analysis. Prerequisite, Chemistry 5 or 15. Winter and Spring quarters. Three credits each quarter.

Hirst

104, 105, 106. **Physical Chemistry**—Including atomic, kinetic and electron theories, gaseous, liquid and solid states; solutions, thermodynamics. Prerequisites, Physics 20, 21, 22; Chemistry 5; Mathematics 117. Three lectures. Fall, Winter and Spring quarters. Three credits each quarter.

Maeser

109, 110, 111. **Physical Chemistry Laboratory**—To accompany Chemistry 104, 105 and 106. One laboratory period each week. One credit each quarter.

Maeser

107, 108. **Dairy Chemistry**—The chemistry of milk and milk products, including tests for adulterants, preservatives, and the routine quantitative methods of the analysis of dairy products. Prerequisite, Chemistry 22 or 26. Fall and Winter quarters. Three lectures, two labs. Five credits each quarter. Given if registration justifies. (Not given 1933-34.)

112, 113. **Advanced Organic Chemistry**—The more important theories and reactions employed in organic chemistry. Prerequisite, Chemistry 22. Fall and Winter quarters. Two credits each quarter.

Maeser

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

116. **Inorganic Preparations**—An advanced laboratory course in practical laboratory methods of synthetic inorganic chemistry. Prerequisites, Chemistry 5, or 15, and 103. Any quarter. Credit and hours to be arranged.

Maeser

120. **Special Courses in Quantitative Analysis**—Prerequisite, Chemistry 103. Winter or Spring quarter. Time and credit to be arranged.

120-A **Water Analysis**

120-B **Food Analysis**

120-C. **Soil Analysis**

120-D. **Urine Analysis**

120-D. **Gas Analysis**

Hirst

160. **Chemistry Seminar**—Required of all seniors majoring in Chemistry. Spring quarter. Two credits.

Maeser

180, or 280. **Research**—Senior or graduate students majoring in Chemistry may elect research in any branch of the subject. Time and credit to be arranged.

Staff

ENGLISH AND SPEECH

N. ALVIN PEDERSEN, FRANK R. ARNOLD, Professors; WALLACE J. VICKERS, ALMA N. SORENSEN, Associate Professors; CHARLOTTE KYLE, CHESTER J. MEYERS, Assistant Professors; WALLACE A. GOATES, Instructor; RUTH MOENCH BELL and A. J. HANSEN, Assistants.

English 10, 11, 105, 108, 109, 140, 141, 150, 153, together with two years of French or German, and English History are required of majors in English.

A comprehensive written examination in English and American literature, given during the Spring quarter of the senior year, is also required of English majors.

10. ***Freshman Composition**—Fundamentals in sentence and paragraph structure; practice in outlining; attention to correct usage; expository and argumentative writing. Fall, Winter or Spring quarter. Five credits.

11. ***Sophomore Composition**—Open to sophomores who have completed English 10. Freshmen may not register for this course, or receive credit for it, if taken without permission from the head of the department. Practice in selecting and organizing material; drill in effective presentation of subject matter; diction; narrative and descriptive writing. Fall, Winter or Spring quarter. Four credits.

*English 10 and 11 are required of all students for graduation from the college.

13. **Children's Literature**—Introduction to the prose and poetry of childhood and adolescence. A \$1.50 library fee is required. The course should be helpful to teachers and parents. Fall quarter. Three credits.

Pedersen

16, 17, 18. **Scandinavian Literature in Translation**—Selected reading from recent and traditional writers—short stories, novels, and poetry. Fall, Winter, and Spring quarters. One credit.

Hansen

19. **Scientific Vocabulary**—Intensive study of English word formation, derivation, synonyms, and figurative language in order to acquire a large English vocabulary, and to be able to understand scientific terms. Fall or Spring quarter. Two credits in the Fall, three in the Spring.

Arnold

31. **World Literature**—A survey course including a study of epic and romance, tragedy, comedy, the tale, satire, etc., as these forms of literature have appeared in Greek, Roman, Hebrew, Italian, French, German, English, and American literature. The course offers an opportunity for contact with the great literature of the world. Winter quarter. Five credits.

Vickers

50. **Readings in English Prose**—Masterpieces of Short Prose Fiction and Biography. Fall quarter. Three credits.

Sorensen

51. **Readings in Poetry**—The purpose of this course is to aid the student in seeing what is enjoyable in poetry. Winter quarter. Three credits.

Vickers

53, 54, 55. **Nineteenth Century Novel**—Class discussion and reports. French, Russian, Italian, German, English, and American novels. Fall, Winter and Spring quarters. Three credits each quarter.

Kyle

56 **Metrical Study of Poetry**—The aim of this course is to help the student to read poetry with proper appreciation of rhythm and sound. Winter quarter. Two credits.

Vickers

60. **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. Spring quarter. Three credits.

Kyle

70. **The Short Story**—A study of the technique of the short story. Stories by Poe, Maupassant, Hawthorne, Bret Harte, Kipling, O. Henry and others will be analyzed. Attention will be given to the best short stories appearing in current magazines. Winter quarter. Three credits.

Kyle

80, 81. **American Literature**—From Colonial times to the present. Winter and Spring quarters. Three credits each quarter.

Kyle

86. **Emerson**—His principal essays and speeches. Spring quarter. Three credits. (Not given in 1933-34.)

Sorensen

87. **Carlyle**—A study of selected masterpieces. Fall quarter. Two credits. (Not given in 1933-34.)

Sorensen

88. **Browning**—Principally a study of Browning's monologues. Fall quarter. Two credits.

Sorensen

English 10 and 11 are prerequisites for all courses in English that follow.

105. **College Grammar**—Fall or Spring quarter. Five credits.

Vickers

108, 109. **Advanced Writing**—Review of rhetorical details. Practice in various forms of discourse. Considerable freedom of choice as to type of writing. To register for Winter quarter, exclusive of Fall quarter, consult instructor. Fall and Winter quarters. Three credits each quarter.

Pedersen

111. **The Eighteenth Century Novel**—Sources of the English novel and its development in the eighteenth century, with attention to its influence on the continent. Fall quarter. Five credits.

Sorensen

130. **The Bible as English Literature**—The literature of the Bible arranged chronologically and studied in its relationship to the historical, social, and religious background of the Hebrews. (Not given in 1933-34.)

Vickers

131. **Introduction to Greek Drama**—This course provides an opportunity to become acquainted with the greatest of all ancient drama. The plays are read in translation. Spring quarter. Five credits. (Not given in 1933-34.)

Vickers

133. **Medieval Literature**—English and some continental literature is studied by types, the epic, the lyric, the romance, etc. The reading is done in translation. Five credits. (Not given in 1933-34.)

Vickers

134. **English Poetry 1500-1660**—A study of the development of the non-dramatic poetry of the period. Five credits. (Not given in 1933-34.)

Vickers

140, 141. **Shakespeare**—Detailed study in class of six plays: Macbeth, Henry the Fourth, King Lear, Hamlet, Othello, Twelfth Night. Collateral readings: various other Shakespearean plays as well as a biography. To register for Spring quarter exclusive of Winter quarter, consult instructor. Winter and Spring quarters. Four credits each quarter.

Pedersen

143. **Milton**—Selected prose and poetry, with the emphasis upon Paradise Lost. Spring quarter. Five credits. (Not given in 1933-34.)

Vickers

145. **Wordsworth and the Romantic Movement**—Fall quarter. Two credits. (Not given in 1933-34.)

Kyle

146. **Shelley and Keats**—A study of their relation to the Romantic Movement. Fall quarter. Two credits.

Kyle

150. **History of English Literature**—Designed for those who intend to teach literature in high school. A comprehensive review of periods, forces, and personalities in the field of English Literature. Spring quarter. Three credits.

Sorensen

153. **Chaucer**—Extensive reading course. Attention is paid to pronunciation. Spring quarter. Five credits.

Pedersen

163. **The Modern Drama**—A study is made of the plays of Ibsen, O'Neill, Galsworthy, Andreyev, Benavente, Brieux, Gorki, Maeterlinck, Rostand, Stringberg, Wedekind and others. Spring quarter. Three credits. (Not given in 1933-34.)

Pedersen

166, 167. **Types of Fiction**—Period restricted to the eighteenth and nineteenth centuries. The appearance and development of important types in England and America, together with a comparative study of selected European fiction in translation. Winter and Spring quarters. Two credits each quarter. (Not given in 1933-34.)

Sorensen

175. **Biography**—An appreciative study of great personalities in the light of their times. Boswell, Cellini, Strachey, Ludvig and others will be studied. Winter quarter. Five credits. (Not given in 1933-34.)

Sorensen

184. **Epic Poetry**—The Iliad, Odyssey, Aeneid, and parts of Dante's Divine Comedy in translation. Fall quarter. Four credits. (Not given in 1933-34.)

Vickers

185. **Contemporary Poetry**—Studies in the poetry of representative English and American authors since 1900. Spring quarter. Five credits.

Sorensen

186. **Elizabethan Drama**—A study of the predecessors of Elizabethan dramatists, with emphasis on the contemporaries and the followers of Shakespeare. Fall quarter. Five credits. (Not given in 1933-34.)

Sorensen

187. **English Drama 1660-1820**—Representative dramas of the period, with attention to such types as Heroic and Romantic Tragedy, Sentimental Drama, Melodrama, and Satiric and Romantic Comedy of Manners. Winter quarter. Five credits.

Sorensen

188. **Arnold**—Studies in the prose of Mathew Arnold, with emphasis on Arnold's contribution to Nineteenth Century thought. Spring quarter. Two credits.

Sorensen

SPEECH

Departmental Major:

Interpretation—1, 2, 4, 5, 6, 10, 102, 104, 106 or 152, 110, 111, 112, 150, English 140 or 141. Recommended for Drama students: Art 1, 3, 32; English 131, 163, 186, 187; Music 5, 6, 47, 48, 49; Physical Education 7 (fencing), 17, 27, 64; Psychology 101; Sociology 140; Speech 108, 114, 154, 156; Textiles 105, 115. Recommended for Interpretation students: English 31, 51, 70, 140, 141; Physical Education 7 (fencing), 27; Psychology 101; Sociology 140; Speech 108.

Public Address—1, 2, 3, 4, 5, 7, 101, 103, 105, 107, 111, 121 or 123. Recommended: English 19, 31, 108, 109, 131, 140, 141; Physical Education 7 (fencing), 27; Psychology 101; Sociology 140.

Departmental Minor:

Interpretation—1, 2, 4, 5, 6, 10, 102. Recommended: English 140, 141; Speech 8, 104, 106, 110, 150, 156; Sociology 140; Psychology 101.

Public Address—1, 3, 5, 7, 101, 105 or 131, 111. Recommended: English 108, 109, 140, 141; Psychology 101; Sociology 140; Speech 103, 107, 123.

Teaching Major and Minor:

The same requirements as the foregoing and in addition Speech 113 and any such courses as may be prescribed by the College Department of Education and also the State Board of Education.

Students desiring to major in Speech must complete all requirements of the Exact Science and Biological Science groups before being allowed to register for any upper division courses (courses numbered above 100). It is intended that junior and senior speech students be able to devote the maximum amount of time to their major field.

Before a student may begin upper division work with a view to majoring in Speech, he must have first completed satisfactorily the lower division courses in his particular field; must have completed all requirements of the Biological Science and Exact Science groups; and must have applied to the major professor for permission to take a comprehensive examination preparatory to being admitted to do major work, and have successfully completed that examination. The examination will require a satisfactory knowledge and ability to apply the subject matter covered in the lower division courses, and it will provide a judgment of the student's adaptability to carry the work. Before the student is graduated he will, late in his senior year, be required to take a second comprehensive examination covering all of the major work. Comprehensive examinations will be both written and oral.

COURSES

Enrollment in all classes is limited. Students must register personally with the instructor of the course.

1. **Extemporaneous Speaking**—Practical application and discussion of the basic principles of effective extemporaneous speaking including a brief consideration of delivery and composition factors. A general course designed to fit the needs of beginning untrained students desiring basic work in public address and personal daily communication. Fall, Winter or Spring quarter. Three credits.

Pedersen and Myers

2. **Oral Interpretation**—A beginning course aimed to develop the ability to interpret and appreciate good literature both for one's self and for others. Theory is minimized and emphasis is placed upon practical application through oral delivery. A foundational and cultural course preparatory to later courses in interpretation. Fall or Winter quarter. Five credits.

Goates

3. **Speech Organization**—A specific course dealing almost entirely with the principles of effective composition of speeches. The fundamentals of preparation, selection of material, outlining, etc., are considered in detail and applied to speeches given before the class. Winter quarter. Five credits.

Goates

4. **Principles of Reading**—An analysis and study of the printed page; its mechanics, technique, and how to read it. Of particular benefit to those who wish to read effectively and correctly either orally or silently. Also of value to teachers of reading. Fall or Spring quarter. Five credits.

Myers

5. **Speech Technique**—A course aiming at culture and correctness of speech. Special attention is given to voice science, phonetics, and breathing. Of special value to anyone doing any kind of speaking. Winter quarter. Five credits.

Goates

6. **Dialect**—A study of the most prominent dialect forms—their principles and uses. The dialect work of such writers as Burns, Kipling, Drummond, Riley, Dunbar, Harris, and Kirk will be studied, discussed, and learned. Prerequisites, Speech 2, 4, 5. Fall quarter. Five credits.

Myers

7. **Speech Delivery**—A course designed to give the speaker the greatest command of the forces necessary for effective delivery. Considers at length the practical delivery elements of voice, body, and mind. Aims at complete mastery of the speaking situation, ease, poise, confidence, fear elimination, body and mind coordination. Practical demonstration and participation is carried throughout the entire study. Individual difficulties will be considered. Spring quarter. Five credits.

Goates

8. **Private Instruction**—Personal attention given in private to the particular needs of the student in an effort to eliminate personal defects, develop skill, and solve individual speech problems. Recommended for anyone needing personal speech attention and to freshmen and sophomores majoring in speech. Special fee. Fall, Winter, and Spring quarters. Hours by arrangement. One to three credits.

Myers and Goates

10. **Advanced Interpretation**—An intense study of the intellectual and emotional components of oral or silent interpretation. Through analysis and application the course aims at an understanding of the elements, materials, and problems of interpretation and how to meet them for both one's self and others. Considers the factors of atmosphere, emotion, values, rhythm, etc. Prerequisites, Speech 2, 4, 5. Spring quarter. Five credits.

Goates

101. **Advanced Public Address**—Practice and criticism in the delivery and composition of speeches adapted to audiences and conditions. Extensive work in the developing of skill in speaking and applying the principles of effective speech. Analysis and study of certain effective and great speeches including those of contemporary speakers. Prerequisites, Speech 3, 5. Spring quarter. Five credits.

Goates

102. **Acting**—Technique of the actor, reading of lines, make-up, handling of body, stage procedure, wearing of costumes, rehearsal routine. Effected through the study and production of one-act plays presented publicly. Five hours lecture and three hours laboratory. Prerequisites, Speech 2, 4, 5, 6. Winter quarter. Six credits.

Myers

103. **Forms of Public Address**—A study and analysis of the various forms of public address used on specific formal and informal occasions. Consideration also made in some detail to parliamentary

procedure. Students are required to deliver speeches of the various types and also to conduct correctly meetings under the parliamentary rule. Prerequisites, Speech 1 or 3. Fall quarter. Five credits.

Goates

104. **Platform Reading**—By mastering significant selections from the great writers for audiences on important occasions, the student sees himself as an interpreter of permanent literature. Reading from manuscript and from memory. Winter quarter. Three credits.

Pedersen

105. **Argumentation**—A study of the principles governing formal and informal argumentative discourse. Practice is given in oral and written discussion and criticism. The aim of the course is to develop the student to think logically and to speak convincingly that he may cause others to act or believe as he desires. Prerequisites, Speech 3, 7. Five credits. (Given in 1934.)

Goates

106. **General Directing** (See also Speech 152)—A course especially arranged for those who wish to be directors of community dramatics. Attention is given to prompt books, miniature stages, costumes, and lights. Students in this course will direct and present the one-act plays mentioned in Speech 102. Prerequisites, Speech 2, 4, 5, 6, 102. Five hours lecture and three hours laboratory. Winter quarter. Six credits.

Myers

107. **Persuasion**—A study of the nature of individual and audience response; suggestion and rendering groups suggestible; belief sources; audience types; instincts and motivations; rousing of interest; securing of audience's attention, holding it and winning response; mental states of audiences and methods of adapting spoken appeal to them; emotional and logical persuasion. Prerequisites, Speech 3, 7. Three credits. (Given in 1935.)

Goates

108. **Story Telling**—The story as an educational factor; analysis and classification of typical stories with reference to each period of the child's development. Study of source; adaptation of material, actual practice in story telling. The work is designed to meet the needs of student, teacher, librarian, and parent. Prerequisite, Speech 4. Fall quarter. Five credits.

Myers

110. **Program Building**—A study of types of interpretative material suitable for presentation before various kinds of audiences. Reading of short stories, plays, and novels, etc., to determine suitability. The cutting of literary types and material to suitable form and length for public reading. Prerequisites, Speech 2, 4, 5, 6. Five credits. (Given in 1934.)

Myers

111. **Psychology of Speech**—A study of speech as a psychological problem. Considerations of conception, purpose, memory, imagination, belief, thought, personality, audience technique and audience-speaker relationships. The course considers the physical and psychological basis of human behavior as relates to speech and the speaking situation. Spring quarter. Five credits.

Myers

112. **Private Instruction**—Advanced specialized work in the individual needs and desires of the student. Particular attention is given to the student's deficiencies in speech matters. Research work is done in such as story, drama, novel, poetry and the various literary forms. Each student will present at least one public recital. Prerequisites, Speech 2, 4, 5, 6. Special fee. Fall, Winter and Spring quarters. Two to ten credits. Hours by arrangement.

Myers and Goates

113. **Pedagogy of Speech**—A study of the methods and problems peculiar to the teaching of Speech. A study of the organization of courses and lesson plans is included. Students may register only with the permission of the instructor. Winter quarter. Two credits.

Myers

114. **Children's Theatre**—Creative dramatics for children. A course in educational dramatics for students who wish to prepare to direct children in dramatic work. A study will be made of plays suitable for primary and intermediate schools. Courses in dramatics will be outlined, stories dramatized, and plays produced. The College Training School will afford opportunity for this work. Prerequisite, Speech 102. Spring quarter. Five credits.

Myers

121. **Debating**—A study of the forms of evidence on which sound argument is based; practice in constructing and presenting argument; formal debating. The course should be useful to other students as well as those who wish to participate in debate as an activity. Fall quarter. Five credits.

Vickers

123. **Advanced Debating**—Credit to those who are elected to the College Debate Team. Winter and Spring. Hours arranged.

Vickers

150 a, b, c. **Drama Production**—Study and application of the fundamental principles of scenic design and construction, stage lighting, costuming; equipment, organization, management and handling of the stage and theatre. Consideration of the elements of a play; play classification and selection; types, styles, and schools of drama. Lectures, research, and practical work with the College and local Little Theatre productions. The course runs through three consecutive quarters. Students are expected to complete the entire course. Five credits each quarter. (Given in 1934.)

Goates

152 a, b. **Specific Directing** (See also Speech 106)—Lectures and laboratory demonstrations of the principles of directing for professional, semi-professional, or amateur production. Considerations of composition, picturization, movement, rhythm, pantomimic dramatization, and technical and theme values. Treats the elements, means, and methods used in interpreting the emotional and intellectual concepts of a play in terms of dramatic sound and action. The course runs through two consecutive quarters. Students are expected to complete the entire course. Six credits each quarter. (Given in 1934.)

Goates

154. **Advanced Directing**—An advanced course dealing with the relation of actor and director; theories of subjective and objective acting; directing of tragedy, types of comedy, farce, melodrama, sentimental plays, pageants, and dramatico-musical productions; emotional contact; characterizations; interpretation of roles; advanced body expression; responsiveness; racial and national body characteristics; period technique; make-up. Open only to students who have completed prerequisite courses with distinction. Prerequisite, Speech 152. Fall quarter. Five to six credits.

Goates

156. **Forms of Drama**—Origin and development of the various drama forms in the different countries and through the successive movements from the beginnings to the present time. Material and information will be presented which are absolutely necessary background for all work in drama and which will make drama appreciation more intellectual and enjoyable. Extensive reading and lectures. Five credits. (Given in 1935.)

Goates

GEOLOGY

WILLIAM PETERSON, Professor; **REED W. BAILEY**, Associate Professor.

1. Geology and Geography of Utah—This course is planned especially to give the student a knowledge of the state, its mountains and valleys, rivers and lakes, and how they came to be. The geological processes, such as running water, wind and moving ice, that have operated in this intermountain region, and modified the land forms, will be studied. There will be a brief study made of the geological history of the state, of the sequence of events that have led up to its present form, and the ancient life that lived here. This work will also include a study of the National parks and monuments in the state. Special reports and field trips will be required. Fall or Winter quarter. Five credits.

Bailey

5. The Natural Economic Resources of Utah and their Utilization—Includes a study of land and water relationships, water power, timber, and metal and mineral deposits, as they have influenced the industry of the area. Special study will be given to the geographic distribution and economic importance of deposits containing gold, silver, iron, copper, zinc, manganese, clay, gypsum, coal, sulphur, cement, lime, gilsonite, elaterite, oil shale, oil, salt, alunite, phosphate, sulphate, etc. Spring quarter. Five credits.

Peterson

10. Engineering Geology—General principles of geology and their application to engineering problems. A study will be made of the materials of the earth, such as rock, gravel, sand, and clay; of structural features of the earth's crust; of maps representing these materials and structures, with their application to the construction of roads, dams, and canals, and the development of water supply, drainage, etc. The course will consist of four lectures and one laboratory period. Spring quarter. Five credits.

Bailey

15. College Geography—General principles of geography. Study of the physical environment in which man lives and relationship of this to his development. Winter quarter. Five credits.

Peterson and Bailey

100. Agricultural and Forest Geology—Planned especially for the student in agriculture and forestry. Includes physiography—a study of land forms and the processes which have formed them, such as running water, wind, weathering, and moving ice (glaciers); the formation of soils and the rocks from which they have come. A study of mountains and their history will be made. Fall quarter. Five credits.

Bailey

105, 106. **General Geology**—Physical and Historical Geology. A study of the materials making up the earth's crust, their arrangement and origin. Also, a study of the dynamic agents, such as wind, running water, moving ice, volcanic activities, etc., which operate upon the earth and modify its outer portion. 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 succession of life which has inhabited the earth. Field trips will be required. Prerequisites, College Chemistry, and Zoology. Winter and Spring quarters. Five credits each quarter.

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. Prerequisite, General Geology. Three lectures, two labs. Fall quarter. Five credits.

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 105, and Physics 1, 2. Spring quarter. Five credits.

Peterson

113. **Paleontology**—Life succession as found in fossil record. Special emphasis will be placed on the origin and the development of the mammals of today. Spring quarter. Five credits.

Bailey

114. **Field Methods**—Necessary in mapping the detailed geology of an assigned area. Fall and Spring quarters. Time and credits to be arranged.

Peterson and Bailey

HISTORY

JOEL E. RICKS, Professor; M. R. MERRILL, Assistant Professor.

1, 2, 3. **European History**—Survey of European History from the Fall of Rome to the present. Fall, Winter and Spring quarters. Five credits each quarter.

Merrill

4. **World Civilizations**—Survey of civilizations of the world from ancient times to the present. Attention will be given to the life, principal contributions and significance of past civilizations. This course is planned to meet the needs of students who wish to understand the main currents in world development and who do not have time for more detailed courses. Fall quarter. Course repeated in Winter and Spring quarters. Five credits.

Ricks

13, 14, 15. **United States History**—Survey of United States History from the earliest times to the present. Fall, Winter and Spring quarters. Five credits each quarter.

Ricks

31, 32, 33. **English History**—Survey of the history of England and the British Empire from the earliest times to the present. Fall, Winter and Spring quarters. Three credits each quarter.

Merrill

120. **European History**—Renaissance. A study of the Renaissance in all the western countries in Thirteenth, Fourteenth, Fifteenth and Sixteenth Centuries. Fall quarter. Three credits.

Ricks

121. **European History**—The Reformation. The Reformation movement in Germany, France, England, Switzerland, Scotland, and the Scandinavian countries. Winter quarter. Three credits.

Ricks

122. **European History**—The Expansion of Europe. A study of the causes of expansion of Spain, Portugal, Holland, France, England, Germany, Russia, Italy will be made with special emphasis upon expansion in Nineteenth and Twentieth Centuries. Spring quarter. Three credits.

Ricks

158, 159. **United States History**—History of the United States since the Civil War. Fall and Winter quarters. Two credits each quarter.

Ricks

197. **Seminar in United States History**—Required of all Seniors majoring in History. Spring quarter. Two credits.

Ricks

MATHEMATICS

LEON B. LINFORD, Associate Professor; S. R. EGBERT, V. H. TINGEY, Assistant Professors.

Majors in Mathematics must complete Mathematics 34, 35, 46, 97, 98, 99, and should complete Physics 20, 21, 22 during the first two years. These courses and Mathematics 120, 121, 122, 150, 151, 152 and either Physics 190, 191, 192 or Physics 119, 120, 121, 215, 216, 217 must be completed for graduation. Minors can be taken only in Physics, Chemistry or Engineering. Students intending to do graduate work in Mathematics should taken German, French, or both. A minor in Mathematics will be given only on completion of Mathematics 97, 98, 99.

34. **Introduction to College Algebra**—Prerequisite for all other courses in Mathematics except Mathematics 50. Required of all students in Agriculture and Engineering, and of majors in Physics and Chemistry. Any quarter. Five credits.

Linford, Tingey, Egbert

35. **College Algebra**—Simultaneous quadratic equations and beyond. Required of all students who take calculus. Prerequisite, Mathematics 34. Any quarter. Five credits.

Linford, Tingey, Egbert

46. **Trigonometry**—Can be taken before Mathematics 35. Prerequisite, Mathematics 34. Winter or Spring quarter. Five credits.

Linford, Tingey, Egbert

50. **Descriptive Astronomy**—An introductory course. Prerequisites, entrance Mathematics and Physics 1. (Not given 1933-34.)

60. **Mathematical Theory of Investment and Life Insurance**—Prerequisite, Mathematics 34. Winter quarter. Three credits.

Tingey

75. **Elementary Statistical Methods**—An introduction to the mathematical theory of statistics, together with its applications. Prerequisite, Mathematics 34. Spring quarter. Five credits.

Tingey

97. **Analytical Geometry**—Fall.

98. **Differential Calculus**—Winter.

99. **Integral Calculus**—Spring.

Prerequisites, Mathematics 34, 35, 46. Courses must be taken in order, to form a course throughout the year. Five credits each quarter.

Tingey

110. **Advanced Statistics**—A continuation of Mathematics 75. Prerequisites, Mathematics 75, 97, 98, 99. Winter quarter. Three credits.

Tingey

120. **Advanced Analytical Geometry**—Fall.

121. **Advanced Calculus**—Winter.

122. **Ordinary Differential Equations**—Spring.

Prerequisites, Mathematics 97, 98, 99. Courses cannot be taken in any but the above order without the consent of the instructor. Three credits each quarter.

Linford

150, 151. **Functions of a Real Variable**—Fall and Winter.

152. **Partial Differential Equations**—Spring.

Prerequisites, Mathematics 120, 121, 122 and Physics 20, 21, 22. This course will be concerned with definite integrals, convergence of series, gamma-functions, Bessel's functions, Legendre's polynomials, etc., and with their applications in solving partial differential equations. Special attention will be given to applications to Physics. Courses can be taken only in the above order. Three credits each quarter.

Linford

160, 161, 162. **Seminar in Mathematics**—Special work for students majoring in Mathematics. Any quarter. Time and credit to be arranged.

Staff

MODERN LANGUAGES AND LATIN

F. R. ARNOLD, Professor; GEO. C. JENSEN, Associate Professor; THELMA FOGELBERG, Assistant Professor.

FRENCH

1, 2, 3. **First Year French**—Beginner's French with grammar and conversation. About 800 pages of modern prose are read. Fall, Winter, and Spring quarters. Five credits each quarter.

Arnold and Fogelberg

1a. **First Year French**—Beginners' Reading Course for graduate students. Three times a week each quarter. May be taken with or without credit.

Arnold

101, 102, 103. **Second Year French**—Dictation and original composition. History of France by Lavisse. Study of French literature of the nineteenth century with reading of about 600 pages from Victor Hugo, Daudet, Loti, and Balzac. Fall, Winter, and Spring quarters. Three credits each quarter.

Arnold

104, 105, 106. **French Conversation and Composition**—Weekly debates in French on such subjects as militarism, education, country towns, and college pleasures. Writing up of each debate in French. Prerequisite, two years of college French or three years of high school. Fall, Winter, and Spring quarters. One credit each quarter.

Arnold

107, 108, 109. **French Composition**—Translation of English into French. Prerequisite, two years of college French or equivalent. Fall, Winter, and Spring quarters. (Not given 1933-34.)

110, 111, 112. **Research Work in French Periodicals and Books**—in any one of the following subjects:

- (a) Landscape gardening.
- (b) Percheron horses.
- (c) French finance.
- (d) French scientific reports.
- (e) Home economics.
- (f) European finance.

The work will consist of outside reading and weekly reports to the instructor. Prerequisites, two years of college French, or three years of high school. Fall, Winter and Spring quarters. Hours and credits to be arranged with instructor.

Arnold

119, 120, 121. **French in the Eighteenth Century**—Voltaire, Rousseau, Marivaux, and Beaumarchais. Prerequisite, two years of college French. Fall, Winter and Spring quarters. Two credits each quarter.

Arnold

SPANISH

1. **First Year Spanish**—Grammar, conversation and reading. Winter quarter. Four credits.

Arnold

2. **Continuation of Spanish 1**—Spring quarter. Three credits.

Arnold

LATIN

1, 2, 3. **Grammar and Reading**—And study of English vocabulary. Fall, Winter and Spring quarters. Three credits each quarter.

Arnold

19. **Scientific Vocabulary**—Intensive study of English word formation, derivation, synonyms and figurative language in order to acquire a large English vocabulary, and to be able to understand scientific terms. Fall and Spring quarters. Two or three credits. See English 19.

Arnold

Latin 101, 102, 103. **Reading of Caesar and Virgil**—Fall, Winter and Spring quarters. Two credits each quarter.

Arnold

GERMAN

1, 2, 3. **First Year German**—Grammar, reading and conversation. Fall, Winter and Spring quarters. Five credits each quarter. Two sections. Daily.

Jensen

101, 102, 103. **Second Year German**—Review of grammar; conversation, composition, history and literature. Fall, Winter and Spring quarters. Three credits each quarter.

Jensen

104. **Scientific German**—Reading of Scientific texts. Specially recommended for students who are planning to do advanced work in the sciences, or who are working for advanced degrees. Prerequisite, two years of college German. Fall quarter. Two credits.

Jensen

105, 106. **Research work in German periodicals and scientific books** in the following subjects:

- (a) Chemistry.
- (b) Medicine.
- (c) Biology.
- (d) Botany.
- (e) Agronomy.
- (f) Sociology.
- (g) Physics.

Prerequisite, German 104. The work will consist of outside reading and weekly reports to the instructor. Winter and Spring quarters. Hours and credits to be arranged with instructor.

Jensen

120. **Deutsche Erzähler von heute und gestern**—Spring quarter. Three credits.

Jensen

131. **Goethes Faust und Lyrik**—Especially recommended for literary students and returned missionaries. Prerequisite, two years of college German. Fall quarter. Three credits.

Jensen

132. **Heines Prosa und Lyrik**—Winter quarter. Three credits.

Jensen

PHYSICS

FRANK L. WEST, WILLARD GARDNER, Professors; LEON B. LINFORD, Associate Professor; EUGENE GARDNER, Assistant.

Students majoring in Physics should take during the first two years, Mathematics 34-35-46, 97-98-99, and Physics 20-21-22. In addition for graduation, Chemistry 3-4, Mathematics 120-121-122 and at least thirty quarter hours of Upper Division work in Physics. Premedical students are required to take Physics 20-21-22. All courses are conducted on the first floor of Widtsoe Hall.

1, 2. **General Physics**—A lecture demonstration course, designed for students not majoring in Physics or Engineering and requiring a minimum of mathematics. 1. Includes mechanics and heat; 2, includes electricity and magnetism, sound and light with their most interesting applications to industry and to life. Any quarter. Five credits. Physics 2 may be taken without Physics 1.

West, Linford

10. **General Astronomy**—Prerequisite, General Physics. (See Mathematics 50.)

16. **Meteorology, or Physics of the Atmosphere**—The methods of weather observation, predictions, frost warnings and the relation of climate to man, to forestry and to agriculture. Prerequisite, Elementary Physics. Spring quarter. Two credits. (Not given 1933-34.)

West

20, 21, 22. **Mechanics, Molecular Physics, Electricity and Magnetism, Heat, Light and Sound**—Prerequisite, High School Physics. Three lectures and two labs. Fall, Winter and Spring quarters. Five credits each quarter.

West

104, 105, 106. **Physical Chemistry**—Including atomic, kinetic and electron theories, gaseous, liquid and solid states; solutions, thermo-dynamics. General physics, chemistry, calculus and physics 107 should precede or accompany this course. Fall, Winter and Spring quarters. Three credits each quarter. (See Chemistry 104, 105, 106.)

Maeser

108. **Advanced Laboratory Work**—One to five credits each quarter. Recommended to students majoring in physics. Fall, Winter and Spring quarters. Time to be arranged.

West

110. **Electricity and Magnetism**—Prerequisite, Physics 20, 21, 22 and Calculus. Fall quarter. Three credits.

West

112. **Elementary Electrical Engineering**—For engineering students and majors in physics. Winter quarter. Three Credits (See C. E. 197.)

West

118. **Thermodynamics, Steam and Gas Engineering**—Spring quarter. Three credits. (See C. E. 196.)

West

119, 120, 121. **Modern Physics**—Fall, Winter and Spring quarters. Two credits each quarter.

West

150, 151, 152. **Applied Mechanics for Engineers**—Prerequisite, Calculus. Fall, Winter and Spring quarters. Five credits each quarter. (See C. E. 101, 102, 103.)

Kepner

166, 167, 168. **Geometrical and Physical Optics**—Fall, Winter and Spring quarters. Two credits each quarter. (Not given in 1933-34.)

Linford

190, 191, 192. **Theoretical Physics**—An introduction to mathematical physics. Prerequisites, Physics 20, 21, 22, and Calculus. Fall, Winter and Spring quarters. Three credits each quarter.

Gardner

209, 210, 211. **Theoretical Mechanics**—Fall, Winter and Spring quarters. Two credits each quarter.

Gardner

212, 213, 214. **Hydrodynamics and Relativity**—Fall, Winter and Spring quarters. Two credits each quarter.

Gardner

215, 216, 217. **Mathematical Theory of Electricity and Magnetism**—Two credits each quarter.

West

218, 219, 220. **Atomic Structure, Thermodynamics, and Physical Chemistry**—Two credits each quarter.

West

250, 251, 252, **Research Work**—Time and credit to be arranged.

Staff

PHYSIOLOGY AND PUBLIC HEALTH

E. G. CARTER, W. B. PRESTON, Professors; C. E. DANCY, Assistant Professor.

4. **Anatomy and Physiology**—A study of the structure and functions of the human body. Fall, Winter or Spring quarter. Five credits.

Carter, Dancy

5. **Laboratory Physiology**—A course of laboratory exercises and demonstrations selected to illustrate the fundamental principles of Physiology and Hygiene. Should accompany Anatomy and Physiology 4. Fall, Winter or Spring quarter. One credit.

Carter

*14. **Health Education**—(May be used for Grammar Grade certification). Health service and health education in the elementary schools. Discussions and reports relating to medical inspection, health examinations, first aid, symptoms and control of common school diseases and a study of the various health approaches. Methods and materials used in teaching health are considered. Fall, Winter or Spring quarter. Four credits.

Carter

106. **Applied Anatomy and Physiology of Exercise**—Prerequisite, Anatomy and Physiology 4. Fall quarter. Five credits.

Carter

107. **Physiology**—An advanced course in special phases of physiology. Four lectures and one demonstration period per week. Prerequisite, Physiology 4. Winter quarter. Five credits.

Carter

*Cannot be counted in the Biological Science group.

108, 109. **Public Health and Hygiene**—(May be used for High School 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 and ventilation, occupational diseases, health organizations and programs, and especially the promotion of health through education. Prerequisite, Bacteriology 1. Winter and Spring quarters. Three credits each quarter.

Carter, Preston

110. **Physiology**—Advanced physiology of the glands of internal secretion. Prerequisite, Physiology 4. Spring quarter. Two credits.

Carter

115, 116, 117. **Journal Club**—Seminar. A study of current physiological literature including hygiene, with oral and written reports. Prerequisite, Physiology 107 or 108. Any quarter. One credit. Time to be arranged.

Carter

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 in strength tests. Prerequisite, Physiology 106. Spring quarter. Three credits.

Preston

ZOOLOGY AND ENTOMOLOGY

W. W. HENDERSON, Professor; J. SEDLEY STANFORD, Assistant Professor.

Students specializing in Zoology and Entomology must select either Zoology or Entomology as a major.

For a major in Zoology students must take the following courses: 3, 4, 13, 111, 112, 116, 117, 118, 119, 124, 125, 126, 131 and 135. For majors in Entomology students must take the following courses: 3, 4, 13, 14, 101, 102, 103, 106 or 107, 111, 116, 124, 125, 126 and 135.

1. **Principles of Zoology**—This is a course in fundamental biological principles with illustrations and examples from animal life. It is not so much a study of animal life, or Zoology itself, as of biological generalizations having important significance in human thought and human institutions. The course is intended primarily for those who are not interested in technical Zoology and wish only a general survey of biological principles, as these are helpful in other knowledge. Five lectures and one laboratory period. Fall, Winter and Spring quarters. Five credits.

Henderson

3. **Invertebrate Zoology**—A type study of the phyla of the animal kingdom except the Chordates. General classification and the relationship of groups of animals to each other. Emphasis is placed upon structural characteristics, development and functions. This course is well adapted for premedical students. Three lectures and two labs. Fall quarter. Five credits.

Stanford

4. **Vertebrate Zoology**—The same general plan as given in course 3 is followed in the study of the vertebrates. Some attention is given to the local fauna. Three lectures and two labs. Winter quarter. Five credits.

Stanford

13. **General Entomology**—The structure, classification, inter-relationships and life histories of insects are studied. Some field trips are taken. This is a fundamental course and is required of all department majors. Three lectures and two labs. Fall quarter. Five credits.

Stanford

14. **Agricultural Entomology**—The recognition, life histories and control of the major insect pests of agricultural crops are studied. Particular attention is given to the injurious and the beneficial insects of Western North America and of Utah. Entomology 13 should precede this course. Three lectures and one lab. Winter quarter. Four credits.

Stanford

101. **Insect Morphology**—A comparative study of insect anatomy with emphasis placed on the structures used in taxonomy. Prerequisite, Entomology 13. Required for courses 102, 103 and 104. Two lectures and two labs. Winter quarter. Four credits.

Stanford

102. **Systematic Entomology**—Course 101 is prerequisite. Each student must collect, mount and label a representative collection of insects. The collection must contain at least 300 specimens, at least 50 species and at least 15 orders. The whole collection must be arranged in phylogenetic sequence. Classification will include only a correct placing of all specimens in order. Fall quarter. Three laboratory periods. Three credits. Graduate credit may be allowed.

Henderson

103. **Systematic Entomology**—Continuation of course 102. The collection arranged for course 102 must be enlarged to 500 specimens, 100 species and 18 orders. Classification will include a correct placing of all specimens in families. Winter quarter. Three laboratory periods. Three credits. Graduate credit allowed.

Henderson

104. **Systematic Entomology**—Continuation of course 103. Permission to take this course depends on the student's collection for courses 102 and 103. If his collection justifies further study, he may select one or two orders of insects and classify them to species. Spring quarter. Three laboratory periods. Three credits. Graduate credit allowed.

Henderson

105. **Forest Entomology**—A study of the principal insects attacking forests and forest products. Considerable attention is given to the principles of biological control. A brief study is made of forest vertebrates with emphasis on insect-eating birds. Courses 4 and 13 should precede this course. Three lectures and one lab. Spring quarter. Four credits.

Stanford

106. **Entomological Literature**—Each student reports on the literature of some insect. The historical development of entomology, current entomological literature and bibliographies are discussed. Prerequisites, Entomology 13, 14 and 102. Graduate credit may be allowed for this course. One lecture and one lab. Spring quarter. Two credits. (Not given 1933-34.)

Stanford

107. **Entomological Technique**—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. Prerequisite, Entomology 13. One lecture and one lab. Spring quarter. Two credits.

Stanford

111. **Heredity and Eugenics**—A non-technical study of the more evident behavior of the germ cells in reproduction and the simpler principles underlying the inheritance of traits. Consideration is given to the eugenic value of human races, inferior and superior families, sexual selection and marriage, birthrate, immigration and other principles having eugenic significance. Fall and Winter quarters. Three lectures. Three credits.

Henderson

112. **Principles of Genetics**—A technical study of the cytological and experimental bases underlying heredity and variation. This course is a fundamental requirement for all students of plant breeding, animal breeding or human heredity. It considers qualitative and quantitative traits, factor independence, interaction, linkage relations, gene and somatic mutations, sex determination and modification and related subjects. Students taking this course must have had course 111 or some good general course in Biology. Graduate credit allowed. Spring quarter. Five lectures. Five credits.

Henderson

116. **Parasitology**—The classification, morphology and life histories of parasites of man and the domesticated animals. The Arthropods as external parasites and carriers of pathogenic organisms receive major attention. The disease producing worms and protozoa are also studied. Courses 3 and 13 should precede this course. Three lectures and two labs. Spring quarter. Five credits.

Stanford

117. **Histological Technique**—A practical course in fixing, imbedding, sectioning, staining, mounting and magnifying of tissues. One lecture and two laboratory periods a week. Fall quarter. Three credits.

Stanford

118. **Histology and Organology**—A study of the microscopic structure of vertebrate organs and the functions of tissue aggregations. Prerequisite, Zoology 117. One lecture and two laboratory periods a week. Winter quarter. Three credits.

Stanford

119. **Vertebrate Embryology**—A study of the developmental stages more common to animals in general and a particular consideration of vertebrate development based on the frog and the chick. One lecture and two laboratory periods a week. Spring quarter. Three credits.

Stanford

124, 125, 126. **Seminar**—The students and the faculty of the department 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.

Staff

131. **Organic Evolution**—A critical study of the facts of evolution as obtained from a careful study of comparative anatomy, embryology, geographical distribution, blood tests and other fields upon which the doctrine of evolution is based. Factors causing evolution will be considered and discussions will be undertaken on other bodies of related thought. Prerequisite, some thorough course in biology. Graduate credit allowed. Three lectures. Spring quarter. Three credits.

Henderson

135. **Museum**—This is a course in the preparation, display and care of animal specimens for the museum or for visual education. Each major in Zoology and Entomology must spend the equivalent of an hour a day in this work for three quarters, preferably in his senior year. Expense involved in the preparation of specimens will be met by the department in which case the material will be left in the museum as a contribution of the student. Students will be expected to describe displays intelligently to visitors and assume charge of the museum on arranged periods. Graduate credit allowed. Fall, Winter and Spring quarter. One credit each quarter.

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-graduates 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 required. Open to under-graduate students only by special permission. Prerequisites, Entomology 13, 14 and 102.

Stanford

COMMERCE

AGRICULTURAL ECONOMICS AND MARKETING

(Administered jointly by the Schools of Agriculture and Commerce)

W. P. THOMAS, Professor; W. U. FUHRIMAN, Associate Professor.

Students in either the School of Agriculture or the School of Commerce may major in this department. The choice of School in which to register should be determined by the School in which the student intends to do his minor work.

Students intending to minor in the School of Agriculture should see suggested outline of courses listed under the School of Agriculture.

53. Principles of Agricultural Economics—A general study of the more important economic principles, forces and institutions affecting agricultural income, production, finance, prices, labor, land utilization, tenancy, tariff, etc.; the inter-relation of these factors; and the relation of agriculture to other industries. Prerequisite, Economics 51 or equivalent. Winter and Spring quarters. Three credits.

Fuhriman

62. Principles of Marketing—The principles of marketing, consumer demand, economic factors affecting sales, marketing agencies and sale policies, function of middlemen, channels of distribution, organized exchanges, and effect of government activities on distribution. Prerequisite, Economics 51. Spring quarter. Five credits.

Fuhriman

70. Farm Management—The keeping and analysis of Farm Accounts. This course deals with the keeping, use, interpretations, and analysis of farm accounts and records. The meaning of various measures of farmer's financial success, the methods of computing the common efficiency factors, etc., will be considered. Prerequisite, Economics 51. Spring quarter. Three credits.

Fuhriman

102. Principles of Farm Management—An analysis of the principles and problems of farm organization and management. A study of the problems of choosing, buying, organizing, and managing the various types of farms. Discussion of proper size, balance, diversity, and the relationship between the various enterprises. Prerequisite, Economics 51. Fall quarter. Three credits.

Fuhriman

104. **Economic Development of Agriculture**—A historical analysis of agriculture through the various stages of its economic development with special reference to the United States. Fall quarter. Three credits. (Not given 1933-34, alternates with 106.)

105. **Agricultural Finance**—A study of agricultural credit with regard to requirements, facilities, instruments, and methods of financing agriculture. This involves an analysis of our present financial organization and its relation to agriculture. Special attention will be given to the agencies authorized by the Federal Government to provide financial aid and credit to farmers and farmers' organizations. Prerequisite, Economics 51. Fall quarter. Three credits.

Fuhriman

106. **Land Economics**—Principles underlying the utilization, valuation, tenure, and conservation of our land resources available for crops, pastures, and forests. Prerequisite, Economics 51. Fall quarter. Three credits.

Fuhriman

112. **Cooperative Marketing**—This course deals with the fundamental principles of cooperative marketing of agricultural products, the legal status of cooperation, and the growth and development of cooperative marketing in the United States as a whole. Emphasis will be given to the development of cooperative marketing in Utah and to the present problems of the cooperatives of the state. Winter quarter. Five credits.

Fuhriman

113. **Cooperative Marketing**—Same as 112 except that no laboratory is given. Winter quarter. Three credits.

Fuhriman

114. **Marketing Fruits and Vegetables**—Trends in production, consumption, and marketing fruits and vegetables in United States as a whole and in Utah, together with special problems of over-production, local and foreign competition, quality of products, transportation factors; grading, inspection, and marketing methods will be given consideration. Prerequisite, Economics 51. Spring quarter. Three credits.

Fuhriman

116. **Marketing Livestock and Livestock Products**—The production and marketing factors as they relate to the marketing of livestock and livestock products with special reference to Utah's condition. Spring quarter. (Not given 1933-34, alternates with 114.)

120. **Agricultural Prices**—Relationship between production and prices of agricultural products; trends in prices of agricultural commodities in comparison with prices of non-agricultural products, and cycles in their relation to agriculture. State and National Agricultural Outlook, as it applies to Utah will be given special consideration. The aim of the course is to make application of principles in prices, production and marketing to an agricultural program for the individual and the group. Prerequisite, Economics 51. Winter quarter. Three to five credits. (Not given 1933-34.)

121. **Price Analysis**—A more detailed course in price analysis than is given in 120. Emphasis will be given to the factors influencing price changes, physical volume of production, together with the affects of such changes upon the agricultural situation. Prerequisites, Economics 51 and Agricultural Economics 53 or Economics 52. Winter quarter. Three to five credits.

Thomas

191. **Advanced Farm Management**—A detailed farm management analysis, including methods of making surveys, collecting, tabulating, organizing, and analyzing data and a study of the application of results toward the improvement of the farm business. The student will be expected to do some actual field work and to analyze the farm management data in the laboratory. Prerequisite, Agricultural Economics 102. Winter quarter. Three credits.

Fuhriman

210. **Research in Agricultural Economics**—Time and credit to be arranged.

Thomas

214. **Research in Agricultural Economics**—Thesis.

Thomas

211, 212, 213. **Agricultural Economics and Marketing Seminar**—All seniors 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 Marketing. Fall, Winter and Spring quarters. One credit each quarter.

Thomas and Fuhriman

**SUGGESTED COURSE OF STUDY FOR MAJORS IN
AGRICULTURAL ECONOMICS IN THE
SCHOOL OF COMMERCE**

FRESHMAN YEAR

Course	Quarters		
	Fall	Winter	Spring
English 10	5		
Chemistry 1			5
Sociology 70		3	
Political Science 11, 12.....	3	3	
Biological Science*	4	4	5
Agriculture*	3	5	5
Typewriting	1	1	1
Electives*	0-1	0-1	0-1

SOPHOMORE YEAR

Course	Quarters		
	Fall	Winter	Spring
Economics 51	5		
Agricultural Economics 53		3	
Agricultural Economics 70			3
Business Administration 25	5		
Business Administration 28		5	
Agricultural Economics 62			5
English 11	4		
Mathematics 34		5	
Mathematics 75			5
Electives*	1-3	2-4	2-4

JUNIOR YEAR

Course	Quarters		
	Fall	Winter	Spring
Agricultural Economics 102	3		
Agricultural Economics 105	3		
Agricultural Economics 114 or 116.....			3
Agricultural Economics 120		5	
Economics 155		3	
Psychology 101	3		
Agronomy 117			4
Accounting 101	5		
Economics 135			3
Civil Engineering 149		3	
English or Language			4
Electives*	1-3	4-6	1-3

SENIOR YEAR

Course	Quarters		
	Fall	Winter	Spring
	(Hours)		
Agricultural Economics 106 or 104.....	3		
Agricultural Economics 191		3	
Agricultural Economics 112		5	
Agricultural Economics 121		5	
Economics 145			2
Economics 140			3
Economics 131	5		
Seminar Agricultural Economics 211, 212, 213	1	1	1
Research Agricultural Economics 210.....		2-3	2-5
Agricultural Economics 114 or 116.....			3
Electives*	6-8	0-1	3-6

**The courses to be selected will depend upon the special interest need of the student, and his minor subject. He should consult his major and minor professors in the selection of these courses.

BUSINESS ADMINISTRATION

P. E. PETERSON, W. L. WANLASS, Professors; V. D. GARDNER, Associate Professor; M. D. KETCHUM, Assistant Professor; THELMA FOGELBERG, Assistant Professor; L. MARK NEUBERBER, Instructor.

Accounting 101, 102, 103 may be used to satisfy in part of the group requirements in Exact Science. No other courses in accounting may be so used.

Students majoring in the Department of Business Administration and Accounting may concentrate in the fields of Accounting, Finance, Management, Merchandising, and Secretarial Science. In addition to the recommended basic work in the first two years the student is advised to complete the courses listed in the following table according to his field of concentration. (Students majoring in the field of Secretarial Science should register under the advice of the Department head.)

((To be included either in the major or special group))

Fields of Concentration	Recommended Courses
Accounting:	Accounting 101, 102, 103, 104, 111, 120, 121, 122; Economics 131, 132, 195, 206; Political Science 104, 105, 106, 107, 108, 109; Business Administration 130, 131.
Finance:	Business Administration 130, 131, 140, 141, 149; Economics 131, 132, 165, 167, 168, 195, 206; Political Science 104, 105, 109 or 106, 107, 108; Accounting 101, 102, 103, 111.

- Management:** Business Administration 130, 131, 133, 134, 151, 152, 153, 149; Accounting 101, 102, 103, 111; Economics 131, 132, 145, 195, 206.
- Merchandising:** Business Administration 151, 152, 154, 155, 156, 161, 162, 131, 149; Accounting 101, 102, 103, 111; Economics 131, 132, 145, 195, 206; Political Science 104, 105, 109 or 106, 107, 108.
- Secretarial:** Business English 30; Stenography 78, 79, 80; Typewriting 89, 90, 91; Economics 51, 52; Accounting 1, 2; Business Administration 93, 94, 98, 99, 54, 136, 149, 175, 177, 178; Political Science 11.

ACCOUNTING

Accounting 1, 2. Introductory Accounting—The purpose of this course is to present the basic principles of accounting and to furnish working material in the form of questions, problems, and practice sets which require the application of the theory advanced. Principles learned here will be useful as a basis for further study of accounting and as an aid in the understanding and control of the more common problems of business. Technique will be strongly emphasized. Fall or Winter, and Spring quarters. Five credits each quarter.

Gardner and Fogelberg

101. Fundamentals of Accounting—A basic course in fundamental theory. Emphasis will be given to the construction and interpretation of accounts. Required of all students majoring in Business Administration and Accounting. Graduate credit may be allowed upon the completion of some additional work. Prerequisite, Mathematics 35. Fall quarter. Five credits.

Peterson

102, 103. Problems in Accounting Principles—This course logically follows course 101 and brings to the classroom some of the vividness of the real problems as they arise in business. Selected cases and problems will be used. A critical understanding of accounting as it serves the executive is the aim of the course. Required of all majors in Business Administration and Accounting. Graduate credit may be allowed upon the completion of some additional work. Prerequisite, Accounting 101. Winter and Spring quarters. Three credits each quarter.

Peterson

104. **C. P. A. Problems**—A selection of typical problems taken from the examination questions of the various State Boards of Accountancy and the American Institute of Accountants. This is an essential course for students majoring in accounting. Fall quarter. Five credits.

Gardner

107. **Household Accounts**—The practical application of accounting principles to home management problems. Students are expected to acquire a fair technique in handling of accounting records. Lectures and assigned practice problems. (Not given in 1933-34.)

Peterson

108. **Accounting for Non-Commercial Students**—A brief course in the study of those principles of Business Organization, Management and Accounting necessary to meet the needs of students in the School of Engineering. Winter quarter. Three credits.

Peterson

111. **Industrial Cost Accounting**—A detailed study of the principles of cost accounting as applied to manufacturing industry, with particular stress upon methods of burden distribution and interpretation of cost statistics. Lectures with assigned problems and cases. Winter quarter. Five credits. (Not given 1933-34.)

Gardner

120, 121. **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 audit programs, working papers, and final report. Open to graduate students. Prerequisites, Accounting 101, 104. Lectures, assigned cases and field work. Winter and Spring quarters. Three credits each quarter. Three lectures a week.

Peterson

122. **Auditing**—A study in the fundamentals of auditing and to afford an opportunity to engage in a limited amount of actual practice. Fall Quarter. Five credits. Three lectures and two labs.

Peterson

124, 125. **Seminar**—A reading and research course for graduates, seniors, and specially approved juniors in accounting. Required of all accounting majors. Current development in the field will be considered in lectures and reports. Winter and Spring quarters. Two credits each quarter.

Peterson

127. **Income Tax Accounting**—A study will be made of the important provisions of the Federal and State Income tax laws. Practical problems in Income Tax Accounting will be considered. Winter quarter. Two credits. (Not given 1933-34.)

Peterson

BUSINESS ADMINISTRATION

25. **Introductory Business Administration**—An introductory course in the fundamentals of business administration. It is intended that this course shall furnish the students with a background for the study of the more complex problems of business. Not open to freshmen. Lectures and reports. Fall quarter. Five credits.

Peterson

26. **Application of Engineering to Business**—Engineering applications of heating, lighting, ventilation, power, transportation as they would affect the business executive in solving his problems of economy. Two recitations per week. Fall quarter. Two credits.

R. B. West

27. **Material Handling, Plant Layouts, Blue Print Reading**—Survey of material handling equipment, office and factory layouts, reading common blue prints, fundamentals of orthographic projection, simple drawings. One lecture, one laboratory. Winter quarter. Two credits.

Kepner

28. **Business Finance**—This course treats of the structure of the corporate enterprise; providing 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. Open to qualified Sophomores. Prerequisites, Economics 51, 52, or equivalent. Winter quarter. Five credits.

Gardner

54. **Business Psychology**—A study of (1) psychological facts and principles applicable to the business functions of production, marketing, finance and labor and personnel, and (2) psychological methods of attack upon business problems. Fall quarter. Three credits.

Ketchum

130. **Problems in Investment**—With concrete cases used as a basis of discussion the varying investment needs of different classes of people will be studied in the first part of the course. In the second part, attention will be given to different types of investment houses; while in the third, types of investment securities will be analyzed. Spring quarter. Five credits.

Peterson

135. **Corporation Finance**—This course is designed for students concentrating in accounting and finance. The financial plans and devices of various types and sizes of companies will be studied, with a view of determining sound means of raising and conserving funds in different phases of the business cycle. Some attention will be given to financial policy in re-organization. (Not given 1933-34.)

Peterson

133. **Industrial Management Problems**—Selected cases will be taken up for study and report. Problems in industrial location; on choice of site; on buildings and layout; on selection, purchase, and arrangement of equipment; on purchasing and stores; on organization; on industrial research; on labor relations; and on problems in managerial control. Prerequisite, Business Administration 25. Fall quarter. Five credits.

Gardner

136. **Business and Professional Ethics**—After a general survey of the science of ethics special consideration will be given to those principles of professional conduct which are rapidly being introduced into modern business. The work of trade associations and professional organizations will be critically analyzed. Winter quarter. Two credits.

Wanlass

137. **Management Seminar**—A course for seniors and specially proved juniors in which current developments in the field will be considered in lectures and reports. Winter quarter. One credit. (Not given 1933-34.)

Gardner

141. **Principles of Real Estate**—A general course designed for the business man rather than solely for the specialist. The technique of real estate appraisal, transfer, legal restrictions, and the forms and papers used in real estate transactions. Three credits. (Not given 1933-34.)

Ketchum

146. **Risk and Risk-bearing**—This course deals with risks, why they exist, their influence on economic activity, who are subject to risks and the various ways of dealing with risks. The risks of the investor, worker, consumer, and business manager are treated, involving the study of speculation, research, forecasting, business judgment, the prices paid for risk-bearing services as insurance, and a critical appraisal of our present risk-bearing organization. Winter quarter. Five credits.

Ketchum

148. **Personal Finance and Insurance**—This course is designed to meet the needs of students in Home Economics and others wishing instruction in methods of building up a personal investment account and in the selection of the most suitable types of insurance to meet the needs of persons with moderate incomes. Two lectures a week. Two credits. (Not given 1933-34.)

Ketchum

149. **Business Policy**—This is a co-ordinating course aimed to develop perspective and judgment. Problems will be discussed in finance, control, legal and ethical aspects. Required of all majors in Business Administration. Spring quarter. Five credits.

Gardner

MERCHANDISING

150. **Principles of Wholesaling**—A study of market organization and functioning of institutions in the wholesale commodity markets. Prerequisites, Economics 51, 52 and Agricultural Marketing 62. Fall quarter. Three credits.

Ketchum

152, 153. **Problems in Merchandising**—The aim of this course is to present by means of carefully selected cases the manager's merchandising problems. Methods of marketing merchandise; selection of channels of distribution for consumers and industrial goods; sales organization and control; advertising and sales promotion; stock-turn; price policies. Winter and Spring quarters. Three credits each quarter.

Peterson

157. **Principles of Advertising**—A study of advertising as a device in facilitating the distribution of commodities. The course includes a study of the structure of advertisements, the appeals used in the preparation of advertisements for different products, the choice of media, and the work of advertising departments and agencies. Prerequisites, Economics 51, 52 and Agricultural Economics 62. Three credits. (Not given 1933-34.)

Ketchum

158. **Marketing Management**—A consideration of the problems which confront the modern sales executive and the development of techniques which have been found useful in their solution. Prerequisites, Economics 51, 52 and Agricultural Economics 62. Spring quarter. Three credits.

Ketchum

161, 162. **Retail Store Management Problems**—The aim of this course is to present, by means of carefully selected and co-ordinated cases, the management problems of retail stores. The problems studied include accounting statistics, organization, merchandise, selling, stocks, buying, personnel, finance, price policies, and general administrative policies. The case method. Winter and Spring quarters. Five credits each quarter. (Not given 1933-34.)

Peterson

SECRETARIAL SCIENCE

A considerable demand has been found for a short intensive course in secretarial work. Students wishing to complete such a course should register according to the following program:

FIRST YEAR

	Fall	Winter	Spring
Elementary Stenography .....	..	5	5
Typewriting I	1	1	1
Freshman Composition	5	..	..
Intro. Accounting .....	..	5	5
Economic Resources of U. S.....	5	..	..
Social Relations	3	..	..
Business Practice .....	..	..	3
Burrough's Post. Mach. ....	..	1	1
Electives	2	4	1
	<hr/>	<hr/>	<hr/>
	16	16	16

SECOND YEAR

	Fall	Winter	Spring
Advanced Stenography	3	3	3
Advanced Typewriting	1	1	1
Sophomore Composition.....	4	..	..
Principles of Economics.....	5	5	..
Commercial Law 11, 12, 13.....	3	3	3
Secretarial Science .....	..	..	3
College Grammar .....	..	..	5
Calculator Operation .....	..	1	1
Electives .....	..	3	..
	<hr/>	<hr/>	<hr/>
	17	16	16

30. **Business English**—This course aims to give the student practice in the writing of different kinds of business letters and reports. Fall quarter. Three credits.

Fogelberg

75, 76. **Elementary Stenography**—Thorough drill in the fundamentals of the Gregg system of shorthand. Winter and Spring quarter. Five credits each quarter.

Fogelberg

78, 79, 80. **Advanced Stenography**—This course is a finishing course for stenographic students, and will include: A thorough review of the theory of Gregg shorthand with the development of new vocabulary; the study of letter forms and arrangement; transcripts. Special attention will be directed toward the attainment of speed in taking dictation together with the making of a perfect transcript. Prerequisites, one year stenography and typewriting.

Student must be registered in a course of advanced typewriting simultaneously with this course. Fall, Winter and Spring quarters. Three credits each quarter.

Fogelberg

81. **Speedwriting**—This course is an abbreviated system of longhand—A Natural Shorthand. Speedwriting is a shorthand written with the a, b, c's. This course is recommended to students for the taking of ordinary office dictation, and also to facilitate note-taking.

Average rate of dictation at end of quarter 60 words a minute. Fall quarter. Five credits. (Not given 1933-34.)

86. **Typewriting I**—This course is designed to develop correct technique in:

Position—Syllable, Word and Sentence Drills.

Stroke—Rhythm, Number, and Shifting Drills.

Mechanical Features—Acceleration and Concentration Drills.

Mastery of Keyboard—Introduction of "Time" Writing.

Finger Exercises—Analysis of Errors.

Average speed 20 words a minute.

Students must arrange for three hours practice a week in addition to the regular class work. Fall, Winter and Spring quarters. One credit each quarter.

Neuberger

87. **Typewriting II**—This course continues with the advanced development of those features of the beginning course and in addition includes:

Care of the Machine—Centering.

Setting-up Copy—Frequency, Phrase and Word Combination Drills.

Sentence and Paragraph Practice.

Introduction to Letter Writing.

Average speed 25 words a minute.

Student must arrange for three hours practice a week in addition to the regular class hour. Winter and Spring quarter. One credit each quarter.

Neuberger

88. **Typewriting III**—This course continues with the advanced development of the features developed in Typewriting I and II, and in addition includes:

Letter Writing stressing Placement, Essentials, Styles, Tabulating.

Average speed 30 words a minute.

Student must arrange for three hours practice a week in addition to regular class hour. Spring quarter. One credit.

Neuberger

89. **Typewriting IV**—This course is designed to give special attention to the development of accuracy, and includes:

Advanced Letter Writing.

Telegrams.

Continuance of all Drills and Exercises.

Introduction to Invoicing.

Speed and Accuracy Tests.

Average speed 40 words a minute.

Student must arrange for three hours practice a week in addition to the regular class hour. Fall quarter. One credit.

Neuberger

90. **Typewriting V**—This course is designed to give special attention to the development of accuracy and includes:

Continuance of Concentration, Acceleration, Rhythm and Corrective Drills.

Advanced Legal Forms.

Advanced Tabulation.

Speed and Accuracy Tests.

Average speed 45 words a minute.

Student must arrange for three hours practice a week in addition to the regular class hour. Winter quarter. One credit.

Neuberger

91. **Typewriting VI**—This course is designed to give special attention to the development of accuracy, and includes:

Continuation of all Drills.

Review of Machine and Short Cuts in Typewriting.

Billing and Tabulation.

Speed and Accuracy Tests.

Average speed 50 words a minute.

Student must arrange for three hours practice a week in addition to the regular class hour. Spring quarter. One credit.

Neuberger

93. **Elementary Calculator Operation**—Instruction and practice in addition, subtraction, multiplication and fixed decimal point work by the use of Burroughs Calculating Machines. Fall, Winter and Spring quarters. One credit. A fee of \$1.00 will be charged.

Neuberger

94. **Advanced Calculator Operation**—Application of Burroughs Calculating Machines to various business computations such as division, percentages, chain discounts and inventories. Fall, Winter Spring quarters. One credit. A fee of \$1.00 will be charged.

Neuberger

98. **Burroughs Posting Machine—Commercial**—Instruction and practice in the application of Burroughs Posting Machines to book-keeping procedures in banks and financial institutions. Fall, Winter and Spring quarters. One credit. A fee of \$1.00 will be charged.

Neuberger

99. **Burroughs Posting Machine—Bank**—Instruction and practice in the application of Burroughs Posting Machines to book-keeping procedures in banks and financial institutions. Fall, Winter, and Spring quarters. One credit. A fee of \$1.00 will be charged.

Neuberger

175. **Business and Office Practice**—This course is designed to familiarize students with business terms and to cover all phases of business practice which the office assistant is called upon to perform in addition to shorthand and typewriting service. Aside from general office details and management, actual knowledge and experience is obtained in the use of mailing devices; the receiving, distributing, and sending of mail; filing and filing systems; cutting stencils and operation of the Mimeograph and Ditto Machine; dictating to and transcribing from the Dictaphone; elementary operation of the adding and calculating machines. Spring quarter. Three credits.

Fogelberg

176. **Report Writing**—The ability to write clearly and concisely is of such importance to business men that it has been thought desirable to offer special instruction in Report Writing. Instruction will be given in the organization and writing of the various types of reports: Fact-Finding; Issue or Problem-determining; Problem-Solution; and Performance. Fall quarter. Two credits.

Fogelberg

178. **Secretarial Science**—This course is designed to give training in proper attitudes in business. Procedure is based on lectures and the use of problem method in classroom work covering: essential personal, moral, mental, and physical characteristics necessary to the successful office worker; essential ethics and amenities; the business organization and how to adjust oneself to the new position; marketing one's ability—personal application and letters of application, etc. Fall quarter. Three credits.

Fogelberg

**SUGGESTED COURSE OF STUDY FOR MAJORS IN
SECRETARIAL SCIENCE IN THE
SCHOOL OF COMMERCE**

FIRST YEAR

Course	Department	F.	W.	S.
Freshman Composition	Eng. 10	5		
Economic Resources of U. S.	Econ. 4	3		
Biological Science			5	5
Commercial Law	Pol. Sc. 11.....	3		
Beginning Shorthand	B. A. 75, 76.....		5	5
Type-writing	B. A. 86, 87, 88.....	1	1	1
Social Relations	Soc. 4		3	
Office Appliances	B. A. 93, 98, 94.....		2	1
Exact Science		5		2
Principles of Sociology.....	Soc. 70			3
Physical Ed. or Military Science....	P. E. or M. S.....	1	1	1
Total.....		(53)		

SECOND YEAR

Course	Department	F.	W.	S.
Second Year Composition	Eng. 11	4		
Business English	B. A. 30	3		
Adv. Typewriting	B. A. 89, 90, 91.....	1	1	1
Office Appliances	B. A. 99	1		
Commercial Law	Pol. Sc. 12, 13.....		3	3
General Economics	Econ. 51, 52.....	5	5	
Introductory Accounting	B. A. 1, 2.....		5	5
Advanced Shorthand	B. A. 78, 79, 80.....	3	3	3
Exact Science				5
Physical Ed. or Military Science....	P. E. or M. S.....	1	1	1
Total.....		(54)		

THIRD YEAR

Course	Department	F.	W.	S.
Accounting	B. A.	5	3	3
United States History.....	His. 132, 133.....		2	2
Biological Science			3	
Psychology of Business Relations..	B. A. 54.....	3		
Principles of Selling.....	B. A. 51.....			3
English (elective)	Eng.	3	3	3
Principles of Psychology.....	Psy. 101		3	
Business and Office Practice.....	B. A. 175.....			3
Electives			3	3
Risk and Risk Bearing.....	B. A. 146.....	5		
Total.....		(50)		

FOURTH YEAR

Course	Department	F.	W.	S.
International Economic Problems	Econ. 140	3		
European History	His. 126	2		
Report Writing	B. A. 176	2		
Secretarial Science	B. A. 178	3		
Business and Professional Ethics	B. A. 136		2	
Business Policy	B. A. 149		5	
College Grammar	Eng. 105	5		
Principles of Taxation	Econ. 155			3
Elective		2	10	10
		Total..... (47)		

**SUGGESTED COURSE FOR TEACHING MAJORS IN
SECRETARIAL SCIENCE IN THE
SCHOOL OF COMMERCE**

FIRST YEAR

Course	Department	F.	W.	S.
Freshman Composition	Eng. 10	5		
Economic Resources of U. S.	Econ. 4	3		
Biological Science			5	5
Citizenship	Pol. Sc. 4	3		
Beginning Shorthand	B. A. 75, 76		5	5
Typewriting	B. A. 86, 87, 88	1	1	1
Social Relations	Soc. 4		3	
Office Appliances	B. A. 93, 98, 94		2	1
Exact Science		5		2
Principles of Sociology	Soc. 70			3
Physical Ed. or Military Science	P. E. or M. S.	1	1	1
		Total..... (53)		

SECOND YEAR

Course	Department	F.	W.	S.
Sophomore Composition	Eng. 11	4		
Business English	B. A. 30	3		
Typewriting	B. A. 89, 90, 91	1	1	1
Office Appliances	B. A. 99	1		
Commercial Law	Pol. Sc. 12, 13		3	3
General Economics	Econ. 51, 52	5	5	
Introductory Accounting	B. A. 1, 2		5	5
Advanced Shorthand	B. A. 78, 79, 80	3	3	3
Exact Science				5
Physical Ed. or Military Science	P. E. or M. S.	1	1	1
		Total..... (54)		

THIRD YEAR

Course	Department	F.	W.	S.
Accounting	B. A. 101, 102, 103....	5	3	3
United States History.....	His. 132, 133.....		2	2
Biological Science			3	
Psychology of Business Relations.....	B. A. 54.....	3		
Principles of Selling.....	B. A. 51.....			3
English (elective)	Eng.	3	3	6
Principles of Psychology.....	Psy. 101		3	
Business and Office Practice.....	B. A. 175.....			3
Science of Education.....	Ed. 111		3	
Risk and Risk Bearing.....	B. A. 146.....	5		
		—	—	—
		Total.....(50)		

FOURTH YEAR

Course	Department	F.	W.	S.
International Econ. Problems.....	Econ. 140	3		
European History	His. 126	2		
Psychology	Psy. 102		3	
Educational Administration	Ed. 121	3		
Secretarial Science	B. A. 178.....	3		
Business & Professional Ethics.....	B. A. 136.....		2	
Public Health and Hygiene.....	Phys. 108			3
Social Problems of the Family.....	Soc. 171			3
Methods in Secondary Schools.....	Ed. 114		3	
Practice Teach. & Comm. Meth.....	Ed. 115			4-8
Business Policy	B. A. 149.....		5	
College Grammar	Eng. 105	5		
Education (elective)			4	
		—	—	—
		Total.....(47)		

ECONOMICS

W. L. WANLASS, *F. D. DAINES, JOS. A. GEDDES, WILLIAM PETERSON, Professors; V. D. GARDNER, W. U. FUHRIMAN, Associate Professors; M. D. KETCHUM, Assistant Professor; H. H. CUTLER, Assistant.

Students majoring in this Department should include the following senior college courses in either the major or special group. Economics 116, 125, 135, 140, 155, 165, 167, 180, 181, 182, 205, and 206; Agricultural Economics 113; Accounting 101 and 102; Political Science 106, 107, 108, 109, 124, and 125.

4. **Economic Resources of the United States**—An analysis of the resources and industries of the United States, with emphasis upon their regional distribution. Effects of the physical and geographic environment upon population and the social system. Particular attention is paid to those forces bringing about changes in our economic structure. Fall and Winter quarters. Three credits.

On leave of absence.

Ketchum

10. **The Natural Economic Resources of Utah**—Includes a study of land and water relationships, waterpower, timber, and metal and mineral deposits, as they have influenced the industry of the era. Special study will be given to the geographic distribution and economic importance of deposits containing gold, silver, iron, copper, zinc, manganese, clay, gypsum, coal, sulphur, cement, lime, gilsonite, elaterite, oil shale, oil salt, alunite, phosphate, sulphate, etc. The various manufacturing processes involved in the turning Utah's natural resources into finished products will be studied. Attention will be given to the size, character, and location of the deposits as they affect manufacturing processes, as well as the markets for the products and the competition with other supplies. Winter quarter. Five credits.

William Peterson

25. **Economic Development of Western Europe**—A survey of the development of economic institutions and systems in those countries of Europe which have contributed most to and are most intimately connected with the economic life of the United States. Comparison and contrast between European and American economic institutions. The development of trade relationships between Europe and the United States. The procedures and practices involved in the conduct of European-American trade. Fall quarter. Three credits.

Ketchum

30. **Economic Development of the United States**—This course indicates the dominance of economic forces in history. A critical study of the evolution and progress of American agriculture, industry, commerce, transportation, banking, labor organizations, etc., from the Colonial period to the present time, ending with a survey of existing institutions. Winter quarter. Three credits.

Ketchum

51. **General Economics**—An introductory course covering the entire field of Economics. After a brief survey of man's economic development, a careful study is made of those fundamental principles upon which modern economic life is based. Attention is also given to such subjects as money, credit, banking and labor problems. Fall, Winter and Spring quarters. Five credits. (Not open to Freshmen.)

Staff

52. **Advanced General Economics**—This course is especially designed for students of the School of Commerce and others who desire a more thorough grounding in Economics. A more intensive study of economic laws will be made with special reference to their application to present economic problems. Required as a prerequisite to all senior college courses in the School of Commerce except in Agricultural Economics and Marketing. Prerequisite, Economics 51. Fall, Winter and Spring Quarters. Five Credits (Not open to Freshmen.)

Staff

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 51, 52. (Not given 1933-34.) Three credits.

Wanlass

125. **Labor Problems**—A study of the labor situation from the social point of view. Special attention is given to labor problems and to methods of securing industrial peace. Prerequisites, Economics 51, 52. Three credits. (Not given 1933-34.)

Geddes

131. **Business Statistics**—Application of statistical methods to problems of business with attention to graphs, analysis of true series, interpretation of index numbers and the statistics of particular industries and business in general. Prerequisites, Math. 75, Economics 51. Winter quarter. Five credits. This course may be used for a major in Bus. Adm.

Gardner

135. **Transportation Economics**—Emphasis is placed chiefly on railroad transportation in the United States. Some attention will be given to highways transportation. The underlying economic principles will receive more attention than the practical phases of transportation. Special attention will be given to those problems that are peculiar to the intermountain section. Prerequisites, Economics 51, 52. Spring quarter. Three credits. (Not given 1933-34.)

Wanlass

140. **International Economic Relations**—Special attention will be given to the basic economic relationships existing between the industrial nations of the world, international commerce, tariffs and trade restrictions, international debts and finance, and various means of promoting progress on a basis of sound economics. Prerequisites, Economics 51, 52. Spring quarter. Three credits.

Wanlass

145. **Economics of Consumption**—There is an economics of consumption that is quite as important as the economics of production. This course deals with personal and group expenditures, standards of living, budgets, variations in consumption, etc. Fall quarter. Two credits.

Wanlass

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 taxes and the various business taxes will be studied. Special attention will be given to tax problems in Utah. Prerequisites, Economics 51, 52. Five credits. (Not given in 1933-34.)

Wanlass

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 51, 52. Fall quarter. Five credits.

Wanlass

167. **Banking**—The functions and operation of such financial institutions as commercial banks, savings banks, and trust companies will be studied critically. This will be followed by an historical treatment of banking in the United States and a survey of European and Canadian banking in comparison with our Federal Reserve System. Varied reading and reports on pertinent problems will be part of the course. Prerequisites, Economics 51, 52. Winter quarter. Five credits.

Wanlass

168. **Advanced Credit and Banking**—A study of the factors affecting the international flow of funds and the relationships of banking institutions thereto. Foreign exchange, Governmental policies affecting inflation and deflation of money. International debts. Spring quarter. Five credits. (Not given 1933-34.)

Wanlass

175. **Public Utility Economics**—A study of the economic principles involved in the furnishing of communication and urban transportation services and the provision of light, heat and power facilities by the public service companies of the United States. Prerequisites, Economics 51, 52. Fall quarter. Three credits. (Not given 1933-34.)

Ketchum

171. **Economics of Business Cycles**—A study of the theory, history and statistics of business cycles and of problems of their prediction and control. Prerequisites, Economics 51, 52. Winter quarter. Three credits.

Ketchum

172. **Industrial Combinations and Monopolies**—This course deals with the causes of the tendency toward combination on the part of industrial enterprises, the significance of this tendency as related to various phases of economic life, and the social problems which have arisen as a result of this tendency. Prerequisites, Economics 51, 52. Spring quarter. Three credits.

Ketchum

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

Wanlass

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.

Wanlass

205. **History of Economic Doctrines**—A critical study of the origin and development of the economic theories of the leading thinkers in the leading nations of the world from 1750 to the present time. Spring quarter. Two credits.

Wanlass

206. **Advanced Economic Theory**—A critical analysis of present day economic theories and doctrines. The purpose of the course is to enable students to get a better grounding in economics and to correlate the work of the various courses in economics. Only senior and graduate students who have had considerable work in economics will be admitted. (Not given 1933-34.)

Wanlass

POLITICAL SCIENCE

*F. D. DAINES, ASA BULLEN, W. L. WANLASS, Professors.

Students majoring in this department should include the following senior college courses either in the major or special group: Political Science 103, 116, 117, 118, 124, 125, 150, 151, 152; Psychology 101; Sociology 140; History 157, 158, 159; and Economics 125, 131, 132, 155.

4. **Citizenship**—The aim of this course is to make a study of the social environment, from the point of view of discovering the points of contact between the individual and the problems of human relationship. Fall, Winter, or Spring quarter. Three credits. (Not given 1933-34.)

11. **Commercial Law**—A general survey of the nature, source, form, expression and classification of law. The place of law in business and commercial life. The course will be completed in one quarter and is intended as one of general information to students of the college outside the School of Commerce, as well as an introductory

*On leave of absence.

course to students intending to take any or all of the other Commercial Law courses. Open to all students of sophomore standing or above. Fall quarter. Three credits.

Bullen

12, 13. **Commercial Law**—A comprehensive study of the law of contracts and agency. Open to all students of sophomore standing or above. Winter and Spring quarters. Three credits each quarter.

Bullen

50. **American Government**—The American Federal System as it is organized and functioning under modern industrial, social and political conditions. Fall quarter. Three credits.

Wanlass

104, 105, 106. **Commercial Law**—A comprehensive study of the law of negotiable instruments, bailments, sales of personal property, insurance, partnerships, corporations and bankruptcy. Prerequisites, Political Science 11, 12, 13. Fall, Winter and Spring quarters. Three credits each quarter.

Bullen

107, 108, 109. **Commercial Law**—A comprehensive study of the law of real property. The nature and tenure thereof, estates, deeds, conveyancing, abstracts of title, mortgages and other liens, wills and estates. Prerequisites, Political Science 11, 12, 13. Fall, Winter and Spring quarters. Three credits each quarter. (Given 1933-34.)

Bullen

113. **Municipal Government**—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. Prerequisite, one year of Social Science. Winter quarter. Three credits.

Wanlass

116. **Theory of State**—The nature of the State, its organization and activities, and its relation to individuals and to other states. Prerequisite, one year of Social Science. Three credits. (Not given 1933-34.)

117. **American Political Ideas**—Fundamental theories underlying American Political institutions and governmental policies. Prerequisite, one year of Social Science. Five credits. (Not given 1933-34.)

118. **Political Parties**—Their function in government; their organization and methods. Prerequisite, one year of Social Science. Three credits. (Not given 1933-34.)

120. **Relation of Government to Industry**—An interpretation is sought of the present trends in regard to governmental regulation and control of important industries in the United States, the labor policies of the government and governmental aids to industry, with a discussion of the political philosophy implied in these trends and policies. Spring quarter. Three credits.

Wanlass

127. **Constitutional Law**—The Constitution of the United States, especially as determined by judicial interpretation. Five credits. (Not given 1933-34.)

201, 202, 203. **Current Political Problems** (Political Science Seminar)—A course designed for junior, senior, and graduate students majoring in political science and related subjects. Required of those graduating in Political Science. Fall, Winter and Spring quarters. One credit each quarter.

Wanlass

SOCIOLOGY

JOSEPH A. GEDDES, W. W. HENDERSON, *F. D. DAINES, Professors; CAROLINE M. HENDRICKS, Assistant Professor.

Sociology 70 is prerequisite for all upper division courses in Sociology. Sociology 4 and 61 are acceptable for the major, but may not be counted for group requirements in Social Science.

Students majoring in this department may emphasize any of the following five fields: (1) General Sociology; (2) Rural Welfare; (3) Social Work; (4) Family Welfare, and (5) Social Research.

Nuclei courses about which the choice of major and special group courses should revolve are suggested as follows:

Rural Welfare—Soc. 101, Soc. 140, Soc. 185, 190, 191, 192.

Social Work—Soc. 100, Soc. 140, Soc. 161, Soc. 170, Soc. 171, Soc. 172, Soc. 173, Soc. 174, 190, 191, 192, Soc. 203.

Family Welfare—Soc. 170, Soc. 140, Soc. 171, Soc. 172, Soc. 190, 191, 192.

General Sociology—By consultation with department.

Research—Ec. 131, Soc. 140, Soc. 190, 191, 192. Graduate work in this field, open to seniors, includes Soc. 201, 202, 204.

The special group may be filled from the following list of subjects through consultation with the department.

Accounting 107.

Zoology 111, 112, 131.

Psychology 101.

Public Health 108, 190.

Economics 131, 145, 205.

Political Science 124, 125.

Household Administration 125 (for women).

Geology 105, 106.

On leave of absence.

4. **Social Relations**—Given in conjunction with Political Science 4 and Economics 4 as an orientation course for freshmen. It emphasizes developmental materials as contrasted with a scientific treatise. Social conflicts and maladjustments are treated in such a way as to clarify adjustments and accommodations. Credit may be used to fill group requirements, but may not be used as a prerequisite for upper division courses. Fall, Winter or Spring quarter. Three credits.

Hendricks

40. **Modern Social Problems**—A selection of a series of social problems is made. These problems are studied with the two-fold object of ascertaining the present situation and of arriving at common-sense solutions. Winter quarter. Three credits.

Hendricks

61. **Women and Culture**—Open to women students only. A study is made of woman's contribution to culture. Traditional forms of individual refinement are observed, with the purpose of becoming familiar with inherently harmonious, balanced-types of personality. The richly varied, yet unified, life is emphasized. Spring quarter. Two credits.

Hendricks

70. **Principles of Sociology**—The foundations of sociology are studied in order that a plan of social progress may be formulated. The problems of social origins, social structures, public opinion, social activities, social organization, and social evolution are carefully considered. Prerequisite for all upper division classes. Fall, Winter or Spring quarter. Three credits.

Hendricks

100. **Applied Educational Sociology**—The social viewpoint is used in this course as a means of appraising curriculum and materials. The socialization of attendance, discipline and methods receives attention. An attempt is made to relate the teaching population and the student population to the social order. Spring quarter. Three credits.

Geddes

101. **Applied Rural Sociology**—An advanced course. A study is made of the problems of rural life as a basis for constructive action in developing and maintaining an efficient and wholesome civilization in the country. Prerequisite, Sociology 70. Fall quarter. Five credits.

Geddes

113. **Heredity and Eugenics**—See Zoology and Entomology 113 for description of course.

Henderson

124, 125. **Public Opinion**—See Political Science 124, 125, for description of course.

Daines

140. **Social Psychology**—The influence of the "groups" in the formation of the "norms" of life and in exerting pressure on the personality is stressed. Fall quarter. Five credits.

Geddes

150. **Environmental Factors in Child Life**—Home conditions are dealt with briefly in this course in natural and adopted homes. The principal emphasis is on community influences and pressures which assist in the development of the personality. Field trips will supplement lectures as a means of coming into contact with societies, organized agencies and institutions. Spring quarter. Three credits.

Geddes

170. **Juvenile Delinquency**—A study of juvenile offenders. The causes of delinquency are considered with the purpose of arriving at intelligent remedies. Various methods of home, social, and institutional treatment are studied; parental cooperation, personal supervision allied with probation and parole, institutional treatment, etc. Winter quarter. Three credits. (Not given 1933-34.)

Hendricks

171. **Social Problems of the Family**—In this course the relations of the family with outside groups, agencies, and institutions are stressed. Attention is also paid to the inter-relation between the different members of the family. Home life is treated as a changing, developing, basic organization which should be in constant reciprocal relation with outside agencies. Fall or Spring quarter. Three credits.

Hendricks

172. **Poverty and Dependency**—A study is made of the extent of poverty, its causes, remedies now in use and others which give promise. Social methods of caring for dependents are examined. Emphasis is placed on programs which look to prevention and to minimization as well as to adequate care. Winter quarter. Three credits.

Hendricks

173. **Social Investigation**—This course deals with the nature of social evidence, with the management of inferences, with the art of interviewing, with the use of family information, outside sources, documentary sources, social agencies as sources, etc. Three credits. Alternates with Soc. 100. (Not given 1933-34.)

174. **Public Welfare Administration**—In this course the organization of the commissions, boards or departments which deal with

the dependent and delinquent groups is studied. Provision for the aged, dependent mothers, unemployed, mentally handicapped and criminal groups is given attention. Three credits. Alternates with Soc. 185. (Not given during 1933-34.)

185. **Community Organization and Leadership**—A course dealing with the efforts of communities to organize the various fields which have to do with the chief interests of life. The coordination of agencies, the opportunities for leadership, the effects of disorganization are studied. Spring quarter. Three credits.

Geddes

190, 191, 192. **Seminar in Sociology**—Fall, Winter and Spring quarters. One credit each quarter.

Department

The following courses may also be used to satisfy the requirements for a major in Sociology.

Public Opinion (Political Science 124).

Eugenics (Zoology and Entomology 112). Eugenics cannot be used to satisfy the Social Science group requirement of 12 hours.

Labor Problems (Economics 125).

GRADUATE COURSES

201. **Research in Sociology**—For advanced students only. A project is organized and field work is carried on under supervision. Original studies are made. Prerequisites, Sociology 4, 70, Math. 22. Credit and hours to be arranged.

Geddes

202. **The Study of Society**—An advanced course in Sociological theory. Sociology is studied as a classified body of facts and as a method of investigation. Prerequisite, Sociology 70. Winter quarter. Five credits. (Not given 1933-34.)

Geddes

203. **Social Service Field Work**—During 1933 through a co-operative arrangement with the Family Welfare Department of the L. D. S. Relief Society and the Children's Service Society of Salt Lake City, six weeks of field work in family case work is provided. This work is done under the joint direction of the head of the department and the supervisors of the agencies. Three hundred hours of supervised field work is contemplated. Open to graduate students and seniors by permission. Eight credits.

Geddes

204. **Methods in Social Research**—A study of present methods of carrying on social research. Exploration, the interview, the survey, the diary, the letter, the life history, interpretation of data are stressed. Prerequisites, Sociology 4, 70, Math. 75. Fall quarter. Two credits.

Geddes

EDUCATION

ART

CALVIN FLETCHER, Professor; H. R. REYNOLDS, Assistant Professor.

1. **Creative Design and Nature Appreciation**—Creative expression in terms of design of the natural and artificial forms found in one's environment. Fall quarter. Three credits.

Fletcher and Reynolds

2. **Elementary Design**—Principles of design as applied to color, form, and pattern in the common things about us. Winter quarter. Three credits.

Fletcher and Reynolds

3. **Design and Art Appreciation**—Survey Course in design as applied to Interior Decoration, Costume Design and consideration of basis for judgment and appreciation of painting and sculpture. The course is adequately illustrated with the lantern projector. Spring quarter. Three credits.

Fletcher and Reynolds

31. **Commercial Art and Posters**—Design in advertising, displays, lettering, etc. Recommended to students of Commerce, show-card writers, illustrators, and teachers of Art in Junior and Senior High School. Three credits.

Reynolds

32. **Color**—Color as used in stage lighting, painting, design, and the everyday affairs of life. Its physical, psychological and artistic phases are correlated. Designed for the business man, layman, dramatic artists, art teachers, and artists alike. Spring quarter. Three credits.

Reynolds

33. **History and Appreciation of Art**—Survey course in appreciation of the masters from Cimabue to the present. Designed for the layman desirous of extending his art knowledge as well as for teachers and art students. Spring quarter. Three credits.

Reynolds

34. **Art for Young Children**—Designed to meet the needs of child development specialists, mothers in the home, kindergarten and first grade teachers. Art and handwork as developmental factors in child life. Normals should register for Art 51, 52, 53 as this course is not adequate for their needs. Winter quarter. Two credits.

Fletcher

51. **Drawing for Elementary Grades**—Methods of teaching representative art in the grade schools. How to make art contribute to the social, aesthetic and creative needs of the child as part of his correlative system of education. Spring quarter. Three credits.

Fletcher

52. **Design for Elementary Grades**—Design as a contributing factor in the social, aesthetic, and creative activity of child life. Color, form, and pattern as basic to most human activity will be taken up. Prerequisite, or parallel, to Art 53. Fall or Winter quarter. Three credits.

Reynolds

53. **Handwork for Elementary Grades**—Designed to equip Normal students to teach in the grades. How to manage the new benchwork; puppetry; pottery; book binding and other crafts in school. Prerequisite, or parallel, Art 52 or equivalent. Winter quarter.

Reynolds

122. **Home Planning Construction and Design**—House design, landscape garden design, house planning, construction, heating, lighting, plumbing, etc. How to select the type of house and properly construct and equip for needs of the home maker. Fall quarter. Three credits.

Fletcher

123. **Interior Decoration**—Selection of furniture, style in furnishing, wall treatment, draping, rugs and floors, pottery, pictures, etc., and the assembling of these to produce the home beautiful. Art 1, 2, and 122 should precede this course if possible. Four lectures and one lab. Winter quarter. Five credits.

Fletcher

124. **Perspective**—The principles of cylindrical, parallel, oblique, and modernistic perspective as used in the arts will be covered. Fall quarter. Three credits. (Not given 1933-34.)

Fletcher

125. **Anatomy and Figure Drawing**—Study of art forms in the human figure by means of artistic anatomy and creative expression by use of the human figure. Fall quarter. Three credits.

Fletcher

126. **History and Appreciation of Architecture**—The characteristics of the great styles of building and their evolution, and the development of a taste for good architecture. Adapted alike for the layman, home maker, or teacher. Spring quarter. Three credits.

Fletcher

151. **Art Education for High Schools**—What to teach and how to present it. Drawing, painting, design, crafts, and theory are all considered. Basic knowledge of drawing and design prerequisite. Required of all art majors planning to teach in Junior or Senior high school. (Not given 1933-34.)

STUDIO COURSES

Conducted as in individual laboratory work. Three hours work each week required for each credit granted. Two, three, or more credits may be taken each quarter. Students must file their studio hour schedule with the professor in charge during the first week of their attendance.

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

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

A class in pose drawing will meet Wednesday, 2-5, during the Winter quarter.

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

4. **Drawing**—Free hand drawing from still life, cast and nature.

Fletcher

5. **Elementary Painting**—In water color, oil, or pastel.

Fletcher

6. **Elementary Modeling**—Form antiques and nature.

Fletcher

7. **Illustration**—Elementary illustration and processes for newspapers, books, and magazines.

Fletcher

8. **Embroidery Design**—Design for embroidery, lace weaving, etc.

Fletcher

9. **Historic Ornament**—Egyptian, Assyrian, Greek, French and Renaissance may be studied.

Reynolds

10. **Elementary Show Card**—Show card and elementary sign writing.

Fletcher

11. **Pottery**—Elementary, including building, turning, glazing, firing, etc., such as may be done with limited equipment.

Reynolds

12. **China Painting**—Elementary painting processes. Prerequisites, Art 1, 2, 3, or equivalent.

Fletcher

13. **Copper Work**—Simple exercises in sawing, raising, and repousse.

Reynolds

14. **Leather Work**—Elementary etching, dyeing, cutting, and tooling in leather mats, purses, bags, etc.

Reynolds

15. **Basketry**—Weaving processes in reed, raffia, and grass.

Reynolds

16. **Enameling**—Work on glass, wood, ivory, polychrome, etc.

Reynolds

17. **Fabric Decoration**—Elementary stenciling, tie and dye, block-printing, and Batik.

Reynolds

106. **Advanced Drawing**—Life drawing from draped figures, animal drawing, and advanced antique.

Fletcher

108. **Advanced Painting**—Oil, water color, or pastel may be used.

Fletcher

109. **Advanced Modeling**—From animals or living models.

Fletcher

110. **Advanced Illustration**—Newspaper, magazine, costume and decorative illustration, illumination, poster work, or cartooning may be chosen. Opportunity is also given to take scientific illustration. Students will take one line at a time.

Fletcher

111. **Professional Design**—Design for textiles, wall paper, interior decoration, furniture, stage, etc. One line to be taken at a time.

Fletcher.

112. **Advanced Costume Design**—Prerequisites, Textiles 105, 115.

Fletcher

113. **Advanced Show Card and Technical Sign Work.**

Fletcher.

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

Reynolds

115. **Advanced China Decoration**—Incrusted work, enameling, lustre, and paste to be taken up.

Fletcher

116. **Advanced Art Metalry.**

Fletcher

117. **Jewelry**—Sawing, wire work, filigree, stone setting, enameling, soldering, will be taken up with brooches, rings, lav-ailliers, pins, chains, etc.

Reynolds

118. **Advanced Leather Work**—Tooling, carving, mounting and finishing.

Reynolds

119. **Advanced Wood Ornamentation and Picture Framing**—Carving, inlay, scraffito, esso, etc.

Fletcher and Reynolds

120. **Advanced Fabric Decoration**—Advanced work in batik, dyeing, stenciling and block-printing.

Reynolds

206. **Advanced Drawing**—From animals, life, and close anatomical analysis.

Fletcher

209. **Advanced Modeling**—Original projects in sculpture to be carried out.

Fletcher

208. **Advanced Painting**—Landscape or portrait may be followed.

Fletcher

211. **Professional Design**—Interior decoration, stage design, or commercial design may be taken up.

Fletcher

EDUCATION

E. A. JACOBSEN, Professor; C. E. McCLELLAN, L. R. HUMPHERYS, Associate Professors; EDITH BOWEN, ELSA BROWN BATE, Assistant Professors; GEORGE W. BATES, ALVIN HESS, Instructors.

4. **Principles of Education**—A study of (a) the meaning and purpose of education, formal and informal; (b) the nature of the human mind and the learning process; (c) the objectives of education as determined by the individual's needs and by the demands of the social group; (d) the nature and function of the school as an educative agency. Fall, Winter or Spring quarter. Five credits.

McClellan

6. **Educational Organization and Administration**—A brief survey of the evolution of American public schools. A comparative study of the organization and function of the different units of educational control (national, state and local); methods of raising and apportioning school funds. Special attention will be given to Utah School law and its administration. Spring quarter. Three credits.

Jacobsen

104. **Elementary School Curriculum**—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. Fall, Winter or Spring quarter. Three credits.

Bowen

105. **Principles of Teaching in Elementary School**—The spontaneous purposeful activity of the child as the basic principle determining teaching procedure. 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, Winter or Spring quarter. Three credits.

Bowen

106. **Practice Teaching**—This course is for juniors who have had educational psychology, principles of education and methods. The apprentice plan is followed which requires an initial period of observation with minor responsibility but with gradual increase of work and responsibility as trainee's ability is demonstrated. Fall, Winter or Spring quarter. Nine credits. The quarter during which the student is to do practice teaching must be arranged for at the time of registration in the Fall quarter.

Bowen

110. **History of Education**—A brief review of the historical development of educational theories and practices from the Greeks to the present. Special emphasis will be placed upon the relation of education to the social, religious, political and industrial conditions of the period. Important educational reforms and reformers will be studied for the lessons they may teach to modern education. Winter quarter. Three credits.

McClellan

111. **Science of Education**—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, Psychology 102. Fall, Winter or Spring quarter. Three credits.

Jacobsen

114. **Methods in Secondary Education**—A course dealing with the application of the principles of education in the teaching process. Such problems as motivation, presentation of subject matter, and discipline, as they occur in actual teaching will be considered. Required in connection with 115. Fall, Winter or Spring quarter. Three credits.

McClellan

115. **Practice Teaching in High School**—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. Prerequisites, Psychology 102, and Education 111. Four to eight credits. Fall, Winter or Spring quarter. Arrangements must be made at the time of registration in the Fall if training is desired at any time during the year.

McClellan, Bates and Hess

119. **Methods in Teaching Home Economics**—The principles of teaching applied to the selection and development of Home Economics subject matter and to conduct of laboratory and classroom. Prerequisites, Food 20 and 21, or Textiles 10 and 11, and Psychology 102. Winter or Spring quarter. Three credits.

Bate

121. **The Organization and Administration of Education**—(a) The State Law and regulations of the State Board of Education pertaining to public high school; (b) high school courses of study, including the Utah State course; (c) organization, duties and activities of the teaching staff and the student body. Fall or Winter quarter. Three credits.

Jacobsen

122. **Practice Teaching in Home Economics**—Supervised teaching carried on in the Logan High School (for twelve weeks). One group and two individual conferences with each girl weekly. Prerequisite, Education 119. Winter or Spring quarter. Four to eight credits.

Bate

124. **Methods of Teaching Shop Work**—The analysis and classification of trade knowledge. Establishing an effective instructional order. Methods of instruction. Lesson planning. A consideration of the various teaching devices and the Utah course of study. Problems in instructional management. Winter quarter. Five credits.

Humpherys

125. **Practice Teaching in Shop Work**—Supervised observation and practice teaching in various shop units in selected schools near the College. Individual conferences and round table discussion. Prerequisite, Education 124. Winter or Spring quarter. Five to eight credits.

Humpherys

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. Prerequisite, Education 111 or its equivalent. Winter quarter. Five credits.

Humpherys

127. **Practice Teaching in Agriculture**—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. Winter or Spring quarter. Eight credits.

Humpherys

129. **Vocational Educational Guidance and Personnel**—A study of the meaning, purpose and methods of vocational and educational guidance. An analysis of our vocations. How to organize and administer services of guidance and personnel. Winter quarter. Three credits.

Humpherys

131. **Educational Tests and Measurements**—A course dealing with the history, principles and practices of the testing movement. Analysis of types of tests, their construction and use, with some practice in giving, scoring and interpretation. Winter quarter. Three credits.

Jacobsen

135. **Statistics for Teachers**—Practice in the computation and interpretation of simpler statistical measures. Use of labor saving devices in computations. Spring quarter. Three credits.

Humpherys

160. **Philosophy of Education**—The dependence of education upon the methods and deductions of modern thinking; with an attempt, also, to evaluate the functions of and relationships between the various factors that comprise our system of public education. Spring quarter. Two credits.

Jacobsen

229. **Educational Administration**—A study of state, city, and rural school systems, with the principles underlying their organization and administration; an examination of the powers, duties and responsibilities belonging to state and local boards of education, and upon superintendents, principals, and other school officials. A review of the literature of the field. Fall quarter. Two credits.

Jacobsen

230. **Educational Supervision**—A study of the objectives, ideals and present practices of the school; an examination of courses of study as a means of reaching desired objectives; a study of psychological principles as applied to present practices in teaching; a consideration of the technique necessary for the supervisor in determining success or failure on the part of the teacher. Specially arranged visits to teachers at work will constitute a part of the course. Spring quarter. Two credits.

McClellan

237. **Education Seminar**. This course gives opportunity for the investigation and report of individual problems and for group discussion and criticism on these reports. One credit. Fall, Winter or Spring.

Staff

267, 268. **Introduction to Research in Education**—An inquiry into the nature and source of research problems, with a study of the underlying principles and the methods of working out such problems

in the field of education. Some attention is given to the matter of thesis writing as a problem related to research. Fall and Winter quarters. Two credits each quarter.

Jacobsen

271. Research in Education—This course provides for individual work in thesis writing with the necessary guidance and criticism. Nine to fifteen credits.

Staff

MUSIC

WALTER WELTI, N. WOODRUFF CHRISTIANSEN, Assistant Professors.

ASSOCIATED TEACHERS

WILLIAM SPICKER, Violin

A. L. FARRELL, Vocal

MRS. G. W. THATCHER, Piano

SAMUEL E. CLARK, Piano and Organ

MRS. WALTER WELTI, Piano

MRS. FRANCES WINTON CHAMP, Piano

MRS. N. WOODRUFF CHRISTIANSEN, Piano

LUDEAN ROGERS, Piano

MUSIC MAJORS

Vocal: To complete a major in vocal music the following courses are required: Music 4, 5, 6, 8, 9, 10, 30, 31, 11, 12, 13, 135; the ability to play acceptably well upon a musical instrument, preferably the piano; a minimum of three years of vocal instruction, or sufficient to present an artistic recital as prescribed by the major professor; a course in oral expression; a year in at least one foreign language. Consult major professor early and frequently.

Instrumental: Harmony 11, 12, 13, (111, 112, 113). Music 80, 81. Methods 121, 122. At least six quarters in Symphony Orchestra; six quarters in Band; three quarters in Chorus; and sufficient private instruction on some instrument for a creditable solo performance, prescribed by the major professor; or a minimum of six quarters of private study.

8, 9, 10. **Sight Singing and Melody Writing**—The aim is to make singing at sight a natural and logical process, aided by the principles of good melodic progression, interval relationships, and rhythmic movements. Continuous throughout the year. No prerequisites, except the natural ability to carry a melody. Three credits each quarter.

Wolti

11, 12, 13. **Elementary Harmony**—Prerequisite, familiarity with the piano keyboard. Drill will be given on keys, scales and intervals, followed by a study of chords, up to and including modulation and harmonic analysis. Fall, Winter and Spring quarters. Three credits each quarter.

Note: In the vocal division 8, 9, 10, or equivalent are prerequisite to 11, 12, 13.

Welti and Christiansen

15, 16, 17. **Orchestra Combinations**—Students may enter this course by permission of the teacher only. Instrumental trios, quartets, etc., for ensemble training. Students taking this course will be required to furnish music for assemblies and school functions. Fall, Winter and Spring quarters. One-half credit each quarter. Time to be arranged.

Christiansen

18, 19, 20. **Symphony Orchestra**—Provides training and practical experience in a wide range of orchestral work. Students are required to play at all public appearances of the orchestra. Fall, Winter and Spring quarters. One and a half credits each quarter.

Christiansen

21, 22, 23. **Band-B**—For students needing additional work as a preparation for Band-A; also to include students playing instruments whose instrumental sections in Band-A are already filled. This band is in no sense a beginners' band, and members must have a fair degree of skill. This course may continue through the Winter and Spring quarters. Fall quarter. One credit.

Christiansen

24, 25, 26. **Men's Glee Club**—Prerequisite, only a natural singing voice. Consult director as soon as possible to make sure of your qualification and of the part you sing. Cost of music is nominal. All music must be memorized for performances. One credit each quarter, throughout the year.

Welti

27, 28, 29. **Ladies' Glee Club**—Prerequisite and all conditions same as for 24, 25, 26, except as applied to women's voices.

Welti

30, 31. **Methods**—Recommended for Normal Students. A study of songs, rhythms, singing games, intervals, keys, triads, and part singing, as applied in the grades. Material for the lower three grades will be studied in the fall quarter, and the more difficult material for the upper three grades in the Winter quarter. Music 30 is a prerequisite for 31. There is no prerequisite for 30. Three credits each quarter.

Welti

35, 36, 37. **Vocal Groups**—Trios or quartets of male, female, or mixed voices of good quality will be organized upon application to the instructor, provided the voices of those interested are not all of one range. Consult instructor early. Opportunities to perform are plentiful. One credit each quarter.

Welti

38. **Music for Young Children**—Listening lessons for children of Nursery School age. Carefully selected songs and bodily rhythms will also be presented. Fall quarter. One credit.

Welti

41, 42, 43. **Band-A**—This organization is the College Concert Band. Special emphasis will be placed upon the proper instrumentation. Membership will be determined by examination. Concerts will be given and music furnished for athletic events. Members are required to play in all public appearances of the Band. Fall, Winter and Spring quarters. One and a half credits each quarter.

Christiansen

Note: Band men who are required to take Military Science should register for Military Science and then ask to be transferred to the R. O. T. C. band. One credit.

44, 45, 46. **Brass and Reed Groups**—Brass Quartets, Sextets, and Saxophone Quartets. Members will be selected from applicants. Students taking this course will be required to play for school functions. Fall, Winter and Spring quarters. One-half credit each quarter.

Christiansen

80. **Opera Appreciation**—An intensive study will be made of the world's best operas. By means of recordings the choicest musical selections will be learned. Fall quarter. Two credits.

Christiansen

81. **Symphony Appreciation**—Complete symphonies will be given by the phonograph method. A careful study will be made of their form and content. Winter quarter. Two credits.

Christiansen

104, 105, 106. **Music History and Appreciation**—Not open to freshmen. Fall quarter: the lives and works of great composers. Winter quarter: musical forms, large and small. Spring quarter: the historical aspects of music. Texts are assigned and required. This course alternates yearly with 8, 9, 10. Three credits each quarter. (Not given in 1933-34.)

Welti

111, 112. **Advanced Harmony**—Prerequisites, Harmony 11, 12, 13. Chord construction including modulation, secondary sevenths, mixed chords. Leads to a practical knowledge of harmony, useful for anyone in the field of music. Suitable analysis accompanies the work in Harmony. Fall and Winter quarters. Three credits each quarter.

Christiansen

113. **Counterpoint**—This course logically follows 112. Study of polyphonic music writing. Spring quarter. Three credits.

Christiansen

121, 122. **Band and Orchestra Methods**—A study of the various band and orchestra instruments, their character, transpositions, and essential points in the teaching of them. Designed for students who may teach elementary bands and orchestras or who intend to follow music as a profession. Winter and Spring quarters. Two credits each quarter.

Christiansen

135. **Counterpoint**—Strict and free forms of polyphonic choral music, through fifth species. Prerequisites, 111, 112. Spring quarter. Three credits.

Welti

Note: An opera by the combined classes of the Music Department will be presented during the year.

PRIVATE INSTRUCTION COURSES

The following courses are given through private study only and a special fee is charged. Consult the instructor.

Note: Students taking one lesson a week in any private music study, and getting the required amount of practice and preparation, shall register for one and one-half credits per quarter. Students taking two lessons and getting the required amount of practice and preparation, shall register for three credits per quarter. Lesson appointments shall be arranged with the teacher.

Note: Public Recital. A series of recitals will be given at the College during the year. Students registered in the Private Instruction courses are eligible to participate upon recommendation of their teachers. No additional credit is offered for this work.

50, 51, 52. **Piano**—For students having less than two full years of piano instruction.

Associated Teachers

53, 54, 55. **Vocal**—For students having less than two full years of vocal instruction.

Welti and Associated Teachers

56, 57, 58. **Wind Instruments**—All the wind instruments of the band and orchestra. For students having less than two full years of previous training.

Christiansen

60, 61, 62. **Violin**—For students having less than two full years of previous training.

Christiansen and Associated Teachers

150, 151, 152. **Piano**—For students recommended by an associated teacher, and satisfying the departmental standards for the equivalent of two full years of previous study.

Associated Teachers

153, 154, 155. **Vocal**—For students recommended by an approved teacher and satisfying the departmental standards for the equivalent of two full years of previous study.

Welti and Associated Teachers

156, 157, 158. **Wind Instruments**—For students satisfying the departmental standards for the equivalent of two full years of previous study.

Christiansen

160, 161, 162. **Violin**—For students recommended by an approved teacher and satisfying the departmental standards for the equivalent of two full years of previous study.

Christiansen and Associated Teachers

163, 164, 165. **Pipe Organ**—For students recommended for the course and satisfying the departmental standards for the equivalent of two full years of previous piano study.

Clark

PHYSICAL EDUCATION

JOSEPH R. JENSON, KATHERINE C. CARLISLE*, Associate Professors; E. L. ROMNEY, Director of Athletics; W. B. PRESTON, Professor; GENEVA S. GRACE, GEORGE NELSON, Instructors; JOHN CROFT, Assistant Coach.

In the physical education activities of this department an opportunity is given each student to perfect skills in some form of physical activity which will help establish a permanent interest in healthful recreation of the active, rather than passive, type.

A physical examination is given all students at the beginning of each year in order properly to advise them as to the type of activity best suited to their individual needs.

Women students are required to take some physical education activity course for six quarters. This work may be elected by each student.

*On leave of absence.

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. This service is also looked upon as an educational department to teach preventive medicine and hygiene. Through consultations, examinations, 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 and playground management, of the need for directors of physical education in high schools, and for 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 coaches in high schools.

ACTIVITY CLASSES FOR MEN AND WOMEN

60. **Hiking**—Spring quarter. Hours to be arranged. One credit.
Grace
- 61, 62. **Archery**—Fall and Spring quarters. One credit.
Grace and Jenson
- 63, 64, 65. **Recreative Games** —Fall, Winter and Spring quarters. One credit each quarter.
66. **Winter Sports**—Winter quarter. One credit.
Croft
67. **Tennis**—Spring quarter. One credit.
Jenson
- 68, 69. **Elementary Folk Dancing**—Fall and Winter quarters. One credit.
Grace
70. **Elementary Tap Dancing**—Spring quarter. One credit.
Grace
71. **Social Dancing**—Fall, Winter or Spring quarter. One credit.
Grace
72. **Golf**—Spring quarter. One credit.
Croft
73. **Soft Baseball**—Spring quarter. One credit.
Jenson

78. **Parlor Games**—Fall, Winter or Spring quarter. One credit.
 170. **Advanced Tap Dancing**—Spring quarter. One credit. *Grace*
3. **Ping Pong**—Fall, Winter or Spring quarters. One credit. *Jenson*
- 4, 5. **Boxing**—Fall and Winter quarters. One credit. *Jenson*
6. **Horse Shoes**—Spring quarter. One credit. *Jenson*
- 7, 8. **Wrestling**—Fall and Winter quarters. One credit. *Nelson*
- 9, 10. **Fencing**—Fall and Winter quarters. One credit. *Jenson*
11. **Football**—Fall quarter. One credit. *Romney*
12. **Track**—Spring quarter. One credit. *Romney*
- 13, 14, 15. **Handball**—Fall, Winter and Spring quarters. One credit. *Jenson*
- 16, 17, 18. **Elementary Swimming**—Fall, Winter and Spring quarters. One credit. *Jenson*
- 19, 20, 21. **Elementary Tumbling**—Fall, Winter and Spring quarters. One credit. *Jenson*
- 22, 23, 24. **Basketball**—Fall, Winter and Spring quarters. One credit. *Jenson*
- 25, 26, 27. **Individual Activities**—Fall and Winter quarters. One credit. *Jenson*
- 28, 29. **Volley Ball**—Fall and Winter quarters. One credit. *Jenson*

ACTIVITY CLASSES FOR WOMEN

40. **Soccer and Volley Ball**—Fall quarter. One credit.
 41. **Basketball**—Winter quarter. One credit.
 42. **Baseball and Speedball**—Spring quarter. One credit.
 43. **Advanced Gymnastics**—Fall quarter. One credit.

Grace

44. **Tumbling and Stunts**—Winter quarter. One credit.

Grace

45, 46, 47. **Individual Activities**—This course is given for those students physically unable to take the required work in physical education. It is arranged to meet individual needs as shown by physical examination and study of personal tendencies. Fall, Winter and Spring quarters. One credit.

Grace

48, 49, 50. **Natural Dancing**—Dancing based on natural movements offering opportunity for music interpretation and pantomimic dancing. Fall, Winter and Spring quarters. One credit each quarter.

Grace

51, 52, 53. **Swimming**—This course covers elementary and intermediate work in swimming. Fall, Winter and Spring quarters. One credit each quarter.

Grace

54. **Advanced Swimming**—For Women. This course covers advanced swimming, diving, and life saving. Fall or Winter quarter. One credit.

Grace

55. **Red Cross Life Saving**—A study of all material necessary in order to pass the Senior Red Cross Life Saving Test. Spring quarter. One credit.

Grace

141, 142, 143. **Advanced Natural Dancing**—A continuation of Physical Education 48, 49, 50. This course also includes methods of teaching musical interpretation through natural movement. Fall, Winter and Spring quarters. One credit each quarter.

Grace

144, 145, 146. **Advanced Folk Dancing**—A continuation of Physical Education 41, 42. More elaborate folk dances are taught in this course, which also includes program dances, and a consideration of pageant and festival production. Fall, Winter and Spring quarters. One credit each quarter.

Grace

THEORY COURSES FOR MAJORS

81. **Rhythms and Dramatic Games**—For Women. A study of music appropriate for children in the elementary schools, and its use for interpretive movement. Methods of presenting and developing rhythms will also be considered. Fall quarter. Two credits.

Grace

82. **Theory and Practice of Play**—For men and women. A study of the play interests of children and material appropriate for different stages of development. The selection of play material is considered, together with its method of presentation. Winter quarter. Three credits.

Grace

83. **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. Three credits.

Jenson

85. **Competitive Activities**—A course designed to teach students to play basketball, volley ball, tennis, baseball, soccer, football; also the organization of intramural athletics, leagues, etc. Fall quarter. Two credits.

Jenson

87. **Personal Hygiene for Men**—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. Winter quarter. Two credits.

Jenson

91, 92, 93. **Competitive Activities**—For women. Includes practice in methods of coaching sports and athletics for girls. Baseball, basketball, archery, volley ball, tennis, track and field events, soccer, speedball, and swimming arranged seasonally. Fall, Winter and Spring quarters. One credit each quarter.

Grace

106. **Applied Anatomy and Physiology of Exercise**—Prerequisite, Physiology 4. Fall quarter. Five credits.

Carter

111. **Nutrition**—For athletes and Physical Education Majors. For description, refer to Department of Foods and Dietetics. Spring quarter.

Clayton

180a. **Corrective Physical Education**—A study of abnormal curvatures of the spine, flat feet, and other common defects. Open to majors, minors, and normal students only. Winter quarter. Three credits.

Grace

180b. **Practice in Corrective Gymnastics**—Practical application of 180a. Time and credit to be arranged. Consult head of department before registering.

Grace

181. **Corrective Physical Education for Men**—Open to juniors and seniors. This course is devoted to the application of gymnastics for the correction of such common defects as flat feet, spinal curvatures, poor posture. Prerequisite, Physical Education 106. Spring quarter. Five credits.

Jenson

182. **Personal Hygiene**—For women. A study of all phases of personal hygiene including the preparation of a course of study for High School teachers. Fall quarter. Three credits. (Not given 1933-34.)

Carlisle

183. **Principles of Physical Education**—A study of the principles upon which Physical Education is based; the place of Physical Education in our modern educational scheme; a brief consideration of the organization and administration of a department of physical education. Fall quarter. Five credits.

Jenson

184. **Methods of Teaching Physical Education**—A study of Physical Education activities and methods of presentation. Planned as an introductory course to Education 115. Winter quarter. Three credits.

Jenson

185. **History of Physical Education**—Winter quarter. Three credits.

Jenson

186. **Advanced Gymnastics**—A study of methods of teaching gymnastics, such as parallel bars, side horse, rings, and advanced floor work in callisthenics. Spring quarter. Two credits.

Jenson

187. **Advanced Swimming**—For men. A continuation of course 16. The student will be required to pass certain standard tests. Winter quarter. Two credits.

Jenson

188. **Methods of Coaching**—Fall, Winter and Spring quarters. One credit each quarter.

Romney

191. **Physical Diagnosis and Measurements**—For men and women. The course aims to train the prospective physical director to detect the common physical defects. Instruction is given in methods of taking measurements, and in strength tests. Prerequisite, Physical Education 106. Spring quarter. Three credits.

Preston

PSYCHOLOGY

HENRY PETERSON, ERNEST A. JACOBSEN, Professors.

3. **Elementary Psychology**—A general course introducing the student to the science of psychology and to its application in teaching and other activities of modern life. Open to the students of all schools. Fall Winter or Spring quarter. Five credits.

Peterson

8. **Elementary Educational Psychology**—Open to Freshmen and Sophomores who have had Psychology 3 or equivalent. This course prepares for teaching in elementary schools. Fall or Spring quarter. Three credits.

Peterson

101. **Principles of Psychology**—Open to Juniors and Seniors. Deals with the science of human behavior and prepares for the specific lines of applied psychology. Fall or Winter quarter. Three credits.

Peterson

102. **Advanced Educational Psychology**—Open to students who have had Psychology 101 or equivalent. Prepares for teaching in Junior or Senior high school, and for leadership in other lines. Winter quarter. Three credits.

Peterson and Jacobsen

103. **Psychology of Adolescence**—Open to students who have had Psychology 101 or equivalent. A study of the behavior of adolescents. Spring quarter. Three credits.

104. **Psychology of Family Life**—Human mating; marriage and its meaning; harmony in marriage and its psychological basis; the behavior of infants and children in the various stages of growth; hereditary and environmental factors of personality and character development. This is a general course adapted to the needs of all young people. Prerequisite, a course in general psychology. Sophomores may enter by permission of instructor. Winter quarter. Three credits.

Peterson

105. Experiments in Educational Psychology—Prerequisite, Psychology 101 or equivalent. An elementary experimental study of habit formation, sensation, perception, memory, etc. Winter quarter. Two credits.

Peterson

106. Experiments in Educational Psychology—Continuation of Psychology 105. Spring quarter. Two credits.

Peterson

110. Psychology of Infancy and Early Childhood—Prerequisite, Psychology 3 or equivalent. A study of the behavior of infants and small children. Spring quarter. Three credits.

Peterson

ENGINEERING

RAY B. WEST, O. W. ISRAELSEN, GEORGE D. CLYDE, Professors; AARON NEWHEY, A. H. POWELL, L. R. HUMPHERYS, Associate Professors; S. R. EGBERT, D. A. SWENSON, SIDNEY STOCK, H. R. KEPNER, V. H. TINGEY, Assistant Professors.

MILITARY SCIENCE AND TACTICS

CARR W. WALLER, Lt. Col., C. A. C., Professor; WALTER R. GOODRICH, Captain, C. A. C., JOHN H. PITZER, First Lieutenant, C. A. C., Assistant Professors; EUGENE J. CALLAHAN, First Sergeant, D. E. M. L., Instructor.

CIVIL ENGINEERING

APPLIED MECHANICS AND DESIGN

CE 1, 2. **Materials of Engineering**—The chemistry of steel, the alloys, etc., and their special use in machine parts; strengths composition and proper use of wood, plaster, glass, glue, paint, brick, cement, sand and gravel. Mechanical analysis curves, water-cement ratio, cement and concrete testing. Fall and Spring quarters. Three credits each quarter.

Newey and West

(Courses numbered below 100 designate Junior College courses. Courses numbered from 100 to 199 are Senior College, and those numbered above are Graduate courses.)

CE 101, 102. **Engineering Mechanics**—Statics and kinetics, resultant forces, equilibrium of force systems, friction; moments and moments of inertia; force, mass, and acceleration; work and energy; impulse and momentum. Winter and Spring quarters. Five credits each quarter. (See also Physics 150, 151.)

Kepner

CE 103. **Applied Mechanics and Strength of Materials**—The simple machine, reactions, moments, and shears; the design of beams and columns. Fall quarter. Five credits. (See also Physics 152.)

Clyde

CE 106. **Reinforced Concrete**—The fundamental principles of reinforced concrete design. Slabs, beams, girders, and columns. Winter quarter. Five credits.

Clyde

CE 107. **Masonry Construction and Foundations**—Design and construction of stone and concrete masonry structures including bridges, retaining walls, culverts, bins, and chimneys. Foundations. A reinforced concrete arch bridge is designed. Fall quarter. Five credits.

Kepner

CE 108. **Building Construction**—Design and construction of concrete, steel and mill buildings, fireproofing, building codes, cost of various types of buildings. Winter quarter. Three credits.

Kepner

CE 109. **Elementary Structural Theory**—Reactions and stresses, graphic statics, roof and bridge trusses, long span bridges, lateral and portal bracing. Stresses in members of a roof truss and railroad bridge are computed. Spring quarter. Five credits.

Kepner

CE 110. **Advanced Structural Theory**—Slope and deflection by various methods, rigid frames, wind stresses in tall buildings, indeterminate trusses. Prerequisite, CE 109. Fall quarter. Four credits.

Kepner

CE 113. **Structural Design**—Design of steel and timber structures. Details of a roof truss and railroad bridge are designed. Fall quarter. Four credits.

Kepner

CE 202. **Graduate Structural Theory**—Indeterminate structures, secondary stresses, suspension bridges, space frameworks, three and two hinged and hingeless arches. Prerequisites, CE 109, 110. Four credits.

Kepner

CE 203. **Graduate Structural Design**—Investigation, design, and cost comparisons of timber, steel and masonry structures. Four credits.

Kepner

HIGHWAYS

CE 120. **Highway Construction and Design**—Location, grade, drainage, resistance to traction, road materials, construction methods and cost, road and pavement design. Fall quarter. Five credits. Four Rec., 1 lab.

West

CE 121. **Highway Administration**—State, County and City highway departments, highway and local improvement laws, traffic regulations, taxation, and methods of financing country roads and city pavements. Winter quarter. Three credits.

West

CE 125. **Transportation**—Development of highway transportation, comparison of methods of transport of passengers and commodities by highway, railway, and waterway. Organized and operated Rural Motor express lines, freight lines, and bus lines, etc. Fall quarter. Three credits.

West

IRRIGATION AND DRAINAGE

CE 141. **Hydraulics**—Laws of liquids in motion and at rest; flow in natural and artificial channels and elementary principles of water power development. Fall quarter. Five credits.

Clyde

CE 143. **Water Supply and Hydrology**—The occurrence, utilization and control of water. Precipitation, evaporation, transpiration, and runoff. Precipitation runoff relations, mass diagrams, duration curves, and flood flows. Ground water storage developments for power, irrigation, and municipal use. Consumption of water, intakes, and aqueducts, design of distribution systems, and materials, pipes, and fittings. Spring quarter. Five credits.

Clyde

CE 145. **Designs 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, CE 141 and 142. Spring quarter. Three credits.

Israelsen

CE 146, 147. **Design of Irrigation Systems**—Sources of water supply, diversion works, canal alignment and cross section, flumes, drops, and spillways. Prerequisites, CE 141, and CE 101, 102, 103. Fall and Winter quarters. Five credits each quarter.

Israelsen

CE 148. **Hydroelectric Design**—Principles of design of hydraulic machinery used in the generation of power. Dams, penstocks, surge tanks, pipe lines, and plant layouts. Spring quarter. Five credits.

Israelsen

CE 149. Irrigation Institutions and Management—Laws governing the acquirement, adjudication, and distribution of water rights, irrigation and drainage enterprises, valuation of water rights, delivery of water to irrigators, annual water charges, operation and maintenance organizations, and costs. Fall quarter. Five credits.

Clyde

CE 241, 242. 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. Students may register at the beginning of any quarter. Credits and hours to be arranged.

Israelsen or Clyde

MECHANICAL DRAWING

Drawing rooms are open from 8:00 a. m. to 5:00 p. m., daily. Supervised instruction given from 2:00 to 5:00 p. m. A student may register for any number of credits. Three hours per week are required for one credit. All classes conducted simultaneously in Room 307, Engineering Building.

All courses in Drawing to be given by Professor Kepner.

CE 61. Engineering Drawing—Use of instruments, lettering, applied geometry, orthographic projection and pictorial representation. Fall quarter. Three credits.

CE 62. Engineering Drawing—Technical sketching, dimensioning, working drawings. Winter quarter. Two credits.

CE 63. Descriptive Geometry—Point, line, plane problems, developments, intersection, surfaces, mining problems. Spring quarter. Three credits.

CE 69. Advanced Engineering Drawing—Drawing of complete sets of plans for simple machines and parts, tracing, blueprinting, Standard symbols. Three credits.

CE 71. Map Reading and Topographical Drawing—Topographical lettering, symbols, enlargement and reduction of maps, models. Three credits.

CE 75. Architectural Drawing—Freehand sketching, perspective, shades and shadows, building details, plans and details of typical dwelling house. Three credits.

CE 72. Industrial Drawing and Lettering—The use and care of instruments and the elements of orthographic projection. The graphical presentation of business data, plant layout, routing, flow sheets, etc. Inspection trips will be made to typical industries. Winter quarter. Three credits.

SURVEYING

CE 81. **Plane Surveying**—Use of tape, transit, level, compass, etc., in field problems and traverses. Differential and profile leveling, plotting, mapping, and care of instruments used by engineers. Fall quarter. Four credits.

Tingey

CE 82. **Plane Surveying**—Topographical surveying, hydrographic surveying and some rural and city surveying. Prerequisite, Trigonometry. Spring quarter. Four credits.

Tingey

CE 83. **Mapping and Office Practice**—Practice in the mapping of the various kinds of surveys that may be encountered by the engineer. Winter quarter. Two credits.

West

CE 181. **Railroad and Highway Curves and Earthwork**—Instructions and practice in railroad and highway curves, transition curves, and earthwork computation. Prerequisites, CE 81, 82. Spring quarter. Five credits.

West

General

CE 190. **Contracts and Specifications**—The form and essential consideration in drawing up engineering contracts and specifications. Fall quarter. Three credits.

West

CE 191. **Railroads**—Economics of railroad location, and railroad construction. Winter quarter. Three credits.

West

CE 192. **Engineering Economics**—Winter quarter. Five credits.

West

CE 194. **Sewerage and Sewage Disposal**—Flow in sewers. Design and construction of sewerage works. Design and construction of sewage treatment works. Spring quarter. Five credits.

Kepner

CE 196. **Heat and Power Machinery**—Steam generation; fuels and combustion; construction and operation of boilers; elementary thermodynamics. Types, details and tests of steam engines and gas engines. Measurement of power. Spring quarter. Three credits. See also Physics 118.

F. L. West

CE 197. **Electric Machinery**—Principles of continuous and alternating current generators and motors; transmission and distribution; air compressors. Winter quarter. Three credits. See also Physics 112.

F. L. West

CE 198, 199. **Undergraduate Thesis**—Senior year, one credit each quarter. Fall and Winter quarters. Hours to be arranged.

Staff

AGRICULTURAL ENGINEERING

AE 1, 2. **Agricultural Surveying**—For students of Forestry and Agriculture. Practice in the handling of surveying instruments, leveling, and traversing. The surveying of forest roads. Public Land surveys and the retracing of section lines. Fall and Spring quarters. Four credits each quarter.

Tingey

AE 3. **Agricultural Drawing**—The use and care of instruments and orthographic projection. Farm structures. Two credits.

Kepner

AE 4. **Agricultural Mapping**—Maps and topographical drawing of farm problems. Two credits.

Kepner

AE 6. **Farm Structures**—The arrangement, design and construction of barns, stables, poultry houses, silos and other farm structures. Winter quarter. Three credits.

Humpherys

AE 7. **Poultry House Design**—The plans and layout of the various types of structures used in Poultry Husbandry, complete layout of poultry ranch. Winter or Spring quarter. Three credits.

Humpherys

AE 8. **Barn and Stable Design**—Various types of barns and stables, layouts and construction. Winter or Spring quarter. Three credits.

Humpherys

AE 9. **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.

West

AE 11. House Construction—Various methods of construction, the frame, two brick, three brick, stucco, cement block and stuccoed hollowed tile; cost and economy of each; interior finishing. Winter quarter. Five credits.

West

AE 12. Irrigation and Drainage Practice—Water measurements, effect of soil and plants 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. Spring quarter. Four credits.

Israelsen

AE 201. Research in Irrigation and Drainage—Specially prepared undergraduate, or graduate students in civil or agricultural engineering 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 or Clyde

AE 13. Farm Motors—This course will cover the care, adjustment and lubrication of the automobile, tractor, the stationary gas engine, and the home lighting and water systems, 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, babbitting and fitting of babbitted 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.

Powell

AE 14. Farm Shop Repair Work—(See Wood Work Unit C.) This course is especially arranged for agricultural students. The application of foregoing 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 chisel; sharpening and tempering harrow teeth, picks, etc. Fall and Spring quarters. Two credits.

Egbert

Egbert

AE 15. Farm Machinery—A complete assembling, adjusting, care and repair of the various types of farm implements and farm machinery. Spring quarter. Three credits.

Powell

AE 16. Gasoline Tractor Operation and Repairing—The overhauling of the tractor, including babbitting of bearings, fitting of new parts and operation of tractor. Fall quarter. Repeating Spring quarter. Three credits.

Powell

AE 21. Oxy-Acetylene Welding—Winter quarter. Three credits.

Powell

AE 102. 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.

Powell

MECHANIC ARTS

AUTO MECHANICS

All courses taught by A. H. POWELL, Associate Professor.

MA 1. Principles of Automobile Construction and Operation—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. The course or its equivalent must be taken by all students who wish to specialize in any branch of automobile work. Fall quarter. Three credits.

MA 2. Principles of Automobile Construction and Operation—A continuation of Auto Mechanics 1. It also deals with the dismantling and the assembling of the automobile. Winter quarter. Three credits.

MA 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 owner has to be familiar with if he is going to do his own repairing and care for his car properly. Winter quarter. Three credits.

Note: Mechanic Arts 4, 101, and 102, 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, Mechanic Arts 1 and 2, or their equivalent.

MA 4. Automobile Repair—Fall quarter. Three credits.

MA 5. Automobile Care, Adjustment and Lubrication—For automobile owners and others 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 adjustment, tappet adjustment and correct general principles of operation. Fall, Winter or Spring quarter. Two credits.

MA 101. Automobile Repair—Prerequisite, Auto Mechanics 4. Winter quarter. Three credits.

MA 102. Automobile Repair—A continuation of MA 101. Includes shop methods and equipment. Prerequisite, MA 101. Spring quarter. Three credits.

MA 103. 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, MA 4 and MA 111. Fall quarter. Three credits.

MA 104. Farm Machinery Research—The economic application of power and machinery to farm crop production, and costs of operations. Fall or Spring quarter. Four credits.

AUTOMOTIVE ELECTRICITY, RADIO AND AVIATION

All courses taught by Sidney R. Stock, Assistant Professor.

MA 11. Elements of Electricity and Magnetism—This course will cover all of the fundamental principles of Electricity and will be taken up as follows: Ohm's Law, Magnets and Magnetism, Electric Power and its various applications, induction, capacity, dry cells and storage batteries, A.C. and D.C. motors and generators and electrical measuring instruments. Fall quarter. Three credits.

MA 12. Ignition, Starting and Lighting—For Winter quarter students only. The course is designed for short-term students who wish to learn enough about the electrical equipment on their cars to enable them to care for and locate electrical troubles and make minor repairs. It will include a study of all of the electrical equipment on the car, its operation, and systematic methods of locating the common troubles and repair of same. Winter quarter. Three credits.

MA 14. Low and High Tension Magnetos—A complete study of the operation of all types of magnetos. Each student will have the opportunity of going through at least thirty different magnetos. Methods of servicing, testing, and repairing are thoroughly covered with ample practical experience on all types. Spring quarter. Three credits.

MA 15. Ignition, Starting and Lighting for Car Owners—The same material is covered as in course No. 12. Students meet for lecture only and demonstrations. The course is especially designed for students who can spend only a short time in the shops but who wish to learn enough about the electrical system on an automobile to enable them to locate and make minor repairs out on the road where expert help is not available. Winter quarter. Two credits.

MA 111. Starting, Lighting and Ignition Systems. A complete study of the modern starting, lighting and ignition systems. The operation of modern ignition systems, generators, starting motors and all automatic and electrical appliances used on the modern automobile. Ample practice is given in dismantling and assembling, testing, wiring and reading of wiring diagrams on all makes of automotive electrical equipment. About three weeks' time will be spent in storage battery repair, lead-welding, testing, and methods of charging storage batteries. Fall quarter. Four credits.

MA 112. Generator Repair and Armature Winding—Fall quarter. Four credits.

MA 113. 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 112. Spring quarter. Four credits.

MA 123. Practical Electricity—Required of all students who prepare to teach in Junior High Schools. This course will include a consideration of the fundamental principles of electricity and their application in the construction of such projects as bell circuits, house wiring, electro-magnets, heating elements, motor generators, transformers. Spring quarter. Four credits.

RADIO

The aims and purposes of the following courses in radio are to acquaint and train the students in the principles of radio reception and broadcasting equipment. Ample practice in the construction, servicing and repair of all kinds of radio receivers is included in the training. Students who complete the courses in a satisfactory manner should be well qualified as radio service men and should be able to pass government tests for radio operators easily. Training in transmitting and receiving of international Morse code is also included in the courses. Fifteen minutes of each laboratory period will be devoted to code training during the first year.

All students are required to pay a laboratory fee of \$2.00. The college will furnish necessary parts and materials to build all experi-

mental models. Each student must, however, have or will be required to purchase necessary tools for his individual use. Prerequisite, MA 11 or its equivalent for all radio courses.

MA 23. Principles and Operation of Radio Receiving Sets—Fundamental operating principles of radio receiving sets, kinds and types of antennae and their installation, the installation and connecting of battery sets, function and operation of vacuum tubes, "A," "B," and "C" batteries, condensers, coils, transformers, etc., introducing radio frequency, detection and audio frequency, building and operation of one, two, three, and four tube sets. Fall or Winter quarter. Four credits.

MA 24. Radio Receiving Sets—A continuation of course MA 23, leading into more advanced work in radio frequency, detection, and methods of audio frequency amplification. The building of a neutrodyne receiver with methods of balancing and neutralizing will be given. Operation of magnetic and dynamic speakers with methods of testing and locating troubles and repair of the various types of sound-producing units. Winter quarter. Four credits.

MA 25. Operation of Alternating Current Receivers—A complete study of A. C. operated receivers, operation and construction A. C. power supply systems with methods of rectification and filtering systems. Characteristics and operation of A. C. vacuum tubes, and tube-testing. Converting of battery sets into A. C. operated receivers, also the construction of complete A. C. receivers may be done. Spring quarter. Four credits.

MA 127. Repair and Servicing of A. C. Receivers—An advanced course in methods of servicing, locating troubles and repair of all kinds of A. C. receivers. Instruction in the use of modern testing and analyzing instruments will be given, with ample practical experience in service and repair work. Practice in international code reception is included. Fall quarter. Four credits.

MA 128. Short Wave Receivers and Transmitters. A careful study of short wave receivers. Also short wave converters and modern combination long and short wave converters will be given. Students will also construct their own short wave receivers and learn to operate them properly. The building of master oscillators of various types such as Hartley, tuned plate, tune grid, and Collpits circuits with methods of tuning, neutralizing and adjusting to proper wave length for amateur transmitting operation. Winter quarter. Four credits.

MA 129. Operation of Short Wave Transmitters and Public Address Systems—Careful training in the operation of short wave transmitters and station procedure will be given. Methods of construction and operation of radio phone transmitters, speech amplifiers, and methods of modulation. Construction, operation, and installation of public address systems is also included in this course.

After finishing these courses students should have no trouble in passing government examinations and obtaining an amateur operator's license and station license. Spring quarter. Four credits.

AVIATION

AVIATION GROUND SCHOOL

A standard Aviation Ground School has been established at the College. Considerable equipment has been secured from the government flying field for laboratory and training purposes.

Students who plan on entering the air service either as pilots or as airplane mechanics will do well to take the courses listed below. Students will save much time, and receive much more detailed and complete instruction than at a commercial school of aeronautics.

MA 26. Aerodynamics—The purpose of the course is to teach the principles and theory of flight of heavier than air machines. A detailed study of the types of modern planes, and their construction, will be covered. Methods of assembling, rigging, inspecting and preparing a plane for flight will be done in the laboratory. Methods of repair of landing gears, wings and fusilage will also be done in the laboratory. Fall quarter. Four credits.

S. R. Stock

MA 27. Aviation Engines—A detailed study of all kinds and types of aviation motors will be taken up as to their installation, operation, design and efficiency. The laboratory work will consist of complete methods of overhauling, repairing, inspecting and testing of the different types of airplane motors. Winter quarter. Four credits.

S. R. Stock

MA 28. Avigation and Aerology—The course will include the study, use and application of various airplane instruments used in the modern plane to safely direct the pilot on his course. Methods of laying out and flying a course by air pilotage, dead reckoning, astronomical avigation and radio avigation will be taken up. Some work in aerology weather maps and a study of weather conditions will also be covered. Spring quarter. Four credits.

S. R. Stock

OXY-ACETYLENE, ELECTRIC ARC AND RESISTANCE WELDING

RESISTANCE WELDING

MA 21. Oxy-Acetylene and Electric Welding—A study of the oxy-acetylene welding process, equipment, gases, 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 blocks 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. Three credits.

Powell

MA 22. A continuation of course 21. Time and credit to be arranged.

Powell

FORGING AND GENERAL BLACKSMITHING

All courses taught by S. R. EGBERT, Assistant Professor.

An average of one-third of the time in all courses in Forging is spent in demonstrating and lecturing. All courses are given in the forge rooms, Mechanic Arts Building. All courses, except as otherwise specified, are repeated each quarter and they are all open to vocational students.

MA 31, 32, 33. **Forge Practice**—Forging, welding, tempering, tool making and other operations essential to forge work. MA 31, three credits; MA 32, two credits; MA 33, five credits.

MA 34, 35, 36. **Forge Shop Operation**—Advanced and general repair work, including plow work, spring work, axle and tire setting, and horse-shoeing. Prerequisites, Forge Practice 31, 32, 33. Fall quarter—MA 34, three credits and two credits. Winter quarter—MA 35, three credits and two credits. Spring quarter—MA 36, three credits and two credits.

MA 37. **Select Work from Forge Practice 31, 32, 33**—For automobile and tractor students who cannot spend each day in the shops. MA 37, two credits.

MA 40, 41, 42. **Farm Shop Work**—This course is especially arranged for students in agriculture. The application of forging operations to repair on the farm. The repairing of the following farm implements will be included in the course; plow, harrow, wagon, hayrake, mowing machine, binder, header, etc. Making and tempering punches and cold chisels, sharpening and tempering harrow teeth, picks, etc., welding. Fall quarter—MA 40, two credits. Winter quarter—MA 41, two credits. Spring quarter—MA 42, two credits.

MA 43. **Fender and Body Repair**—Straightening and welding of broken fenders. Servicing and painting of automobile fenders and bodies. Fall quarter—MA 43, two credits. Spring quarter—MA 43, two credits.

MA 131. **Advanced Shop Practice**—Composition and heat treatment of steel. The student may emphasize any line of blacksmithing work that suits his particular needs. Prerequisites, Forging 34, 35, 36. Credit will be given for unfinished courses according to work done. Not less than two credits will be given. Two to four credits.

MA 132, 134. **Smith Hughes Unit**—Metal Work. Cold metal, hot metal, soldering, sheet metal and plumbing. Fall quarter—MA 132, three credits; MA 134, three credits. Spring quarter—MA 132, three credits; MA 134, three credits.

MA 133. Foundry—Operated for demonstration and the making of castings. If sufficient number of students apply, the foundry will be run for instructional purposes also. Spring quarter. MA 133. Two credits.

MACHINE WORK

All courses taught by A. NEWEY, Associate Professor.

The courses offered in the Machine Work Department give good basic training for the student who is entering a career in any line of mechanical work. The operations and principles taught will help in advancement in many lines of mechanical endeavor. Students preparing for engineering, electrical work, auto mechanics, aviation, ignition, tractor work, farm machinery; and those interested in model building and experimenting, can well afford to study machine work.

All courses in Machine Work are open to vocational students.

MA 51, 52, 53. Machine Shop Practice—Lathe, planer, shaper, and drill-press operations, the use of hand tools, laying out, making automobile and machine parts, and other operations that are essential in machine shop work. These courses include assignments of reading on machine work subjects, and the application of mathematics to machine work. Each course repeats Fall, Winter and Spring quarters. Four or five credits.

MA 54, 55. M. S. P. Short Course—The contents of MA 54, 55 is the same as MA 51. Each course repeats Fall, Winter and Spring quarters. Two or three credits.

MA 56, 57. M. S. P. Short Course—The content of MA 56, 57 is the same as that for MA 53. Each course repeats Fall, Winter and Spring quarters. Two or three credits.

MA 58, 59. M. S. P. Short Course—The content of MA 58, 59 is the same as MA 53. Each course repeats Fall, Winter and Spring quarters. Two or three credits.

MA 151, 152, 153. General Machine Work—Advanced lathe, planer and milling machine work, grinding, milling cutters, making tools, and special shop equipment. Prerequisite, MA 51, 52, 53 (Prerequisite courses must total 15 credits). Each course repeats Fall, Winter and Spring quarters. Four or five credits.

MA 154, 155, 156. Tool Making—These courses include practice in making arbors, gauges, taps, reamers, milling cutters, etc., and in designing and building special tools and equipment. Prerequisite, MA 152. Each course repeats Fall, Winter and Spring quarters. Four or five credits.

MA 157. Smith-Hughes Teachers' Machine Course—This course is planned to give a student, who is training to become a shop-work teacher, a general training in the operations and methods of doing machine work. Its purpose is to broaden his understanding of me-

chanic arts and make him more proficient in tool processes and in the care and repair of school shop equipment. Only students of senior standing may register. From two to nine credits. Time and credit to be arranged with the instructor.

(Note: For unfinished courses credit will be given according to work done, provided the student re-registers. Not less than two credits will be given.)

WOODWORK

All courses taught by D. A. SWENSON, Assistant Professor.

The elementary courses in woodwork give training in the use of woodworking tools and lay a foundation for advanced woodwork. They also enable the student to do the innumerable jobs in repairing and upkeep which come up on every farm and in every home. Time spent in this kind of training will prove valuable to any one, no matter what the eventual choice of profession or occupation may be.

The aim in advanced woodwork is to prepare the student for specialized work in house building, mill work, pattern making, cabinet work or whatever his selection may be in the line of woodwork.

All courses except as otherwise specified are repeated each quarter and they are all open to vocational students.

MA 61, 62, 63. **Elementary Woodwork**—The different methods of joining, splicing and gluing, also practice in saw filing, tool grinding and the proper handling and use of woodworking tools. Two and three credits.

MA 64, 65, 66. **Mill Work**—Use of the planer, shaper, joiner and the different sawing machines and sharpening of cutters and saws, as well as proper adjustments for different kinds of work is taught in these courses. Two or three credits.

MA 67, 68. **Elementary Wood Turning**—Practice in care and use of the turning lathe, sharpening and control of turning tools by the making of progressive projects in elementary turning. Two and three credits.

MA 69. **General Woodwork**—Projects in bench work, turning or mill work as the student may elect. One to five credits. Time and credit to be arranged.

MA 70. **Farm Woodwork**—A special course for students in the Winter quarter. Embraces such problems as are commonly met on the farm. Two credits.

MA 71. **Wood Carving**—Simple problems in straight and curved lines, conventional design and ornamentation. Fall and Winter quarters. Two credits.

Courses 61 to 68 or their equivalent are prerequisite to the advanced courses in woodwork.

MA 161, 162, 163. Advanced Woodwork—Use of woodworking machines in hardwood construction, including the preparation of wood for finishing. Two and three credits.

MA 164, 164B. Fundamentals of Pattern Making—Making of simple patterns to illustrate suitable materials for the work, also the care and precision necessary in making of usable patterns. Prerequisite, MA 67. Two credits.

MA 165. Advanced Pattern Making—Making of practical patterns for use in the foundry. Teaching the principles of shrinkage, core print and core box work, master patterns, double shrinkage, etc. Prerequisite, MA 164. Spring quarter. Two credits.

MA 166. Building Construction—The successive steps in the construction of houses and farm buildings are taken up by lecture and in practice. The course is designed to give practice in actual building operations from the laying of the foundation to that of roof covering with full size dimensions and materials. Fall or Winter quarter. Three credits.

MA 167. Building Construction—Continuation of MA 166, including principles of architecture and design. Winter or Spring quarter. Three credits.

MA 168. Smith-Hughes Teachers Course—A course designed to meet the needs of teachers in Smith-Hughes work. Projects in leather and rope work. Spring quarter. One credit.

MA 169, 169B. Wood Finishing—The use of different kinds of stains, paint, primers and fillers, rubbing, polishing and French polishing. Two credits.

MA 170. Advanced Wood Turning—Wood turning in original design, face turning including finishing, staining and polishing. Two credits.

MA 171. Advanced Wood Carving—Use of carving in the construction of high class furniture and in pattern work. Spring quarter. Two credits.

MILITARY SCIENCE AND TACTICS

CARR W. WALLER, Lt. Col., C. A. C., Professor; WALTER R. GOODRICH, Captain, C. A. C., JOHN H. PITZER, First Lieutenant, C. A. C., Assistant Professors; EUGENE J. CALLAHAN, First Sergeant, D. E. M. L., Instructor.

The Utah State Agricultural College, having accepted the provisions of the Act of Congress approved July 2, 1862, is classified as a Land Grant College and is therefore obliged to offer a course in military science and tactics as a part of the College curricula.

Recognizing that preparation for the national defense is one of the important duties of citizenship, and that qualities of patriotism, loyalty, discipline, leadership, and respect for constituted authority

inculcated by proper military training are valuable in the formation of character, it has been the consistent policy of the College to cooperate with the Federal Government in making the Department of Military Science and Tactics as effective as practicable.

To this end, military training has been made a required subject for all male students qualified and eligible therefor. Two years' training in the basic course is required of such students in all Schools of the College unless excused by proper authority.

At the request of the College authorities a senior unit of the Reserve Officers' Training Corps was authorized at this Institution by the President of the United States under the provisions of Section 33 of the Army Reorganization Act of June 4, 1920. Accordingly, the Board of Trustees has agreed to maintain a course in Military Science and Tactics as a required subject for all able-bodied male students during their first two years at the College.

The primary object of establishing units of the Reserve Officers' Training Corps is to qualify students for appointment in the Officers' Reserve Corps of the United States Army. This training will also be as valuable to the student in his industrial or professional career as it would be should the nation call upon him to act as a leader in its defensive forces.

Enrollment in the Reserve Officers' Training Corps is not in any sense "conscription," nor does it convey liability to service in any component or branch of the United States Army. As its name implies, the R. O. T. C. is an instrument of training and instruction only.

REQUIREMENT IN MILITARY SCIENCE

Two years of military training are required of all able-bodied male students. By regulation of the College the course is required during the first and second years at the Institution.

No male student will be excused from the requirements in military science except for the reasons as listed on page 65 of this catalogue.

Any student claiming exemption for any valid reason will be required to present a petition on the prescribed form which may be obtained at the office of the Professor of Military Science and Tactics.

RESERVE OFFICERS' TRAINING CORPS

The four years' course in the Reserve Officers' Training Corps is divided into the basic course and the advanced course.

The basic course consists of the first two years in Military Science and corresponds to the freshman and sophomore years. When entered upon by any student it shall, as regards such student, be a prerequisite for graduation unless he is relieved from this obligation by proper authority.

The advanced course consists of the third and fourth years of Military Science, and corresponds to the junior and senior years. Entrance upon the advanced course is elective, but once entered upon such course becomes a prerequisite for graduation, in accordance with the terms of the establishment of the Reserve Officers' Training Corps.

UNIFORMS AND EQUIPMENT

A serviceable uniform of standard army pattern is furnished by the War Department to each student taking military training. Shoes are not furnished. Each student should provide himself with a pair of high tan shoes, not lace boots, before entering the College, as they will be required immediately upon his admission.

Every student registered for military science is required to make a uniform deposit of \$5.00. A laboratory fee of \$1.00 will be deducted from this deposit. The balance, less the cost of any property lost or damaged, will be refunded upon the completion of the year or upon withdrawal from the course.

The uniform and equipment issued for the use of student remains the property of the United States. At the end of each year, or at such other times as students may terminate their military training, all clothing and other supplies will be returned in a serviceable condition, not later than one week following the termination of such training. Articles which have been lost, damaged, or destroyed will be charged against the student concerned.

BASIC COURSE

Students in the basic course are required to pursue their courses diligently until satisfactorily completed, and to meet such requirements for the care of equipment as may be prescribed. In case of failure in any quarter of the freshman or sophomore years, the student will be required to repeat the work during the next quarter in residence.

Students who complete the two years' basic course are qualified as non-commissioned officers in the organized reserve, to which position they are appointed if they so desire.

ADVANCED COURSE

The advanced course is elective.

The general prerequisites for admission to the advanced courses are:

- a. Completion of two years' training in the basic course in any senior unit of the Reserve Officers' Training Corps.
- b. Selection for further military training by the President of the College and the Professor of Military Science and Tactics.
- c. The execution of an agreement in writing, whereby the student in consideration of the commutation of subsistence furnished to him, agrees:

- (1) To continue in the Reserve Officers' Training Corps during the remainder of his course in this College.
- (2) To devote a minimum of five hours per week during this period to the military training prescribed.
- (3) To pursue such courses of camp training during this period that may be prescribed by the Secretary of War.

d. The student must be registered in one of the Schools of the College as an undergraduate while pursuing the advanced course.

Each student enrolled in the advanced course will be paid commutation of subsistence at the rate of thirty cents per day from the beginning of the first year of the advanced course to the end of the second year of the advanced course, except while attending camp, when the student will be subsisted in kind.

The course of camp training is for six weeks during the summer vacation, normally following the student's completion of the first year of the advanced course. The United States furnishes uniforms, transportation to and from the camp at the rate of five cents per mile, and subsistence for students attending the training camp. Students are also paid at the rate of seventy cents per day during their attendance at camp.

R. O. T. C. BAND

A military band is an element of the Reserve Officers' Training Corps, under the direction of the Band Instructor, and is governed by the rules of the Department of Military Science and Tactics. Uniforms and instruments are furnished by the War Department.

Members of the band will be selected from among those students who are registered in Military Science and who have demonstrated their ability for such selection. Tryouts for the band will be conducted under the supervision of the Band Instructor and will be held preferably during the first two weeks of each quarter. Members of the band receiving credit in Military Science will be limited to not more than thirty-six (36) students.

Students who are selected for the band will be required to take such theoretical work in Military Science as may be prescribed by the Professor of Military Science and Tactics, and sufficient practical drill to insure their making a creditable appearance in ranks.

Instruction taken by members of the band is credited as instruction in Military Science, but will not be accepted toward qualification for admission to the advanced course.

CREDITS

Students who satisfactorily complete the basic course receive one credit hour per quarter, which may be included in the 180 credit hours required for graduation.

Students who satisfactorily complete the advanced course receive three credit hours per quarter, which counts toward the 180 credit hours required for graduation. In addition, students enrolled in the advanced course will receive three credit hours for satisfactory completion of the six weeks course at the training camp, held during the summer, between the junior and senior years.

Students majoring in the Schools of Arts and Science and Engineering may submit Advanced Military Science as a minor for graduation.

Members of the band who successfully complete the work in the various quarters receive credits as follows: First and Second years, one credit per quarter in Military Science.

COURSES OF INSTRUCTION

Classes in Military Science will not be held at times other than as scheduled, but any student desiring extra instruction may make the necessary arrangements with the professor of Military Science and Tactics.

BASIC COURSES

1. **Military Science—First Year.** Fall quarter. Three hours per week. One credit.

Instruction during this period will include infantry and artillery drill; ceremonies; military courtesy and discipline; military policy; rifle marksmanship.

Goodrich and Pitzer

2. **Military Science—First Year.** Winter quarter. Three hours per week. One credit.

Instruction during this period will include infantry and artillery drill; Coast Artillery instruction (second class subjects).

Goodrich and Pitzer

3. **Military Science—First Year.** Spring quarter. Three hours per week. One credit.

Instruction during this period will include infantry and artillery drill; ceremonies, inspection, military hygiene and first aid; Coast Artillery instruction (second class subjects).

Waller and Goodrich

4. **Military Science—Second Year.** Fall quarter. Three hours per week. One credit.

Instruction during this period will include drill and command (infantry and artillery): Ceremonies, coast artillery instruction (first class subjects).

Waller

5. **Military Science**—Second Year. Winter quarter. Three hours per week. One credit.

Waller

Instruction during this period will include drill and command (infantry and artillery); Coast Artillery instruction (first class subjects).

6. **Military Science**—Second Year. Spring quarter. Three hours per week. One credit.

Pitzer

Instruction during this period will include drill and command (infantry and artillery); ceremonies; inspections; Coast Artillery instruction (first class subjects).

R. O. T. C. BAND COURSES

1B, 2B, 3B. **R. O. T. C. Band**—First Year. One credit per quarter.

Goodrich

4B, 5B, 6B. **R. O. T. C. Band**—Second Year. One credit per quarter.

Goodrich

ADVANCED COURSES

101. **Military Science**—First Year. Fall quarter. Five hours per week. Three credits.

Instruction during this period will include military map reading and sketching; drill and command; drill regulations and Coast Artillery instruction (expert subjects).

Goodrich

102. **Military Science**—First Year. Winter quarter. Five hours per week. Three credits.

Instruction during this period will include drill and command; gunnery; Coast Artillery instruction (expert subjects).

Pitzer

103. **Military Science**—First Year. Spring quarter. Five hours per week. Three credits.

Instruction during this period will include drill and command; gunnery; conduct of fire; analysis of drill and service practice.

Pitzer

104. **Military Science**—Second Year. Fall quarter. Five hours per week. Three credits.

Instruction during this period will include drill and command; artillery material; military law; administration and supply.

Pitzer

105. **Military Science**—Second Year. Winter quarter. Five hours per week. Three credits.

Instruction during this period will include drill and command; motor transportation; military history; artillery tactics.

Goodrich

106. **Military Science**—Second Year. Spring quarter. Five hours per week. Three credits.

Instruction during this period will include drill and command; field engineering; orientation.

Goodrich

Instruction during this period will include drill and command; field engineering; orientation.

Instruction during this period will include drill and command; field engineering; orientation.

Instruction during this period will include drill and command; field engineering; orientation.

Instruction during this period will include drill and command; field engineering; orientation.

Instruction during this period will include drill and command; field engineering; orientation.

HOME ECONOMICS

CHRISTINE B. CLAYTON, JOHANNA MOEN, Professors;
CHARLOTTE DANCY, ELSA B. BATE, FRANCES KELLY, Assistant
Professors; ALTA ORSER CROCKETT and EFFIE BARROWS,
Instructors.

GENERAL AND SERVICE COURSES

(Recommended for all students in the College)

HE 1. **Elementary Clothing**—A service course for students from other schools of the college. Emphasis on the relation of personality to dress through the study of art principles applied to clothing construction. Pattern study. Selection and construction of underclothing and dresses. Lectures and laboratory work. Fall or Spring quarter. Three credits.

Crockett and Moen

HE 5. **Principles of Nutrition (Foods 5)**—A practical study of the relation of food to health. Natural food groups and their relation to each other are studied through the selection of foods. Open to men and women in all schools of the college. Two credits. (Not offered 1933-34.)

Clayton

HE 9. **Meal Preparation and Serving**—This course is designed to give practical training in the preparation and serving of meals for men and women from any department except Foods. Fall quarter. Three credits.

Kelly

HE 10. **Survey in Home Economics**—Deals with the orientation of the student to her college environment and the guidance of the student in her choice of the field of Home Economics for her profession. Open to all college women. Fall or Winter quarter. One credit.

Moen and Crockett

HE 15. **Clothing Appreciation and Selection (for men)**—This course is organized to meet the needs of men from all schools of the college. A study of the importance of dress in the business world; development of fabric and fashion in men's clothing; a brief study of wool, silk, cotton and rayon fibers with emphasis on hygienic and economic factors. Fall quarter. Two credits.

Crockett

HE 25. Care of the Sick—A course in home nursing and first aid to the injured. The first hour is devoted to discussion, the laboratory to demonstrations and practice. Reading of reference material and writing of special reports required. Laboratory apron needed, see instructor. Fall, Winter or Spring. Two credits. Class limited to 18.

Dancy

HE 125. Mothercraft (CD 125)—This course includes a study of the anatomy and physiology of the reproductive system, preparation for motherhood, and the physical care of mother and child from the prenatal period to the end of the first year of the child's life. Prerequisite, Physiology 4. Fall, Winter or Spring quarter. Three credits.

Dancy

HE 149. Household Management—An application of the principles of scientific management in the home, giving special emphasis in the phases of managerial ability, the use of time, and energy, selection, operation, arrangement and care of household equipment, management of the family, together with family and community relationships. Fall quarter. Four credits.

Kelly

CHILD DEVELOPMENT AND PARENTAL EDUCATION

Students who elect Child Development and Parental Education as their major are required to complete the following courses: Child Development 35, 55, 103, 104, 110, 125, 135, 140 and 190. Selections to complete their major may be made from the other courses listed, according to the needs and interests of the student.

13. Children's Literature—Introduction to the prose and poetry of childhood and adolescence. A dollar and a half library fee is required. The course should be helpful to teachers. Fall quarter. Three credits.

Pedersen

34. Art for Young Children—Designed to meet the needs of child development specialists, mothers in the home, and kindergarten teachers. Simple handiwork, color, design, and drawing expression will be considered as an educational and recreational activity in the life of the child. Winter quarter. Two credits.

Fletcher

35. Nutritional Growth and Development—A study of the growth and development of infants and children from infancy to school age are considered together with problems in child feeding. Prerequisite, physiology. Lecture course with field trips. Fall quarter. Three credits. (Lab. for this course is Foods 36.)

Clayton

36. Meal Preparation for Preschool Children—A laboratory course in menu planning and in the preparation and serving of foods for preschool children. Fall and spring quarters. Two credits.

Clayton

38. Music for Young Children—A study of music appreciation for little children, chiefly through participation in song singing and bodily response to various rhythms. The procedure of rote song teaching, the careful selection of song material, other music for listening lessons, and care of the child voice. Fall quarter. Two hours credit. Hours to be arranged.

Welti

50. Environmental Factors of Child Life—Home conditions are dealt with briefly in this course in natural and adopted homes. The principal emphasis is on community influences and pressures which assist in the development of the personality. Field trips will supplement lectures as a means of coming into contact with societies, organized agencies, and institutions. Spring quarter. Three credits.

Geddes

55. Children's Clothing—A study of styles, material and decoration suitable for different ages of children. Construction emphasizing comfort, beauty, convenience and self-help for the rapidly growing child. Prerequisites, Clothing 10, 11 and 50, or 20. Spring quarter. Two credits.

Moen

103. Psychology of Adolescence—Open to students who have had Psychology 101 or equivalent. A study of the behavior of adolescents. Spring quarter. Three credits.

Peterson

104. Psychology of Family Life—Human mating; marriage and its meaning; harmony in marriage and its psychological basis; the behavior of infants and children in the various stages of growth; hereditary and environmental factors of personality and character development. This is a general course adapted to the needs of all young people. Prerequisite, a course in general psychology. Sophomores may enter by permission of instructor. Winter quarter. Three credits.

Peterson

110. Psychology of Infancy and Early Childhood—Prerequisite, Psychology 3 or equivalent. A study of the behavior of infants and small children. Spring quarter. Three credits.

Peterson

111. **Heredity and Eugenics**—A non-technical study of the more evident behavior of the germ cells in reproduction and the simpler principles underlying the inheritance of traits. Consideration is given to the eugenic value of human races, inferior and superior families, sexual selection and marriage, birthrate, immigration and other principles having eugenic significance. Fall and Winter quarters. Three lectures. Three credits.

Henderson

112. **Principles of Genetics**—A technical study of the cytological and experimental bases underlying heredity and variation. This course is a fundamental requirement for all students of plant breeding, animal breeding or human heredity. It considers qualitative and quantitative traits, factor independence, interaction, linkage relations, gene and somatic mutations, sex determination and modification and related subjects. Students taking this course must have had course 111 or some good general course in Biology. Graduate credit allowed. Spring quarter. Five lectures. Five credits.

Henderson

125. **Mothercraft**—This course includes a study of the anatomy and physiology of the reproductive system, preparation for motherhood, and the physical care of mother and child from the prenatal period to the end of the first year of the child's life. Prerequisite, Physiology. Fall, Winter or Spring quarter. Three credits.

Dancy

135. **Child Care and Training**—This course is planned for senior women desiring special work in child care and training and for high school teachers wishing to incorporate units in child development in their home economics courses. The laboratory work will be given in a well equipped nursery school housed in the Home Economics Building. Prerequisites, Psychology 3, 101, or 110. Lab. to be arranged. Fall, Winter or Spring quarter. Five credits.

Bate

140. **Special Problems in Child Development**—An opportunity for students to obtain further experience in managing children in the nursery school, or to work out a problem in child development in which they are particularly interested. Hours to be arranged. Fall, Winter or Spring quarter. One to three credits.

Bate

170. **Juvenile Delinquency**—A study of juvenile offenders. The causes of delinquency are considered with the purpose of arriving at intelligent remedies. Various methods of home, social, and institutional treatment are studied; parental cooperation, personal supervision allied with probation and parole, institutional treatment, etc. Winter quarter. (Not given 1933-34.)

Hendricks

171. **Social Problems of the Family**—In this course the relations of the family with outside groups, agencies, and institutions are stressed. Attention is also paid to the inter-relation between the different members of the family. Home life is treated as a changing, developing, basic organization which should be in constant reciprocal relation with outside agencies. Fall or Spring quarter. Three credits.

Hendricks

190. **Child Development Seminar**—Winter quarter. Two credits.

Bate

FOODS AND NUTRITION

Students who elect Foods and Nutrition as their major are required to complete the following courses: Foods 20, 21, 30, 35, 36, 106, 140, and 141. Foods 105, 107, and 192 are recommended for all majors in this department. Biochemistry is recommended as a closely related subject to be taken in the junior or senior year.

5. **Principles of Nutrition**—A practical study of the relation of food to physical fitness. Open to men and women from any department except foods. Winter quarter. Two credits. (Not given in 1933-34.)

Clayton and Kelly

9. **Meal Preparation and Serving**—This course is designed to give practical training in the preparation and serving of meals for men and women from any department except Foods. Fall quarter. Three credits.

Kelly

20, 21. **Food Study and Meal Preparation**—A study of the food classes and the scientific principles underlying their preparation. Meal planning and serving is included in this course. Limited to Smith-Hughes' and Foods' majors. One section of Foods 20 given in both Fall and Winter quarters. Five credits each quarter. Three lectures and two laboratory periods.

Kelly

30. **Food Economics**—This course aims to train the student to become an intelligent consumer of food products. A study of brands, grades, and qualities of products is made through class work, projects, and field trips. Prerequisite, General Economics. Three lectures and one laboratory period. Spring quarter. Four credits.

Kelly

35. Nutritional Growth and Development of Children—A study of the growth and development of infants and children as influenced by nutrition. The food requirements of children from infancy to school age are considered together with problems in child feeding. Prerequisite, Physiology. Lecture course with field trips. Fall quarter. Three credits. (Laboratory for this course is Foods 36.)

Clayton

36. Meal Preparation for Pre-School Children—A laboratory course in menu planning and in the preparation and serving of foods for pre-school children. Fall or Spring quarter. Two credits.

Clayton and Kelly

105. Food Preservation—A laboratory course in modern methods of preserving foods by canning, preserving, pickling and storage. Prerequisites, Food Study, Food Economics, and Bacteriology 1. Fall quarter. Three credits.

Clayton

106. Food Engineering—This course includes laboratory practice in the most efficient methods of preparing and serving meals at a minimum cost of money, time, and energy. Designed as a preparation for residence in the cottage. Prerequisites, Food Study and Food Economics. Winter quarter. Three credits.

Clayton

150. Residence in Home Economics Cottage—This course affords an opportunity for senior and graduate women to live in the cottage, for a period of twelve weeks (one quarter), to assume the responsibilities involved in managing a home. Prerequisite or parallel, HE-149. Fall, Winter or Spring quarter. Five credits. To be arranged.

Kelly

141. Advanced Nutrition—This course includes the study of dietotherapy with the application of the principles of dietetics to the nutritional diseases of man. Prerequisite, Dietetics. Winter quarter. Four credits.

Clayton

160. Problems in Nutrition or in Advanced Cookery—Individual or group problems are selected as a result of suggestions from preceding courses. Open only to advanced students. Fall, Winter or Spring quarter. Hours and credit to be arranged.

Clayton and Kelly

192 and 292. **Readings in Nutrition**—Introduction to research in nutrition through assigned readings of current literature. Spring quarter. Two consecutive hours once per week. Two credits.

Clayton

210. **Research**—Intensive investigation of problems concerned with nutrition or food composition. Time and credit to be arranged.

Clayton

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, 115, 105, 125, 160. Closely related courses such as Art 1, 2, 3, 17, and 32, Chemistry 109, Textiles Chemistry are recommended for Textiles and Clothing majors. Students who wish to prepare for positions in the commercial field should in addition to courses in Textiles and Clothing and Art elect courses in Economics and Merchandising.

1. **Elementary Clothing**—A service course for students from other schools of the college. Emphasis on the relation of personality to dress through the study of art principles applied to clothing construction, pattern study, selection and construction of underclothing and dresses. Lectures and laboratory work. Fall quarter. Repeated Spring quarter. Three credits.

Moen and Crockett

5. **Clothing Appreciation**—This course aims to develop appreciation of appropriateness, good color and design in dress. Clothing Economics and Clothing Hygiene will also be discussed. Selection and care is emphasized. Spring quarter. Two credits.

Crockett

10, 11. **Clothing Selection and Construction**—A study of the fundamental principles of pattern making, design, selection and construction of wool, silk, and cotton dresses. Outside work required. Prerequisites, Art 1, 2, 3. Lectures and laboratory work. Fall, Winter and Spring quarters. Three credits each quarter.

Crockett and Moen

15. **Clothing Appreciation and Selection. (For Men.)**—This course is organized to meet the needs of men from all schools of the College. A study of the importance of dress in the business world; development of fabric and fashion in men's clothing; a brief study of wool, silk, cotton and rayon fibers with emphasis on hygienic and economic factors. Fall quarter. Two credits.

Crockett

20. **Household Textiles**—A study of standard textiles from the standpoint of growth, structure, preparation, design and relative value of materials for clothing and house furnishing. The aim of this course is to form a basis for intelligent purchase and use of materials. Prerequisite or parallel, Economics 50. Fall quarter. Five credits.

Moen

30. **Millinery**—Special study of individual problems in selection of hats; blocking felt and straw hats; designing in paper. Application of principles of making fabric hats; flower making. Prerequisites or parallel courses, Art 1, 2, 3; Textiles 10, 11 or their equivalents. Spring quarter. Three credits.

Crockett

50. **Textile Selection**—Judgment in selection and purchasing of textiles in relation to design, quality and cost as affected by economic and social factors. Elective to students other than Textile majors. Winter quarter. Three credits.

Crockett

55. **Children's Clothing**—A study of styles, material and decoration suitable for different ages of children. Construction emphasizing comfort, beauty, convenience, and self-help for the rapidly-growing child. Prerequisites, Clothing 10, 11, and 50, or 20. Winter quarter. Two credits.

Moen

105. **History of Costume**—A survey of ancient Egyptian, Grecian, Roman, early and modern French costumes. It aims to give practical information for the use of students and teachers of Clothing and Costume Design and Physical Education majors. Fall quarter. Three credits.

Moen

115. **Costume Design**—Art structure in its application to dress. Studies of personality and types of people; harmonies in spacing, rhythm, balance, color theory. Designing for various occasions. Outside work required. Prerequisites, Art 1, 2, 3. Winter quarter. Three credits.

Crockett

125. **Applied Costume Design**—Practical training in the application of the principles of costume design, color harmony, texture, for different individuals and purposes. Practice in constructive design is given by modeling in cloth on the dress form. Outside work required. Spring quarter. Three credits.

Crockett

140. **Applied Decoration**—A study of principles of design in relation to decoration of dress and household furnishings. Various means will be used in developing simple decorations for all types of garments and household furnishings. Outside work required. Prerequisites, Art 1, 2, 3, and Textiles 10, 11. Spring quarter. Three credits.

Moen

160, 161, 162. **Advanced Problems in Clothing**—Special application of principles of design and construction to tailored garments, afternoon and evening dresses. Demonstrations and laboratory work. Prerequisites, Textiles and Clothing 10, 11, 20, 21, 105, 115, 125. Fall, Winter and Spring quarters. Two credits each quarter.

Moen

190. **Special Problems**—Arranged for advanced students in Textiles and Clothing. Working out problems of special interest; readings and reports. Spring quarter. Time and credit to be arranged.

Moen

For closely related courses see:

Economics 145—Economics of Consumption. Personal Finance and Budgeting.

Accounting 107—Household Accounts.

Art 122—Home Planning Construction and Design.

Art 123—Interior Decoration.

Art 126—History and Appreciation of Architecture.

Sociology 61—Women and Culture.

Sociology 140—Social Psychology.

Sociology 171—Social Problems of the Family.

**THIRTY-NINTH ANNUAL
COMMENCEMENT**

List of Graduates 1931-32

GRADUATE DIVISION

**Graduates with the Degree of
MASTER OF SCIENCE**

School of Agriculture

CLARENCE BURNHAM

B. S., U. S. A. C., 1929

Thesis: "A Study of Different Methods of Applying Ammonium Sulphate Alone and in a Complete Fertilizer."

GAJINDAR SINGH GILL

Diploma of "Licentiate in Agriculture"
from

Punjab Agricultural College

Thesis: "Seed as a Factor in the Production of Vegetable Crops."

WESLEY KELLER

B. S., U. S. A. C., 1929

Thesis: "A Study of the Effect of Curly-top on Yield and other Characteristics of Sugar Beets."

DOUGLAS T. MURDOCK

B. S., U. S. A. C., 1926

Thesis: "A Study of Crop or Cutting as a Factor in the Determination of the Feeding Value of Alfalfa Hay."

LeMOYNE WILSON

B. S., U. S. A. C., 1927

Thesis: "Fertilizer Experiments as Conducted on Muck Soil in Sanpete County, Utah."

IRA DELOSS ZOBELL

B. S., U. S. A. C., 1928

Thesis: "Fertilizer Studies as Conducted on the Carbon County Experiment Farm with Special Reference to Treble-Superphosphate."

School of Home Economics

MARTHA EAGER
B. S., U. S. A. C., 1924

Thesis: "A Study of the Diet and Health Status of Fifty Children in San Juan County."

ZILLA LINFORD RICHARDS
B. S., U. S. A. C., 1929

Thesis: "A Study of the Cyclic Variation in the Basal Metabolic Rate of Women."

School of Arts and Science

E LEMUEL FLOYD CLARKE *Newton*
B. S., U. S. A. C., 1927

Thesis: "The Tarnished Plant Bug in Relation to Alfalfa Seed Production."

ORVILLE L. ELIASSEN
B. S., U. S. A. C., 1931

Thesis: "The Design of a Multiple Intake Drainage Well."

DAVID HOMER
B. S., U. S. A. C., 1931

Thesis: "The Theory of Water-Logging of Agricultural Land."

FAYE YEAMAN MOSER
B. S., U. S. A. C., 1928

Thesis: "The Nutritive Value of Irrigated As Compared with Dry Farm Wheats."

DELMAR H. WEBB
B. S., U. S. A. C., 1930

Thesis: "Effect of the Replaceable Sodium and Calcium on Index of Friability of Soil."

School of Engineering

ARTHUR FIFE
B. S., U. S. A. C., 1919

Thesis: "The Hydraulics of Wells."

School of Commerce

MURCY E. NELSON
B. S., B. Y. U., 1931

Thesis: "Social Welfare Work in Cache County."

JOSEPH N. SYMONS
B. S., U. S. A. C., 1927

Thesis: "Some Appraisements of Institutionalized Treatment of Juvenile Delinquents in Utah."

School of Education

ELMER JEPPSON

B. S., U. S. A. C., 1929

Thesis: "Fire Insurance of School Buildings in Utah."

WILFORD PRICE

B. S., U. S. A. C., 1932

Thesis: "The Construction of a Standard Health Program for a Rural School with its Application to Cache County."

HENRY WARREN TAYLOR

B. S., U. S. A. C., 1925

Thesis: "A Study of Unit Costs in High School Subjects."

UNDERGRADUATE DIVISION

Graduates with the Degree of Bachelor of Science

School of Agriculture and Forestry

Agriculture

Bergeson, Rulon C.
Blanchard, Archie H.
Briggs, John Victor
Coletti, Anthony
Cox, Donald M.
Evans, David
Fagerlund, Gunner O.
Frandsen, Waldo R.
Gerber, Robert King
Godfrey, Arthur James
Grace, Paul Evans
Harris, Joseph W.
Howell, Ferne S.
Hoyt, Elmo R.
Linebaugh, Glade C.
Marble, LaRain
Miller, LaRue
Neff, Steven B.

Norton, Howard J.
Pixton, Roscoe T.
Pollard, Leonard Heber
Rice, Vernon
Richards, Mathias Cowley
Ricks, O. Frank
Roundy, Zola Doyle
Shelton, Joe W.
Stevens, D. Garn
Stevens, Guy Partridge
Stoker, Golden Lyman
Tolman, Bion
Watkins, Delos
Weston, Milton Barker
Winkler, Orval E.
Wursten, John Luther
Yates, LaRue C.
Yates, Thomas H.

Forestry

DeSpain, Owen M.
Earl, Dean Martin
Jacobs, James L.

Julander, Odell
Schott, James Dale
Steed, Alvin Vernon

School of Home Economics

Ashton, Ethelynne
Barlow, Irene Smith
Barrows, Effie E.
Bartlett, Zelda
Burch, Fern
Buxton, Winona
Cherrington, Captola
Christensen, Sybil Camille
Devine, Julia Etta
Flint, Maurine
Gibbons, Vera LaThel
Hubbard, Harriet
Jennings, Lydia

Knott, Frances E.
Loosli, Adrienne
Merrill, Alice
Merrill, Ardella H.
Miller, Ruth Carolyn
Remund, Grace
Smith, Edna
Sowards, Mary Hazel
Starr, Grace
Taggart, Beulah
Tervort, Evva
Todd, Ansta

School of Arts and Science

Andersen, Ariel A.
Anderson, George W.
Anderson, Marion
Bair, Camilla
Berrells, Laura Katherine
Blain, Rulon L.
Burrup, Percy E.
Christensen, Cornell
Cordon, Theone C.
Cox, Ruth
Cragun, Oralie K.
Farr, Doris
Funk, Edith
Geddes, Helen
Gibbons, A. H.
Griffin, John Marcus
Hammond, Datus Miller
Hart, Flora
Hickman, Iola
Hoffmann, Olif Darrell
Hussey, Marian Ione

Janes, Ray L.
Jenkins, Joseph David
Jensen, LuDeen
Lillywhite, Herold S.
Monson, Franklin D.
Page, Ferne
Parkinson, Ernest W.
Peterson, Elwin H.
Phillips, Erma
Poulsen, Alton B.
Price, Lessie
Reeder, Evelyn
Reeder, Wendell
Rosengreen, Ira T.
Ross, Roy
Stallings, Howard J.
Stevens, Hazel J.
Swinyard, Ewart A.
Thomas, Howard B.
Thomas, Wylie L.

School of Engineering**Civil Engineering**

Almond, James Clayton
Cannon, Julian S.
Cannon, Winfield Quayle
Gyllenskog, John Grant

Hill, Archie K.
Johnson, Lloyd R.
Lawrence, George Andrew
Milligan, Cleve Henry

Mechanic Arts

Best, Richard S. Frandsen, Kenneth S.
Fugal, Delbert J.

School of Commerce

Bergeson, E. C.	Morby, James M.
Carlson, Alvin G.	Morton, Thomas Wells
Darley, Farrell B.	Neuberger, Laurence Mark
Dibble, J. R.	Phillips, Fred L.
Dittmore, Marlin Lewis	Picot, George F.
Fillmore, A. James	Redford, Marion Dewsnup
Gillespie, Kenneth W.	Rees, Doyle
Hadfield, Robert Wilding	Reese, Dariel E.
Hawkes, Frank Jones	Roskelley, Richard Welling
Holman, Grant A.	Smith, Charles Elmo
Jenson, E. Claud, Jr.	Smith, Ivan D.
Jessop, Howard V.	Teuscher, Alvin J.
Johnson, Annie H.	Thompson, Jesse Loosli
Jones, Clarence A.	West, Allan Morrell
McEntire, Weldon Davis	Wright, W. Adrian

School of Education

Abbott, Geo. Emerson	Parker, Laura Lee Nebeker
Anderson, Jessie	Price, Wilford
Anderson, John M.	Richins, Dallas
Bateman, Relva McMullin	Rigby, Lucile
Belliston, Carl F.	Sanford, Dorothy Elaine
Boudrero, Blanche	Stuart, Carl G.
Burgoyne, Lucile	Thompson, Odell S.
Hawkes, Selma	Tippets, Hugh Maxwell
Howard, Beatrice W.	White, June H.
Lowe, Jennie	Williams, Beatrice
Lunt, Lois	Wilson, Verla
Monson, Margaret	Young, Clarice
Neeley, Deta Petersen	

OFFICERS RESERVE CORPS OF THE ARMY OF THE UNITED STATES

Second Lieutenant, Coast Artillery Corps

Belliston, Carl F.	Rees, Doyle
Grace, Paul Evans	Stoker, Golden Lyman
Neuberger, Laurence Mark	

GRADUATES WITH THE NORMAL CERTIFICATE

Adams, Ethel S.	Jorgensen, EllVon
Allen, Ethel May	King, Bernice
Allen, Pearl	Longhurst, Eddis
Anderson, Clarice Vilda	Luthy, Telesile Kay
Andersen, Irving E.	Maughan, Lois Evelyn
Bird, Bedford W.	Mickelsen, Sigrid
Black, Jesse Ray	Morris, Muriel
Broberg, Ilah Katherine	Nielsen, Ruth Mae
Brown, Beth	Nyman, Marietta
Bryson, Ethel	Owen, Ethel Luinna
Burleigh, Alice Lee	Packer, Lera
Clawson, Joyce	Palmer, Elva
Cook, LaRue	Paskett, Marguerite
Corbett, Berniece Ruth	Perkins, LaVon
Davis, LeRene	Perry, Josephine
Dunkley, Addie L.	Petersen, Marene
Ellis, Effie	Pond, Althea
Everton, Bessie	Poulsen, Tilda
Fisher, Alice Marguerite	Probst, Leah
Follett, Ann	Rohwer, Leone
Godfrey, Corinne	Shunway, Fredone
Hanson, Melba	Smith, Irene
Hansen, Mourine Andersen	Smith, Norma
Harris, Wayne	Spongberg, Ruth
Jensen, Ethel	Stocks, K. W.
Jensen, Gertrude	Taylor, Helen Lucile
Jensen, Joy	Ward, Elmoyne V.
Jensen, Reta	Wheatley, LaReen
Jensen, Wanda	Whitaker, Bruce Giraud
Jessop, Gladys	White, Doril
Jones, Louise	Winkler, Ella

FORTIETH ANNUAL COMMENCEMENT

List of Graduates 1932-33

GRADUATE DIVISION

Graduates with the Degree of

MASTER OF SCIENCE

School of Agriculture

AUGUSTA FLAKE

B. S., Brigham Young University, 1925

Thesis: "Floral Morphology and Cytology of the Tomato Plant Infected with Curly Top."

FRANK LESLIE JACKSON

B. S., U. S. A. C., 1931

Thesis: "The Effect of Fermentation of Tomato Pulp under Various Conditions upon the Canker Organism, *Aplanobacter michiganense* E. F. S., and upon Tomato Seed Germination."

DEAN F. McALISTER

B. S., U. S. A. C., 1931

Thesis: "The Relative Effects of Various Chemical and Cultural Treatments on the Root Reserves in White Top."

ZOLA DOYLE ROUNDY

B. S., U. S. A. C., 1932

Thesis: "Pasteurized Versus Raw Milk in Brick Cheese-Making."

SETH T. SHAW

B. S., U. S. A. C., 1931

Thesis: "Effects of Storage Temperatures, and the Wounding of Bulbs on the Seeding Habit of the Onion (*Allium cepa*)."

GOLDEN L. STOKER

B. S., U. S. A. C., 1932

Thesis: "The Effect of Different Methods of Handling Chicken Manure on the Viability of Weed Seeds."

BION TOLMAN

B. S., U. S. A. C., 1932

Thesis: "Inheritance of Resistance to Loose Smut (*U. tritici*) in Certain Wheat Crosses."

GEORGE WHORNHAM

B. S., U. S. A. C., 1924

Thesis: "Alfalfa Seed Production as Related to Soil Type, Millard County, Utah."

School of Home Economics

ALBERTINE APPY NOECKER

B. S., Iowa State College, 1931

Thesis: "A Survey of the Literature Dealing with the Calcium-Phosphorus Metabolism of Normal Children."

ELEONORA JENNIE TASSO

B. S., U. S. A. C., 1931

Thesis: "A Dietetic Analysis of the Nursery School Diets at the Utah State Agricultural College."

School of Arts and Science

CLARK B. AFFLECK

B. S., U. S. A. C., 1930

Thesis: "Application of the Theory of Probability to the Size Distribution of Soil Aggregates."

E ✓ MELVIN JOSEPH JANES *Providence*

B. S., U. S. A. C., 1931

Thesis: "A Study of Jointworm Fly Parasitism in Utah Wheat."

Z ✓ ERNEST W. PARKINSON *Willsville*

B. S., U. S. A. C., 1932

Thesis: "Bird Studies of the Bear River Marshes."

J. DARREL PETERSON

B. S., U. S. A. C., 1931

Thesis: "A study of the Effect of Sodium and Potassium Chlorides upon the Replaceable Bases in Soils."

DeWITT C. SMITH

B. S., U. S. A. C., 1930

Thesis: "Activities of Sodium Potassium, Calcium and Magnesium in Dilute Solutions, Calculated from Potential Measurements with the Sodium Amalgam Electrode."

J. MAGNUS STEVENS

B. S., U. S. A. C., 1931

Thesis: "A study of Mammals of Logan, Utah, and Vicinity, with Special Reference to Six Genera of Rodents."

School of Commerce

FRANK CHRISTOPHER JENSEN

A. B., University of Utah, 1932

Thesis: "A Study of Costs of Trucking Certain Agricultural Commodities in Utah, 1932."

WILLARD ABNER LARSON

B. S., U. S. A. C., 1928

Thesis: "Aims and Activities of Utah Taxpayers' Association."

KENETH A. MOSER

B. S., U. S. A. C., 1933

Thesis: "The Beet-Sugar Industry and the Tariff with Special Reference to the Great Basin."

RICHARD WELLING ROSKELLEY

B. S., U. S. A. C., 1932

Thesis: "The L. D. S. Missionary System in a Local Area: A study of Some Social and Economic Aspects of 142 Converts and 130 L. D. S. Missionaries now Residing in Certain Towns in Cache Valley."

LIONEL WILMOT THATCHER

B. S., U. S. A. C., 1926

Thesis: "Economic Bases for Differences of Telephone Rates as Between Different Localities."

School of Education

A. H. GIBBONS

B. S., U. S. A. C., 1932

Thesis: "A Study of the Status and Trends of Utah County Districts as Indicated by Index Numbers."

FLORA HART

B. S., U. S. A. C., 1932

Thesis: "An Examination of Certain Contemporary Children's Literature Books to Show the Utilization of Some Phases of Modern Psychology."

HYRUM PARLEY KILBURN

B. S., U. S. A. C., 1931

Thesis: "An Analysis of American History Texts in the Eighth Grade and an Evaluation of Content or Materials of Current Eighth Grade History Texts According to the Objectives Set up by the American Historical Association."

REUBEN DEEM LAW

B. S., U. S. A. C., 1928

Thesis: "Personnel Records of Teachers; A Survey of Present Practice and a Proposed Set of Forms for More Adequate Personnel Record Keeping."

LEAH DUDLEY MERRILL

B. S., U. S. A. C., 1927

Thesis: "A Study of the Reading Habits of U. S. A. C. Freshmen and Senior Students."

DETA PETERSEN NEELEY

B. S., U. S. A. C., 1932

Thesis: "A Study of the Evaluation of Utah Supervisory Practices with Theories."

FLORENCE JENNIE NIELSEN

B. S., U. S. A. C., 1927

Thesis: "A Study of Relationships of the English of Sophomore English Themes to that of Papers Written for other Subjects."

DEAN FREEMAN PETERSON

B. S., U. S. A. C., 1910

Thesis: "Certain Factors of Mortality from College as Determined by a Study of the 1925 Freshman Class at the Utah State Agriculture College and Replacements as Determined by an Analysis of the 1929 Graduating Class."

EVANS J. PHILLIPS

B. S., Brigham Young University, 1929

Thesis: "A Self-Survey Check List and Standards for the Administration of the Junior High School."

LESSIE WRIGHT PRICE

B. S., U. S. A. C., 1932

Thesis: "An Analysis of the Literary Content of the English Courses of the Senior High School as Revealed by Certain Representative Literature Textbooks Designed for Grades X, XI, and XII."

UNDERGRADUATE DIVISION

GRADUATES WITH THE DEGREE OF BACHELOR OF SCIENCE

School of Agriculture and Forestry

Agriculture

Barnard, John J.	Petersen, Francis M.
Binns, John A.	Plumb, Alma J.
Burton, Edward Boyd	Reynolds, Edwin Alvin
Clark, DeVon M.	Reynolds, Elwin Warren
Cook, Merrill E.	Richards, Margaret Iva
Freeman, Wilford	Riley, Clifford Winston
Hale, Clarence	Rollins, Dell J.
Harmon, George Willard	Sant, Paul T.
Hill, Mark Eugene	Somera, Macario S.
Johnson, Dean V.	Spencer, George Elwood
Larson, Frank William	Starr, Warren A.
Lowe, Wayne H.	Stock, Orville Edwin
Marksheffel, Ned D.	Taggart, Nat. M.
McQuarrie, Harlow Brooks	Thomas, Clyde L.
Norris, Dwain W.	Walters, Jesse R.
Parkinson, Seth Maughan	Whiting, Fred A.
Parrish, Joseph F.	Whitlock, George Cleon

Forestry

Astle, Walter Shaw	Michaels, Charles C.
Fonnesbeck, Frank O.	Thornock, Clarence S.
Johnson, Wallace Maughan	

School of Home Economics

Burke, Lavera Leigh	Kirkham, Phyllis Margaret
Cardon, Dorothy	Nelson, Helen Marr
Chattin, Helen E.	Newey, Margaret Edith
Clayton, Ruth Carol	Peterson, Marian
Crafts, Mary Elizabeth	ShIPLEY, Fern
Crossley, Ila	Spongberg, Mary S.
Fillmore, Beth Merrill	Stevens, Afton
Greaves, Pernecy D.	Thomson, Joyce Maurine
Guymon, Valera	Todd, Alice Josephine
Hill, Cornella	Walker, Afton Harriet
Ingersol, Loraine Boley	Wardell, Irma
Johnson, Gertie Afton	White, Lois Crosby
Kearsley, Amy Ruth	

School of Engineering

Civil Engineering

Bargeron, Cecil Gordon	Larson, Everett Harmon
Bohman, Stanley J.	Larson, Howard Drew
Burnham, Lyman Pitkin	Petersen, Howard Eugene
Chugg, Grant Ezra	Rich, Lowell Redd
Harris, LaPhene	Rippon, Frank Elvin
Jennings, Robert Webb	

Mechanic Arts

Alexander, Glen M.	Heggie, Andrew Loosle
Bohne, E. F.	Nelson, Karl Giles
Bowen, Ronald George	Walters, F. LeRoy
Cooley, Chas B.	Weston, Rulon John

School of Arts and Science

Anderson, Gladys Berneice	Nelson, Jesse Giles
Anderson, Jack	Nelson, Mary Henderson
Bailey, Fred B.	Nielson, Carl Perry
Baker, Arthella	Nielsen, Harold M.
Brown, H. Kenneth	Peters, Lila
Brown, Milton Thomas	Petersen, Irene
Cardon, Joan	Pierce, Myrtle Geneva
Carlisle, Verna Spencer	Pitzer, John H.
Clark, Clayton	Pocock, Marilyn
Collier, Theodore R.	Pulley, Boyd H.
Cooley, Maude	Rauzi, Ernest
✓ Cutler, Lowell	Ray, Nellie
Domgaard, Gwen	Richards, Sterling J.
Fletcher, Herbert Calvin	Ririe, Rebecca Marian
Frandsen, Linden E.	Schoenfeld, Walter Emil
Greene, Laura Clarissa	Smith, George Gibbs
Harris, Lloyd R.	Smith, Gwen Hobbs
Hart, Alfred B.	Stallings, Anne
Hayward, Joseph Clare	Stoffers, Frederick K.
Hayward Willis Howard	Thatcher, Theodore O.
Hepworth, Clarence Willis	Thorne, David Wynne
Jensen, Verba	Thornley, Melba Margaret
Kunz, W. Howard	Thorson, DeLoris
Linford, Jean Hulme	Tremelling, Veda Orle
Mason, Herschel Eugene	Vranes, John W.
Maughan, LeMoine B.	West, Ray Benedict, Jr.
Meacham, James Arthur	Whitaker, Bruce Giraud
Morrell, William Egbert	

School of Commerce

Allen, Pollie LaRena	Larsen, LeMar
Anderson, Anthon Edward, Jr.	Larsen, Paul B.
Anderson, Sylvester C.	Lee, Sabina L.
Bagley, Edward N.	Linford, LaRue H.
Beal, J. Ray	Lund Twilla
Cardon, Karma	Lunt, Loretta Clayton
Casterline, Leonard L.	Martineau, Jess Emerson
Chambers, Noble Langton	McMullin, Lucille
Church, Della	Moore, William G.
Crockett, Darrell Waldo	Morrison, Marriner Merrill
Cutler, Harold Harris	Moser, Kenneth A.
Duke, Vern V.	Nelson, Rasmus K.
Firmage, John Harold	Parrish, Barnard D.
Frost, Ray L.	Shephard, Joseph Edward
Gunnell, Winston R.	Sorensen, LuZelle
Gutke, Joseph Worth	Sparks, Don C.
Hunter, Webster B.	Sutton, David Wright
Jones, Ferris H.	Tarbet, Ione
Jorgensen, Clyde H.	Waldron, David R.
Jorgensen, Osmond O.	Westenskow, Fern
Judah, Mayme	Williams, Wesley L.
King, Helen Mildred	Woodland, Wm. Wesley
Larson, Ardis C.	

School of Education

Allsop, Warren G.	Neeley, Nathan Glen
Barker, William T.	Orme, W. Rollo
Berrett, Golden L.	Peterson, Lea H.
Carlson, Venice Lucile	Petty, Lois LaVeve
Christensen, Guy B.	Price, Florence
Cranney, Rie Garr	Reese, Ether N.
Egbert, Margaret	Shepherd, Ruth
Erickson, Esther Elizabeth	Singleton, Marie
Forgeon, Aland	Stanley, Lowell Earl
Gentry, LaVerne	Stout, Eunice Mae
Greene, Julia Martha	Swapp, Addie Little
Hancock, Victor Crockett	Torbensen, Eldon M.
Harshbarger, Vaughn	Whitehouse, Franklin
Hodges, Lynn J.	Wilson, Tyra
Jensen, David C.	Wiser, Ruth Nora
Larson, Jessie	Wixom, Earl P.
McBride, Claude D.	

OFFICERS RESERVE CORPS OF THE ARMY OF THE UNITED STATES

Second Lieutenant, Coast Artillery Corps

Bagley, Edward N.	Sant, Paul T.
Bowen, Ronald George	Schoenfeld, Walter Emil
Clark, Clayton	Starr, Warren A.
Gutke, Joseph Worth	Stock, Eldon
Jorgensen, Clyde H.	Thatcher, Lynn
McQuarrie, Harlow Brooks	Thatcher, Theodore O.
Meacham, James Arthur	Van Buren, Gordon
Nelson, Jesse Giles	Vranes, John
Phillips, Ben F.	Waldron, David R.
Pulley, Boyd H.	Woodward, Hyrum J.

GRADUATES WITH THE NORMAL CERTIFICATE

Adams, Leila M.	Nelson, LaPreal
Allen, Golden L.	Packer, Helen S.
Anderson, Alfred Jay	Poulter, Eloise
Barrus, Merle C.	Pugmire, Alice
Beagley, Deon	Pugmire, Helen
Bowen, Lucy	Rasmussen, Violet Stella
Burch, Bessie	Rex, Leland G.
Christensen, Loraine	Rich, Nada
Crane, K. Golda	Richards, Lorraine
Evans, Lucille	Robison, Birdie Isabella
Ford, Bertha	Rohner, Walter Paul
Hansen, Anna	Sanders, Vilate
Harris, Dorothy	Sant, Elizabeth T.
Harris, Lula	Schow, Rodney
Holmgren, Echo Marjorie	Shuldberg, Elva Mae
Humpherys, Adell	Singleton, Roma
Hunsaker, Lloyd R.	Stephenson, Anthony W.
Huntington, Stanley	Stevens, Lenore
Jensen, Elaine	Swainston, Wilma
Kendrick, Alda	Taylor, Venice
King, Betty	Thatcher, Roma
Kofoed, Ellen E.	Tolman, Inez Anita
Kofoed, Rilla O.	Tolman, Ralph Wheatley
Madsen, Grace	Watt, George D.
McMahon, Virginia E.	West, Lilla Fay
Metcalf, Beulah	Wilde, Erma
Nate, Ruth	Wursten, Karine
Nelson, Delma	

SUMMARY OF ATTENDANCE—1931-32

Rank	Agriculture Men	Agriculture Women	Arts & Sci. Men	Arts & Sci. Women	Commerce Men	Commerce Women	Education Men	Education Women	Engineering Men	Home. Ec. Women	Totals
Graduates	23		12	9	10	3	14	4	1	6	82
Seniors	45		32	22	31	5	9	11	20	26	201
Juniors	44	1	44	27	32	17	18	33	23	31	270
Sophomores	89		57	21	44	30	23	71	36	24	395
Freshmen	158		106	50	56	32	30	73	72	45	622
Total Collegiate	359	1	251	129	173	87	94	192	152	132	1570
Vocational	17		10	4	2	1		3	24	1	62
Totals	376	1	261	133	175	88	94	195	176	133	1632

Six-weeks Summer Session 1931—(193 Men, 177 Women)..... 370

Less: Names Repeated—(48 Men, 33 Women)..... 81

Net Total Residence Enrollment..... 1921

Corres. Dept. Enrollment—(215 Men, 177 Women)..... 392

Extension Classes—(74 Men, 98 Women)..... 172

564

2485

Names Repeated:

Correspondence and Extension—(8 Men, 6 Women)..... 14

Resident and non-res. Groups—(90 Men, 64 Women)..... 154

Less: Names Repeated—(98 Men, 70 Women)..... 168

Grand Total Enrollment..... 2317

ENCAMPMENT AND SHORT COURSES

Farmers' Encampment—(998 Men, 766 Women)..... 1764

In addition there were 151 children.

Club Leaders' Training School—(50 Men, 98 Women)..... 148

Adult Leaders' Training School—Women..... 60

Agents' Conference—(39 Men, 16 Women)..... 55

Total Registration at Encampment and Short Courses.... 2027

SUMMARY OF ATTENDANCE—1932-33

Rank	Agriculture Men	Agriculture Women	Arts & Sci. Men	Arts & Sci. Women	Commerce Men	Commerce Women	Education Men	Education Women	Engineering Men	Home Ec. Women	Totals
Graduates	33		18	8	9	3	13	7	2	6	99
Seniors	44	1	39	27	39	14	19	18	31	26	258
Juniors	63	1	57	27	39	14	18	21	22	20	282
Sophomores	87		81	24	54	23	21	68	36	35	429
Freshmen	98		115	71	51	34	24	71	46	56	566
Total Collegiate	325	2	310	157	192	88	95	185	137	143	1634
Vocational	7		5	1	6	5	1	1	13	2	41
Totals	332	2	315	158	198	93	96	186	150	145	1675

Six-weeks Summer Session 1932—(432 Men, 236 Women).... 668

2343

Less Names Repeated—(79 Men, 57 Women)..... 136

Net Total Resident Enrollment..... 2207

Corres. Dept. Enrollment—(166 Men, 103 Women)..... 269

Extension Classes—(73 Men, 75 Women)..... 148

2624

Names Repeated:

Correspondence and Extension (7 men, 2 Women)..... 9

Resident and Non-res. Groups (85 Men, 41 Women).... 126

135

Grand Total Enrollment..... 2489

EXTENSION SERVICE SHORT COURSES

4-H Club School (31 Men, 70 Women)..... 101

Adult Leaders School (59 Women, 7 Women Agents)..... 66

Agents' Conference (38 Men, 17 Women)..... 55

Live at Home Meetings..... 8393

Total..... 8615

HONORS 1931-32—1932-33

PHI KAPPA PHI

1931-32

Home Economics

Hazel Sowards
Etta Devine
Frances Knott
Alice Merrill
Lydia Jennings

Agriculture

Anthony Coletti
Robert Gerber
Odell Julander
Golden Stoker
Mathias Richards
Donald Cox
Howard J. Norton

Arthur Godfrey
Bion Tolman
George Whornham

Arts and Science

Doris Farr
Edith Funk
Datus Hammond
Flora Hart
Evelyn Reeder
Ray Janes
Cornell Christensen
Oralie Cragun

Education

Selma Hawkes
Lucile Burgoyne

Rela Bateman

Wilford Price

Lois Lunt

Dorothy Sanford

Engineering

Cleve Milligan
George Lawrence

Commerce

J. R. Dibble
E. C. Bergeson
Welling Roskelley
Alvin J. Teuscher
E. Claud Jenson
George Picot
Mark Neuberger

1932-33

Arts and Science

Bruce Whitaker
Wm. E. Morrell
Mary H. Nelson
Jessie Larson
D. Wynne Thorne
Irene Petersen
Alfred B. Hart

Engineering

Lowell Rich
Howard Larsen

Agriculture

Paul Sant
Walter S. Astle
Wallace M. Johnson
Merrill E. Cook

Home Economics

Amy Kearsley
Cornella Hill
Fern Shipley

Commerce

Vern V. Duke
H. H. Cutler
Ione Tarbet
Loretta Lunt

Education

Venice Carlson
Julia Greene
Marie Singleton

SCHOLARSHIP "A's"

1931-32

Arthella Baker
Venice Carlson
Maurine Christensen
J. Rex Dibble
Doris Farr
Delbert J. Fugal

Edith Funk
Eugene Gardner
Datus M. Hammond
Jessie Larson
Cleve Milligan
Ida Vee Monson
Lowell R. Rich

Mathias C. Richards
Fred G. Somers
Golden Stoker
Lynn M. Thatcher
Ross Tyson
Bruce G. Whitaker

1932-33

E. Milton Anderson
Loyal Irvin Anderson
Athleen Farr Budge
Harold H. Cutler
Vern V. Duke
Doris Farr
Eugene Gardner
Wanda LaRue Gerend

Alfred B. Hart
Flora Hart
Phillip J. Hart
Lynn W. Kloepfer
Mae Mackay
Milton A. Madsen
Deta P. Neeley
Ruth Petersen

George Piranian
Kermit Randall
Jesse W. Reeder
Lowell R. Rich
Oreta Rich
G. Fred Somers
C. William Taylor
Bruce G. Whitaker

VALEDICTORIANS

1931-32

Doris Farr

1932-33

Amy Kearsley

SCHOLARSHIPS AND SPECIAL AWARDS

The following students were awarded the Johansen Scholarships for:
1932-33—1933-34

Amy Kearsley	Miriam Stewart
Julia Greene	Rex Lowe (1st alternate)
Paul Sant	Elva Hall
Mary Crafts (alternate)	Henry Snedden
Austin E. Fife	Vivian Wangsgard
Jane G. Reed	Howard E. Law (2nd alt.)

The following students were awarded the 1927 Class Research Scholarships for 1932-33—1933-34

Boyd Burton	Elwood Spencer (alt.)	Ashlaug Jacobsen
William E. Morrell	Richard Costley	Edna Page (alt.)

The Rolla M. Rich Memorial Scholarship was awarded to Joseph Parrish (1932-33) and William R. Hatch (1933-34).

The Phi Upsilon Omicron Scholarship was awarded to Margaret Olsen (1932-33) and Phyllis Richards (1933-34).

The Chi Omega Fraternity Scholarship was awarded to Marjorie Vernon (1931-32) Divided 1932-33 with Louise Madsen (first) Miriam Stewart (second).

The Thatcher Brothers Banking Company Scholarship was divided. The winners were: 1931-32, James Morby (1st place) James Fillmore (2nd place); 1932-33, Marriner M. Morrison (1st place) LaRue Linford (2nd place) Dale Bowen (3rd place).

The A. A. Firmage Scholarship for 1931-32 was awarded to Earle W. Robinson.

The College Awards were awarded to Paul E. Grace and Maurine Flint (1931-32) Boyd Pulley and Ione Tarbet (1932-33).

The Reserve Officer's Training Corps Medal awarded to Paul E. Grace (1931-32) Boyd Pulley (1932-33).

The U. S. A. C. Science Medal won by J. Dale Schott (1931-32) William E. Morrell (1932-33).

The Vernon Medal won by Grant Redford (1931-32).

The U. A. C. Women's Club Essay Prize won by Austin Fife (1931-32) Lynn Kloepfer (1932-33).

The Sons of American Revolution Medal won by Grant Redford (1931-32) Sherman Lloyd (1932-33).

The Wright Short Story Award won by J. Rex Dibble (1931-32); Verna Carlise (1st place) Lorenzo Hansen (2nd place) Virgie Fraughton (3rd place) (1932-33).

The American Legion Scholarship Medal won by Howard E. Law (1931-32) John E. Hull (1932-33).

The American Legion Military Medal awarded to John Vranes (1931-32) Worth Gutke (1932-33).

The Gertrude Musser Howard Medal awarded to Hazel Sowards (1931-32) Marian Petersen (1932-33).

The Home Economics Award awarded to Grace Remund for 1931-32.

The Alpha Kappa Psi Medallion won by Ralph Wanlass (1931-32) Ross S. Tyson (1932-33).

The Myers Dramatic Award awarded to Oralie K. Cragun (1931-32) Joan Cardon (1932-33).

The Leadership Challenge Cup awarded to Paul E. Grace (1931-32) Joseph F. Parrish (1932-33).

The Alpha Zeta Fraternity Cup won by G. Fred Somers (1932-33).

The John K. Madsen Trophy won by Byron John Stewart (1931-32) Lawrence Simmons (1932-33).

The John M. Ritchie Trophy won by Marion Jolley (1931-32) Elmer Facer (1932-33).

The Ogden Union Stock Yards Trophy won by George W. Harmon (1931-32) Elmer H. Gibson (1932-33).

The Salt Lake Union Stock Yards Trophy won by Allen W. Hatch (1931-32) Edwin Larsen (1932-33).

The American Packing Company Trophy won by Merrill E. Cook (1931-32) Horace Palmer (1932-33).

The American-Hawaiian Steamship Trophy won by Theron Roscoe Andrus (1931-32). Merrill E. Cook (1932-33).

Livestock Judging Medals awarded to Donald Cox, Joseph Muir, Arthur Godfrey, Joseph Shelton, Glade Linebaugh and Lloyd Keller (1931-32); Merrill E. Cook, John Barnard, Milton Madsen, Dwain Pearson, John Stewart and Bedford Bird (1932-33).

LIST OF STUDENTS

Abbott, James J. as-S	Paradise	Anderson, Beth A. SS	Morgan
Abbott, Rae as-F	Tremonton	Anderson, Brice O. a-So	Salina
Abbott, Zane a-F	Tremonton	Anderson, Bryce W. as-So	Grantsville
Abersold, Lorin e-F	Providence	Anderson, Chlo ed-S	R.F.D. Logan
Adams, Hazel SS	Logan	Anderson, E. Milton a-So	Tremonton
Adams, John R. SS	Richfied	Anderson, Edwin F. c-F	Salt Lake City
Adams, Kathryn SS	Hyrum	Anderson, Etta D. ed-V	Preston, Ida.
Adams, Leila ed-So	Garland	Anderson, Fawn S. ed-So	Logan
Adams, Louis J. a-So	Parowan	Anderson, George M. c-J	Brigham City
Adams, Munro R. e-V	Logan	Anderson, Gladys B. as-S	Ogden
Adams, Verena J. as-G	Logan	Andersen, Hans P. SS	Hyrum
Adamson, Delsa c-F	Logan	Andersen, Harriette as-F	Logan
Adamson, Herbert SS	Richmond	Andersen, Hazel SS	Springville
Affleck, Clark as-G	Logan	Andersen, Ines M. as-F	Logan
Affleck, Preston e-S	Logan	Andersen, Irving E. a-J	Brigham City
Ahlstrom, Paul W. SS	Idaho Falls, Ida.	Andersen, Jack ed-S	Declo, Ida.
Ajax, Richard E. e-So	Tooele	Andersen, Jay SS	Brigham City
Alchin, Alexander c-So	Cape Town So. Africa	Anderson, Jessie as-F	Logan
Alder, Dorothy SS	Logan	Anderson, Loyal I. c-So	Hyrum
Alder, Ferdinand C. SS	Manti	Anderson, Marie as-S	Logan
Alder, Horace B. a-So-SS	Logan	Anderson, Melva L. c-G	Logan
Alder, Karl G. as-F	Preston, Ida.	Anderson, Merrill B. c-J	Logan
Alder, Laree as-F	Preston, Ida.	Anderson, Milton as-F	Richfield
Alder, LaRee ed-F	Providence	Anderson, Naomi c-F	River Heights
Alexander, George M. a-F	Vernal	Anderson, R. Clark a-S	Provo
Alexander, Glen e-S-SS	Panguitch	Anderson, Sylvester C. c-S	Millville
Allen, Albert B. SS	American Fork	Anderson, Udell SS	Moroni
Allen, Austin D., e-F	Hyrum	Andersen, Valere ho-So	Hyrum
Allen, David E. SS	Providence	Anderson, Wanda ed-F	Smithfield
Allen, Floyd J. a-J	Salt Lake City	Anderson, Wendell B. c-So	Logan
Allen, Golden L. ed-So	Portage	Anderson, Wm. N. a-So	Logan
Allen, James C. e-So	Logan	Anderson, Woodruff SS	Logan
Allen, Jean ed-F	Hyrum	Andrew, Virginia c-F	Ogden
Allen, Leland F. a-J	Logan	Andrews, Oertel ed-F	Logan
Allen, Luris P. a-J	Kingston	Andrus, Dean W. SS	Garland
Allen, Merlin W. as-So	Logan	Andrus, Owen E. a-J	Salt Lake City
Allen, Orson N. SS	Fillmore	Anthon, Ted as-J	Springville
Allen, Phyllis L. SS	Logan	Archibald, Marion e-J	Hyrum
Allen, Pollie L., c-S	Malad, Ida.	Arentson, Robert W. as-So-SS	Logan
Allen, Revoc ho-F	Kingston	Ashbaker, C. Freeman ed-SS	Grace, Ida.
Allen, Ruth May c-So	Providence	Astle, Lloyd J. as-So	Logan
Allen, Uleta as-J	Logan	Astle, Walter S. a-S	Logan
Allen, Wayne a-So	Logan	Athy, Morris B. a-J	Paris, Ida.
Allen, William C. as-V	Delta	Atkinson, Helen c-F	Garland
Allred, Cecil e-V	Talmage	Atwood, Walter E. SS	Salt Lake City
Allred, Robert Clay a-J	Moab	Aupperle, Robert N. SS	Idaho Falls, Ida.
Allsop, Warren G. ed-S	Grace, Ida.	Bachelor, Evelyn C. SS	Pocatello, Ida.
Alvord, P. Allen as-So	Logan	Badger, Phil J. a-F	Salt Lake City
Anderson, Alfred Jay ed-So	Monroe	Baer, Dorothy as-F	Providence
Anderson, Allan c-J	Brigham City	Bagley, Edward N. c-S	Salt Lake City
Anderson, Anna ho-F	Hyrum	Bahen, Harry S. a-G	Paradise
Anderson, A. Edward, Jr. c-S-SS	Logan	Bahen, Paul S. a-J	Paradise
Anderson, Arch J. ed-G	Fairview	Bahen, Ruth M. as-S	Paradise
Andersen, Ariel A. as-G	Logan	Bailey, Fred B. as-S	Wellsville

Bailey, Kenneth B. c-So	Wellsville	Bennett, Ruby E. c-F	Logan
Bailey, Loile a-F	Monticello	Bennett, William H. a-F	Taber, Canada
Bailey, Lucille as-F	..... Sterling	Bennion, Deane SS	..... Murray
Bair, Amos W. SS	..... Richmond	Bennion, Hugh C. SS	..... Rexburg, Ida.
Bair, John S. a-So	..... Richmond	Bennion, Ira L. a-J	..... Logan
Baird, Glenn a-So	..... R.F.D. Ogden	Benson, Areta ed-F	..... Woods Cross
Baker, Arthella as-S	..... Logan	Benson, Fae as-F	..... Logan
Baker, Hayward e-So	..... Logan	Benson, Harold E. e-F	..... Preston, Ida.
Baker, Robert C. e-So	..... Cokeville, Wyo.	Benson, LaVaun ed-F	..... Woods Cross
Ball, Ray C. a-F	..... Salt Lake City	Benson, Virgo ed-So	..... Logan
Ballantyme, Mary S. c-G	..... Logan	Berg, Anna Laura ho-So	..... Pocatello, Ida.
Ballard, June ho-F	..... R.D. Smithfield	Bergeson, Dale A. c-F	..... Cornish
Ballard, Russell as-F	..... Logan	Bergeson, E. C. c-G	..... Smithfield
Balling, Harold a-J-SS	..... Logan	Bergeson, Ethel S. c-F	..... Smithfield
Bancroft, Guy R. SS	..... Rudyard, Mont.	Bergeson, I. Sheldon c-So	..... Lewiston
Bangerter, Vernon A. c-So	..... Bountiful	Bergeson, Rulop C. a-G	..... Lewiston
Bankhead, Mildred as-F-SS	..... Logan	Berntson, Russell E. c-F	..... Logan
Banks, Mae c-So	..... Provo	Berrells, Laura K. as-G	..... Logan
Bardizbanian, Kourken e-J	..... Egypt	Berrett, Caroline K. ho-So	..... Logan
Bargeron, Cecil G. e-S	..... Brigham City	Berrett, Golden ed-S	..... Murray
Barkdull, Philip H. SS	..... Logan	Berrett, Halvor G. as-So	..... Ogden
Barker, Jesse T. SS	..... Newton	Berrett, Lyman C. ed-F	..... Murray
Barker, Lowell F. as-J	..... Ogden	Berrett, Maurice A. as-J	..... North Ogden
Barker, Lynn S. as-So	..... Cache Jct.	Beutler, Eva ho-J	..... Logan
Barker, William T. ed-S	..... Newton	Bickmore, Lydia c-So	..... Logan
Barlow, Raleigh as-F	..... Simms, Mont.	Bickmore, William K. SS	..... Downey, Ida.
Barnard, John J. a-S	..... Deweyville	Bignall, Reva Y. SS	..... Logan
Barnell, Leo SS	..... Kimball, Nebr.	Bingham, Afton ho-J	..... Vernal
Barney, Glen N. a-F	..... Ferron	Binns, John A. a-S	..... American Fork
Barney, Marvin L. a-So	..... Ferron	Binns, Wayne a-F	..... American Fork
Barrows, Effie ho-G	..... Logan	Birch, Clarence ed-F	..... Salt Lake City
Barrus, Fern ed-J	..... Sugar City, Ida.	Birch, George e-So	..... Hyrum
Barrus, Layton R. SS	..... Tooele	Bird, Virgil as-F	..... Springville
Barrus, Leola ho-F	..... Blackfoot, Ida.	Bird, W. Bedford a-J	..... Paris, Ida.
Barrus, Merle C. ed-So	..... Logan	Bischoff, Gladys ed-So	..... Lovell, Wyo.
Barrus, Ruth as-J	..... Logan	Bischoff, Rebecca SS	..... Lovell, Wyo.
Barrus, Thayer C. as-So	..... Logan	Bishop, Avery A. e-J	..... Delta
Barrus, Verla ho-F	..... Blackfoot, Ida	Bishop, Grant H. a-J	..... Delta
Barrus, Winford M. e-So	..... Blackfoot, Ida.	Bishop, LeRoy SS	..... Tremonton
Bartlett, Zelda ho-G	..... Burley, Ida.	Bitters, Melvin J. c-F	..... Providence
Barton, Dale e-So	..... Kaysville	Bjarnason, Loftor L. SS	..... Salt Lake City
Barton, Margaret ho-So	..... Beaver	Bjorkman, Chas. P. ed-J	..... Logan
Bassett, Rex D. e-SS	..... Lago, Ida.	Black, Versa SS	..... Salt Lake City
Rates, George S. SS	..... Logan	Blackburn, Howard a-F	..... Rexburg, Ida.
Baugh, Fred a-F	..... Salt Lake City	Blake, Reed E. SS	..... St. George
Baugh, Pearl ho-So	..... Logan	Blanchard, Archie a-G	..... Logan
Baugh, Wm. Howard e-S	..... Salt Lake City	Blanchard, Helen SS	..... Logan
Baxter, James L. c-J	..... Logan	Bohman, Stanley J. e-S	..... Monroe
Baxter, Libbie H. c-So	..... Logan	Bohne, Ervin F. SS	..... Spanish Fork
Bayles, T. Wendell ed-G	..... Parowan	Boley, Lorraine ho-S	..... American Fork
Beach, Ellis c-F	..... Ferron	Bond, Arthur SS	..... Coalville
Beagley, Deon ed-So	..... Nephi	Boss, Kenneth SS	..... Garland
Beagley, Harry SS	..... Nephi	Bott, Victor J. ed-J	..... Brigham City
Beal, Max as-So	..... Tremonton	Bowen, Beth J. c-F	..... Salt Lake City
Beal, Ray c-S	..... Richfield	Bowen, Dale S. c-J	..... Logan
Bean, Mildred ho-So	..... Nephi	Bowen, Jack R. c-F	..... Logan
Bean, Russell R. a-So	..... Brigham City	Bowen, Lucy ed-So	..... River Heights
Beard, Joseph F. SS	..... Henefer	Bowen, Ronald G. e-S	..... Logan
Beasley, John L. e-F	..... Idaho Falls, Ida.	Bower, I. Arleen ed-J	..... Ogden
Beck, Alton as-F	..... Tremonton	Bowers Douglass P. c-J	..... Salt Lake City
Beck, Irma c-V	..... Logan	Bowman, Claudius a-F	..... Logan
Beishline, Hazel SS	..... Ogden	Boyce, Paul C. SS	..... Sandy
Bell, Douglas S. a-F	..... Salt Lake City	Boyer, Fern as-So	..... Springville
Bell, George M. as-So-SS	..... Logan	Boyle, Juanita as-S	..... Logan
Bell, Wm. H. SS	..... Logan	Boyle, LeVard a-F	..... Payson
Benito, Mena Pe e-J	..... Philippine Is.	Boyle, Shirley ed-F	..... Logan

Boyle, Stanley M. SS	Victor, Ida.	Camp, Earl SS	Richfield
Brady, Elmo C. ed-J	Sandy	Campbell, Everett J. as-J	Los Angeles, Cal.
Brady, June ed-F	Arimo, Ida.	Campbell, Gwendolyn SS	Tremonton
Brady, Wells L. SS	Castle Dale	Cannon, Clarence B. a-F	Salt Lake City
Braithwaite, V. J. SS	Huntsville	Cannon, Howell L. c-J	Fielding
Brasher, Mace M. e-So	Delta	Cannon, Marva ho-F	Mt. Emmons
Breeden, John SS	Bozeman, Mont.	Capener, Edna SS	Garland
Briggs, Louis c-So	Layton	Cardon, Beth c-F	Logan
Brimhall, Ralph SS	Mesa, Ariz.	Cardon, Carlos e-F	Ogden
Brinkerhoff, Grace ho-J	Fremont	Cardon, Dorothy ho-S	Logan
Broberg, Ilah SS	Logan	Cardon, Doyle a-So	R.F.D. Smithfield
Brockbank, Glenice ed-F	Holladay	Cardon, Edna ed-F	Logan
Bronson, Veta SS	Burley, Ida.	Cardon, Joan as-S	Logan
Brough, Elmo A. a-F	Nephi	Cardon, Karma c-S-SS	Logan
Brough, Rondo B. a-F	Nephi	Cardon, Margaret ho-J	Smithfield
Brown, Bruce T. c-F	Smithfield	Cardon, Ruth c-So-SS	Logan
Brown, Effie, ed-G	Logan	Carlisle, Evelyn ho-F	Logan
Brown, Geddes D. as-J	Farr West	Carlisle, Thain as-F	Logan
Brown, H. Kenneth as-S	R. D. Ogden	Carlisle, Verna S. as-S-SS	Logan
Brown, James B. SS	Sunnyside	Carlson, Alvin G. c-G-SS	Logan
Brown, Mary c-S-SS	Smithfield	Carlson, Earl C. as-F	Downey, Ida.
Brown, Milton T. as-S	Farr West	Carlson, Enos J. SS	Logan
Brown, Ora Nona as-F	Hyrum	Carlson, Horace C. as-So	Logan
Brownfield, William SS	Turner, Mont.	Carlson, Leland H. a-S	Logan
Bryan, Alexander J. ed-G	Tooele	Carlson, Minette ho-F	Tooele
Buchanan, Douglas L. c-F	Venice	Carlson, Stella c-F	Logan
Budd, Joseph L. a-So	Big Piney, Wyo.	Carlson, Venice ed-S	Logan
Budge, Athleen as-J	Ogden	Carter, Pearl J. ho-S-SS	Logan
Budge, S. E. ed-So	Paris, Ida.	Carter, Rosella c-So	Tremonton
Budge, Vernon M. SS	Paris, Ida.	Cartwright, Leonard as-F	Richmond
Buist, Annie A. SS	Mendon	Casterline, Leonard c-S	Salt Lake City
Buist, Mary S. c-F	Wellsville	Cates, Frona C. SS	Bear River City
Bullen, Philip A. c-F-SS	Logan	Chadwick, Cleo C. e-V	Preston, Ida.
Bullen, Tad H. as-So	Logan	Chadwick, Earl a-F	American Fork
Bullock, G. LaMar e-F	Wellsville	Chadwick, LaVerne SS	Morgan
Bunderson, Mary ho-F	Brigham City	Chadwick, Rulon a-So	Ogden
Bunnell, LeRoy SS	Provo	Chambers, Noble c-S	Smithfield
Burgess, Stanley D. a-So	Salina	Chattin, Helen E. ho-S-SS	Idaho Falls, Ida.
Burgin, Lloyd e-V	Logan	Cheney, Clayton B. as-J-SS	Brigham City
Burgin, Ruth c-V	Logan	Cheney, Gretta SS	Laketown
Burgoyne, Margaret c-G	Logan	Cheney, Orval e-F	Garland
Burke, Melvin a-G	Honeyville	Christensen, Alex L. as-J	Logan
Burn, William R. SS	Hiawatha	Christensen, Anthony ed-J	Aurora
Burnham, Lyman P. c-S	Logan	Christensen, Carol C. ho-J	Newton
Burnham, Weldon S. as-J	Logan	Christiansen, E. L. SS	Draper
Burrup, Clyde L. as-F	Downey, Ida.	Christensen, Guy B. ed-S-SS	Logan
Burrup, Marjorie ed-F	Downey, Ida.	Christensen, J. D. SS	Moroni
Burt, Nina ho-V	Logan	Christiansen, John R. c-J-SS	Logan
Burton, Clifford SS	Afton, Wyo.	Christensen, LaVon A. ed-SS	Salina
Burton, Edw. Boyd a-S	Nephi	Christensen, Leonard a-F	Salt Lake City
Burton, Ruth ho-So	Salt Lake City	Christensen, Loraine as-J	Logan
Burton, Sam B. SS	Morgan	Christensen, Lucille M. ed-So	Elsinore
Burton, Ted SS	Garland	Christensen, Maurine as-So	Downey, Ida.
Buttars, Hedvig ho-F	Cornish	Christensen, Paul F. SS	Wellsville
Butterfield, Elias C. c-F	Riverton	Christensen, Ralph P. as-J	Wellsville
Butters, Carl A. SS	Morgan	Christiansen, Verland L. SS	Moreland, Ida.
Bybee, Mildred ed-F	Lewiston	Christensen, Vernon as-So	Mt. Pleasant
		Christoffersen, Wayne a-So	So. Brigham
		Christopherson, Virginia as-F	
Cahoon, James W. e-So	Magna		
Caine, Kathryn SS	Logan		
Calderwood, James as-F	Logan	Chugg, Grant E. e-S	Salt Lake City
Call, Edith c-F	Logan	Chugg, Nile R. c-So	Providence
Call, Ellis W. e-F	Bancroft, Ida.	Church, Della c-S	Logan
Call, Lilly S. SS	Logan	Church, Vernon SS	LaVerkin
Callister, Eldon a-So	Blackfoot, Ida.	Clark, Alta SS	Etna, Wyo.
Callister, Orson c-So	Logan	Clark, Clayton as-S	Logan

Clark, DeVon M. a-S	Logan
Clark, Hazel SS	Etna, Wyo.
Clark, John O. SS	Pleasant Grove
Clark, Lealand A. SS	Pleasant Grove
Clark, Lewis a-J	Ogden
Clark, Vera c-F	Farmington
Clark, Wesley c-So	Logan
Clawson, Joyce as-J	Providence
Clawson, Vincent c-So	Providence
Clay, Evan P. e-F	Bountiful
Clayton, Ruth C. ho-S	Salt Lake City
Clegg, H. J. a-So	Tooele
Clegg, Will L. SS	Hanna, Wyo.
Clyde, W. Cornell e-F	Springville
Cole, Ursula SS	Paris, Idaho
Cole, William C. as-So	Nephi
Collier, Theodore R. as-S	Logan
Coltharp, Edward c-So	Vernal
Condie, James P. as-F	Preston, Idaho
Connell, Joseph W. SS	Ogden
Cook, Harold A. a-So	Ferron
Cook, J. Vernon e-F	Garden City
Cook, Mabel ho-F	Garden City
Cook, Marian SS	Idaho Falls, Ida.
Cook, Merrill E. a-S	Paris, Ida.
Cook, Nora E. SS	Ogden
Cooley, Carma ed-F	Logan
Cooley, Maude as-S	Logan
Cooley, Vern A. as-So	Logan
Coombs, Mark V. as-J	Logan
Cooper, Henry R. as-J	Wellsville
Corbett, Grace c-V	Logan
Corbridge, Elaine c-F	Logan
Cordon, Theone C. as-G	Rigby, Ida.
Cordon, William A. e-So	Rigby, Ida.
Corless, Margaret SS	Ogden
Costley, Richard J. as-J-SS	Ashton, Ida.
Couch, Joseph A. a-F	Salt Lake City
Countryman, Kenneth c-So	Bingham Canyon
Cowan, Max L. as-So	Payson
Cowles, Virgil E. a-SS	Kimberley, Ida.
Cox, Adele H. ho-F	Fairview
Cox, Alice Ann ho-F	Pocatello, Ida.
Cox, Elva as-F	Spring City
Cox, J. Gilbert e-So	Woodruff
Cox, Minnie E. c-So	Shelley, Ida.
Cox, Pearl ed-F	Ferron
Cox, W. Chad a-J	Fairview
Crafts, Mable R. as-F	Deseret
Crafts, Mary E. ho-S-SS	Deseret
Crandall, Josephine as-F	Springville
Crane, Basil a-So	Logan
Crane, Clayton O. e-J	Logan
Crane, Golda ed-So	Logan
Crane, Ralph O. ed-So	Ogden
Cranney, Frank c-So	Logan
Cranney, Rie ed-S	Logan
Crawford, Beth ho-F	Price
Crawford, Jean ed-SS	Salt Lake City
Crawford, L. DeVere a-So	Paris, Ida.
Criddle, Wayne D. a-F	Clearfield
Crockett, Cardon c-So	Richmond
Crockett, Darrell W. c-S	Logan
Crockett, Donald as-So	Montpelier, Ida.
Crockett, Norma c-So	Logan
Cromar, Eugene E. SS	Logan
Crossley, Ila ho-S-SS	Grace, Ida.
Crowl, John M. a-S	Urbana, Ohio
Crowton, David M. a-V	Salt Lake City
Cruikshank, Donald ed-SS	Logan
Cullen, Lillian A. SS	Pocatello, Ida.
Curran, Dan SS	Pocatello, Ida.
Curtis, Elmo W. c-F	Berkeley, Cal.
Curtis, Melva as-So	Payson
Curtis, Mildred as-So	Payson
Cutler, Harold H. c-S-SS	Logan
Cutler, Lowell as-S-SS	Snowville
Cutler, Lucy ed-F	Preston, Ida.
Cutler, Vivian L. ho-F	Corinne
Dahle, Robert SS	Ferron
Daines, Faye as-So	Logan
Daines, Joseph G. as-F	Logan
Daines, Lorenzo D. c-So-SS	Logan
Daines, Myra ho-F	Hyde Park
Daines, Ruby as-So	Logan
Daines, Spencer H. as-So	Hyde Park
Daines, Weston as-F	Logan
Dalby, John P. SS	Palisade, Colo.
Damele, Margaret SS	Eureka, Nev.
Damele, Pietrina SS	Eureka, Nev.
Daniels, Willa as-F-SS	Logan
Darley, Arch E. SS	Wellsville
Darley, Elizabeth S. ho-So	Wellsville
Darley, Farrell B. c-G	Wellsville
Davies, Chas. H. SS	Provo
Davies, Vernon SS	Cannonville
Davis, LeRene SS	Mesa, Ariz.
Davis, Marvin F. c-F	Logan
Davis, Wendel A. c-So	Mesa, Ariz.
Dean, Warren as-J	Beaver
Dean, William SS	Evanston, Wyo.
Decker, Clyde M. as-F	R. F. D. Farmington
Decker, John F. a-SS	Aberdeen, Ida.
Degn, Wilford as-F	Logan
Densley, Duane ed-F	Riverton
Deschamps, Ray c-J	Logan
Despain, Clive R. SS	Axtell
Dibble, Cleve SS	Logan
Dickerson, Wesley R. a-F	Pleasant Grove
Dixon, Gordon A. as-S	Ashton, Ida.
Dockum, Norman L. as-F	Ogden
Doherty, Loretta M. ed-SS	Maurice, Iowa
Doman, James C. e-So	Logan
Domgaard, Gwen as-S	Glenwood
Domgaard, Mignon ho-J	Glenwood
Donohoo, Dewey C. a-V	Logan
Dopp, Donald E. a-So	Logan
Dorrity, Ferd SS	Kanosh
Doty, Ina c-J	Richmond
Douglas, Allan G. as-J	Salt Lake City
Duce, William B. c-F	Hyde Park
Dudley, Myrtle SS	Jensen
Duke, Vern V. c-S	Rexburg, Ida.
Duke, Wilson c-So	Vernal
Duncan, Delmar G. as-F	R. F. D. Farmington
Dunkley, Margaret L. ho-F	Franklin, Ida.
Dunkley, Parley L. c-So	Franklin, Ida.
Dunn, James H. SS	Logan
Dunn, Lula c-So-SS	Logan

Dunn, Meryl SS	Logan	Faus, Reo Rae e-F	Merrill, Ore.
Dunn, Oscar L. ed-So	Logan	Favero, Alfred as-F	Hooper
Dunn, Ruth ho-F	Brigham City	Felsted, Harold N. e-S	Preston, Ida.
Dutson, Rollo c-So	Hinckley	Felsted, LaNay e-So	Logan
Eager, James H. a-G	Logan	Fiala, John J. SS	Preston, Ida.
Eames, Donna ed-F	Preston, Ida.	Fife, Austin E. as-J	Logan
Eames, Roberta G. ed-So	Preston, Ida.	Fife, Blanche c-F	Providence
Earl, Lemuel R. as-F	Fielding	Fife, Dean E. e-So	Logan
Ebert, Frank J. SS	Salt Lake City	Fife, Glenchora ho-J	Logan
Ebert, Raymond SS	Salt Lake City	Fillmore, A. James as-G	Richfield
Edwards, G. Raymond SS	Lovelock, Nev.	Fillmore, Beth M. ho-S	Logan
Edwards, Melvin SS	Salt Lake City	Fillmore, Parker P. c-S	Richfield
Edwards, Raymond SS	Lovelock, Nev.	Finlinson, Rich L. a-F	Leamington
Edwards, Wilma SS	Lovelock, Nev.	Finlinson, Wm. Walker a-So	Leamington
Egbert, Gordon R. as-F	Logan	Firmage, J. H. c-S	American Fork
Egbert, Hortense as-F	Smithfield	Fisher, Albert C. as-SS	Richmond
Egbert, Margaret ed-S-SS	Logan	Fisher, Fern as-F	R.F.D. Clearfield
Egbert, Shirley as-F	Smithfield	Flake, Augusta SS	Snowflake, Ariz.
Elder, Lloyd S. a-F	Salt Lake City	Flamm, Phyllis A. ho-So	Billings, Mont.
Eliason, Courtleigh as-F	Logan	Fleming, Mildred SS	New Goshen, Ind.
Eliason, Ethel SS	Logan	Fletcher, Esther ho-F	Wellsville
Eliason, Newel G. SS	Logan	Fletcher, Herbert C. as-S	Logan
Eliason, Ree SS	Logan	Fletcher, Joel E. as-J	Logan
Elhason, Don J. a-J	Logan	Fletcher, Ruth ho-So	Logan
Empey, Claude L. SS	Price	Fletcher, Sara SS	Logan
Empey, Clifford SS	Parowan	Floyd, James W. a-J	Logan
England, Clarence c-V	Logan	Fluckiger, Alvin ed-J	Afton, Wyo.
England, Edwin a-So	Logan	Fluckiger, Norville a-J	Afton, Wyo.
England, Eugene ed-F	Logan	Foley, Lynn E. c-F	Ogden
England, Maurine ed-F	Logan	Fonnesbeck, Baron as-F	Logan
Engstrom, Lamar a-F	Huntsville	Fonnesbeck, Frances as-F	Logan
Engstrom, Uno e-J	Los Angeles, Cal.	Fonnesbeck, Frank a-S	Logan
Erickson, Arval L. SS	Rexburg, Ida.	Ford, Bertha ed-So	Farmington
Erickson, Durell SS	Collinston	Ford, J. Harold c-So	Farmington
Erickson, Esther ed-S-SS	Logan	Ford, Jeannette as-F	Farmington
Erickson, Glen A. c-So	Logan	Forgeon, Aland ed-S	Salt Lake City
Erickson, Kenneth SS	Collinston	Forgeon, Jack a-So	Salt Lake City
Eriksson, Carl a-F	Salina	Foster, Reed a-So	Logan
Esplin, A. C. a-G	Logan	Fowler, Frances ho-F	Salt Lake City
Esplin, Oleen as-So	Logan	Foy, Jos. C. a-J	Panguitch
Esplin, Ralph M. a-F	Logan	Frandsen, Kenneth S. e-G	Salt Lake City
Evans, Arthur H. SS	Idaho Falls, Ida.	Frandsen, Linden E. as-S-SS	Salt Lake City
Evans, Bertie Mae ed-J	Logan	Fraughton, Dee e-So	Heber
Evans, Clifford C. SS	Arimo, Ida.	Fraughton, Virgie as-J	Heber
Evans, Helen SS	Logan	Frazier, Donald a-F	Merrill, Ore.
Evans, Katherine C. SS	Murtaugh, Ida.	Frederickson, Carmen ho-G	Logan
Evans, Lucille ed-So	Logan	Frederickson, Greta ed-J	Logan
Evans, Maria SS	Malad, Ida.	Frederickson, Phyllis ed-J	Ogden
Evans, Robert J. as-J	Logan	Freeman, Alf L. as-J-SS	Brigham City
Everton, Bessie B. c-J	Logan	Freeman, Keith ed-F	Brigham City
Everton, Wallace K. c-J	Logan	Freeman, Mae ed-F	Brigham City
Ewer, Wayne SS	Logan	Freeman, Wilford a-S-SS	Brigham City
Ewing, Lazelle ed-F	Smithfield	Fridal, K. H. as-So	Tremonton
Facer, J. Elmer a-So	Brigham City	Fridal, Max as-F	Tremonton
Fackrell, Lloyd as-So-SS	Preston, Ida.	Frischknecht, Carl a-G	Manti
Fagerlund, Gunner O. a-G	Rolla, N. Dak.	Frost, Ray L. c-S	Ephraim
Fahrni, Beth M. as-So	Lark	Fry, Burke as-J	Ogden
Fails, Floyd D. e-So	Declo, Ida.	Frye, Clifford ed-SS	Brigham City
Falk, Carl SS	Pocatello, Ida.	Fugal, Delbert SS	Pleasant Grove
Fallows, Albert SS	Hyrum	Fuhriman, Delbert c-So	Providence
Farnes, Loree SS	Logan	Fuhriman, Jacob A. SS	Providence
Farr, Bramley as-So	Smithfield	Fuller, Donald H. as-So	Columbia
Farr, Doris as-G	Arimo, Ida.	Funk, McLaren J. as-F	Brigham City
Farr, Leah as-J	Ogden		

Galbraith, Ted W. as-So.....	Blanding	Griffin, Mina ho-SS	Newton
Gale, Gilbert a-F.....	Beaver	Griffin, Spencer SS	Newton
Galloway, Olive ho-SS.....	Roosevelt	Griffiths, Naomi SS	Logan
Garbett, Donna ed-F.....	Nephi	Griffiths, Nathan as-So	Smithfield
Gardner, Cynthia SS.....	Logan	Grow, Charlotte SS	Panguitch
Gardner, Eldon as-S-SS.....	Logan	Gudmundson, Arthur SS	Logan
Gardner, Eugene as-So-SS.....	Logan	Gundersen, Arden a-J	Salt Lake City
Gardner, Tess as-F.....	Salt Lake City	Gunderson, John D. SS	Gariand
Garff, Ronow D. a-G.....	Salt Lake City	Gunderson, Orson W. ed-So	Holladay
Garff, Wayne B. ed-F.....	Salt Lake City	Gunn, Edith Ann ed-So	Richfield
Garner, Hazel as-V.....	Ogden	Gunn, James F. as-F	Richfield
Garner, Ray D. SS.....	Ogden	Gunnell, Ernest B. c-So	Richmond
Garrett, Ernest B. SS	Lehi	Gunnell, Farrell as-So	Wellsville
Garrett, Wanda SS.....	Nephi	Gunnell, Merrill SS	Wellsville
Garvin, Genevieve SS.....	Pocatello, Ida.	Gunnell, Wayne as-F	Howell
Gaz, John A. a-F.....	Salt Lake City	Gunnell, Winston R. c-S	Wellsville
Geddes, Donna ed-F.....	Logan	Gutke, Ralph as-So	Smithfield
Geddes, Paul as-F.....	Salt Lake City	Gutke, Worth c-S	Smithfield
Geddes, Paul L. ed-J-SS.....	Preston, Ida.	Guymon, John SS	Moroni
Gee, Merrill SS.....	Pocatello, Ida.	Guymon, Valera ho-S	Logan
Gentry, LaVerne ed-S.....	Beaver		
Gephart, Edythe J. as-So.....	Tremonton	Hafen, H. Val SS	Santa Clara
Gerber, Robert K. a-G.....	Salt Lake City	Hale, Clarence a-S	Afton, Wyo.
Gerend, Wanda ed-F.....	Logan	Hale, Elsa ed-F	Afton, Wyo.
Germer, Max SS.....	Dewey	Hale, Lucius M. e-F	Logan
Gessel, Alton G. a-F.....	Logan	Hale, Olive ho-J	Logan
Gessel, Julia c-So	Providence	Hale, Varian E. SS	Ogden
Gessel, Theodore e-So	Providence	Hales, Leah SS	Spanish Fork
Gibbons, A. H. ed-G-SS.....	Kanab	Halgren, Joseph D. SS	Cornish
Gibbons, Eva LaRetta ho-So.....	Garden City	Hall, Elva ho-J	Minersville
Gibbons, Lowell as-F.....	Garden City	Hamilton, Irene ed-J	Sugar City, Ida.
Gibson, Elmer H. a-J.....	Ogden	Hammond, Owen H. SS	Providence
Gibson, Florence ed-So.....	Logan	Hammond, Ruth as-J-SS	Logan
Gillett, Joseph A. a-G.....	Declo, Ida.	Hamson, Maude ed-F.....	Tremonton
Gilmouth, Mildred SS	Joliet, Mont.	Handley, Thatcher as-So	Richfield
Gleave, Rex O. as-J.....	Brigham City	Hanegan, Marye ed-F-SS	Logan
Gledhill, Preston SS.....	Richfield	Hanlon, Edward SS	Pocatello, Ida.
Glenn, Darwin a-F.....	Logan	Hancey, Carlos SS	Hyde Park
Glenn, George A. a-So.....	Logan	Hancock, Victor SS	Ogden
Glenn, Lee J. SS.....	Brigham City	Hansen, Aleen SS	Tremonton
Glenn, Marshall a-J.....	R.F.D. Logan	Hansen, Alice M. c-J-SS	Logan
Goates, Wallace A. as-G.....	Logan	Hansen, Alvin M. SS	Providence
Godfrey, Arthur J. a-G.....	Murray	Hansen, Anna ed-So	Providence
Goff, Ivanowna as-F.....	Preston, Ida.	Hansen, Apollo SS	Coalville
Goodey, Barson as-F.....	Clarkston	Hansen, Bernice ed-F.....	Logan
Goodey, Tellma SS.....	Clarkston	Hanson, Eldon G. as-F-SS	Logan
Goodsell, Dean SS.....	Shelley, Ida.	Hansen, Ellis S. as-So	Paradise
Grace, Paul ed-G.....	Nephi	Hansen, Erma SS	Tremonton
Grady, Frank SS.....	Bozeman, Mont.	Hansen, Evelyn ho-J	Tooele
Graff, Elmer A. SS	Santa Clara	Hansen, Gerald M. a-So	Logan
Grange, A. Hollis c-So	Price	Hansen, Glen L. SS	Ogden
Greaves, Paul C. c-So	Logan	Hansen, Gordon J. a-So	Logan
Greaves, Pernecey ho-S-SS.....	Logan	Hansen, Harold J. e-So	Elsinore
Greaves, Vera D. as-F.....	Logan	Hansen, Harry W. e-F.....	Tremonton
Green, Carl SS.....	Eden	Hansen, Hilda ed-F.....	Salt Lake City
Green, Edith ho-F.....	Logan	Hansen, Leanore B. ed-S	Logan
Greene, Boyce L. a-So	Logan	Hansen, Lorenzo F. e-So	Logan
Greene, Julia ed-S.....	Logan	Hansen, Norman E. SS	Smithfield
Greene, Laura as-S.....	Logan	Hanson, Olive c-J	Providence
Greenhalgh, Joel SS	Brigham City	Hansen, Reta Mae as-F.....	Logan
Greenhalgh, Wm. H. e-So	Nephi	Hansen, Reuben SS	Hyrum
Greenwood, Afton, ed-F.....	Nephi	Hansen, Royce W. a-F.....	Providence
Griffeth, Louva ed-F.....	Logan	Hansen, Ruby M. ho-F.....	Logan
Griffin, Dorothy F. ho-So	Ogden	Hansen, Venice SS	Logan
Griffin, J. Marcus as-G-SS	Newton	Hansen, Walter O. a-So	Providence
Griffin, Maude c-So	Logan	Hansen, William L. c-V	Salt Lake City

Hansen, Winston a-So	Providence	Henric, Elva SS	Driggs, Ida.
Harmon, Culbert SS	Price	Henrie, Irven L. SS	Gunnison
Harmon, George a-S	St. George	Henson, Arthur T. SS	Logan
Harmon, Mont as-J-SS	Brigham City	Henson, A. T. Sr. SS	Logan
Harper, Glenn H. a-So	Holladay	Hepworth, Clarence W. as-S-SS	Elba, Ida.
Harris, Charles M. as-F	Richmond	Herbert, Harry L. SS	Malad, Ida.
Harris, Dorothy ed-So	Layton	Hervilla, Ole c-J	Bingham Canyon
Harris, Eugene c-F	Los Angeles, Cal.	Hess, A. Wm. SS	Logan
Harris, Frederick B. SS	Brigham City	Hess, Alvin SS	Fielding
Harris, L. Dale e-So	Layton	Hess, Blanche Z. c-F-SS	Logan
Harris, LaPhene e-S	Logan	Hess, Guinevere as-J	Ogden
Harris, Lloyd R. as-S	Tremontton	Hess, Willis as-So	Fielding
Harris, Lula ed-So	Richmond	Hickman, Amar as-F	Ogden
Harris, Ruby J. ho-So	Tremontton	Hickman, Iola as-G	Ogden
Harris, Spencer A. e-J	Layton	Hickman, Marva ed-So	Logan
Harris, Walter C. c-So	Pasadena, Cal.	Hickman, Thorval L. as-J	Logan
Harrison, Conrad B. as-J	Logan	Higgins, Laurel ed-F	Logan
Harshbarger, Vaughn ed-S	Squirrel, Ida.	Higgins, Mack c-F	Logan
Hart, Adelbert W. as-J-SS	Preston, Ida.	Hill, Cornella ho-S-SS	Logan
Hart, Alfred B. as-S	Bloomington, Ida.	Hill, Jessie as-So	Logan
Hart, Flora ed-G	Bloomington, Ida.	Hill, Kathleen S. ed-So	R.F.D. Ogden
Hart, Gwendolyn c-F	Logan	Hill, LaMar L. as-So	Thistle
Hart, Joel L. as-V	Preston, Ida.	Hill, Mark E. a-S	Salt Lake City
Hart, Newell S. a-F	Preston, Ida.	Hill, Richard S. SS	Logan
Hart, Philip J. as-So	Bloomington, Ida.	Hill, Willard K. SS	Logan
Hart, Rhea ed-F	Preston, Ida.	Hill, William O. a-So	Carling, Nev.
Hartman, Edw. Max e-V	Mt. Emmons	Hillam, LeRoy W. SS	Salt Lake City
Hartman, James SS	Pocatello, Ida.	Hinckley, De Vere T. e-F	Brigham City
Hartvigsen, Hazel ed-F	Downey, Ida.	Hinckley, Ellen R. as-G	Brigham City
Harvey, James B. c-So	Kaysville	Hinckley, Frank T. as-F	Cowley, Wyo.
Haslam, Reuben c-J	Logan	Hirst, Russell as-F	Logan
Hassell, Robert L. a-F	Mammoth	Hodges, Fannie K. as-F	Logan
Hatch, Allen W. a-So	Randolph	Hodges, L. E. SS	Logan
Hatch, C. Dallas c-So	Vernal	Hodges, Lynn J. ed-S-SS	Logan
Hatch, Elton as-J	Woods Cross	Hodgson, Elinor as-F	Logan
Hatch, Frank C. a-F	Scipio	Hodgson, Mary as-J	Logan
Hatch, Hyra as-So	Logan	Hoefst, Mary B. ed-F	Vernal
Hatch, Sumner SS	Heber	Hoffman, Olif as-G	Logan
Hatch, Victor M. as-So	Logan	Hogan, Dorothy ed-F	Thatcher, Ida.
Hatch, Wm. R. a-So-SS	Idaho Falls, Ida.	Hogenson, Beatrice as-J-SS	Logan
Hathcock, Luella W. ed-S-SS	Logan	Hogenson, James C. SS	Logan
Hawkes, Frank J. ed-G	Logan	Hogenson, Lydia B. c-S	Logan
Hawkes, Gordon e-J	Logan	Holbrook, Grace E. SS	Rugby, N. Dakota
Hawkes, Kendrick C. ed-J-SS	Preston, Ida.	Holbrook, L. Dale c-F	Clearfield
Hawkes, Lorin J. e-F	Logan	Holdaway, David B. SS	Deweyville
Hawkins, LaMarr F. ed-J	Nephi	Holmgren, Echo ed-So	Bear River City
Haws, Beatrice as-F	Mesa, Ariz.	Holmgren, Lyle E. as-F	Tremontton
Hayward, J. Clare as-S-SS	Logan	Holmgren, Phyllis c-V	Tremontton
Hayward, Willis H. as-S-SS	Logan	Holt, LaMar as-F	Clearfield
Heaton, Israel C. ed-So	Kanab	Holton, Hyrum P. e-S	Brigham City
Heaton, J. Floyd as-F	Alton	Homer, J. Wendell as-F	Logan
Heggie, Andrew L. e-S	Clarkston	Hooper, Carl G. as-F	Ogden
Heggie, John L. e-J	Clarkston	Hoopes, Eloise SS	Brigham City
Heiner, Eulala SS	Morgan	Hoover, Roland SS	Park City
Heitz, William S. e-F	Logan	Hopkins, Clair R. a-So	Delta
Hemstreet, Glen T. c-So	Vernal	Hopkins, Clyde M. a-V	Salt Lake City
Henderson, Afton H. as-F	Logan	Hopkinson, Jane ed-SS	Sunnyside
Henderson, Edgar D. as-F	Arimo, Ida.	Hopkinson, Margaret SS	Sunnyside
Henderson, Weber W. as-So	Logan	Hovey, Angus SS	Millville
Hendricks, Beth E. ed-J	Richmond	Hovey, Dennis R. a-So	Logan
Hendricks, David R. a-F	Lewiston	Howard, Francis SS	Pocatello, Ida.
Hendricks, Gayle ho-F	Lewiston	Howard, Fred P. a-J	Malad, Ida.
Hendricks, George c-F	Logan	Howard, Miriam SS	American Falls, Ida.
Hendricks, Glen M. as-F	Ogden	Howell, Keith a-F	Logan
Hendrickson, Gladys as-So	Idaho Falls, Ida.	Howell, Leray S. c-J	Clifton, Ida.
		Hughes, Jonathan SS	Milford

Hughes, Van Nay SS	Tishamingo, Okla.	Jensen, Elaine ed-So	Mantua
Hull, Harold M. a-F	Whitney, Ida.	Jenson, Eleanor ed-J	Brigham City
Hull, John E. as-J	Logan	Jensen, Ethel ed-J	Brigham City
Hull, Lorna ed-F	Whitney, Ida.	Jensen, Evert J. a-J	Ephraim
Hull, Robert M. as-So	Logan	Jensen, Frank C. a-G-SS	Salt Lake City
Hull, Roy c-F	Logan	Jensen, Fred a-So	Richfield
Hulme, Horace as-So	Paris, Ida.	Jensen, Gordon M. as-F	Hyrum
Hulme, J. Alan c-J	Logan	Jensen, Irwin SS	Paris, Ida.
Hulse, Carlos a-F	Kamas	Jenson, John C. a-F	Sandy
Humpherys, Adell ed-So	Logan	Jensen, Lee G. c-So-SS	Salt Lake City
Humpherys, Dean H. c-So	Logan	Jenson, Lela SS	Bear River City
Humpherys, Gen S. as-F	Logan	Jenson, Lloyd E. as-So	Logan
Humpherys, LeGrand R. SS	Logan	Jenson, Ralph ed-F	Brigham City
Humpherys, Russell L. c-J	Logan	Jensen, Ronald V. c-F	Hyrum
Humphrey, J. Stanley a-J	Ephraim	Jenson, Roy N. as-F	Brigham City
Hunsaker, Harper as-F	Honeyville	Jenson, Royal L. as-S	Brigham City
Hunsaker, Loyd R. ed-J	Tremonton	Jensen, Rue as-So	Glenwood
Hunsaker, Reginald e-J	Tremonton	Jensen, Verba as-S	Blackfoot, Ida.
Hunsaker, Una ed-F	Tremonton	Jensen, Violet as-F	Brigham City
Hunt, Dalton E. a-F	Monroe	Jeppson, Earl F. a-F	Brigham City
Hunter, Don J. as-F	Logan	Jeppson, Ford S. ed-F	Brigham City
Hunter, Muriel H. c-J	Logan	Jeppson, Norinne SS	Mantua
Hunter, Webster B. c-S	Logan	Jeppen, Darwin as-F	Logan
Huntington, Stanley ed-So	Castle Dale	Jessop, Donald SS	Logan
Huntsicker, Ruth SS	Boulder, Colo.	Jessop, Howard V. c-G	Logan
Hurst, Lucy ed-F	Shelley, Ida.	Jessop, Sylmar G. SS	Lewiston
Hurst, Vera Mae ho-F	Salt Lake City	Jewkes, Ellsworth T. a-F	Price
Hutchinson, Abraham E. SS	Logan	Johnson, Angela SS	Logan
	Evanston, Wyo.	Johnson, Anna ho-F	Richmond
		Johnson, Ariel e-F	Richmond
Innes, Hazel c-So	Garland	Johnson, Blaine W. a-J	Pleasant Grove
Irvine, Gayle T. SS	Salt Lake City	Johnson, Cale C. a-So	Ioka
Irwin, Grace SS	Laketown	Johnson, Carl B. SS	Richmond
Israelsen, Alice SS	Hyrum	Johnson, Clyde L. as-So	Lewiston
Iverson, Boyd as-F	Bingham Canyon	Johnson, Dean V. a-S	Pleasant Grove
Iverson, Dell M. a-So	Copperton	Johnson, Donald L. e-F	Elsinore
Iverson, Lafell SS	LaVerkin	Johnson, Elma as-F	Logan
Iverson, VaLay ho-F	Tremonton	Johnson, Eva Myrle ho-F	Bancroft, Ida.
Iverson, Wells J. SS	Kanosh	Johnson, Georgia c-F	Richfield
Ivie, H. Leon SS	Montpelier, Ida.	Johnson, Gertie ho-S	Richmond
Ivie, James O. as-G	Salina	Johnson, Harmon SS	Richmond
		Johnson, Helen as-J	Logan
Jackson, Esther ho-S-SS	Logan	Johnson, John W. SS	Brigham City
Jackson, George F. a-J-SS	Ephraim	Johnson, Joseph L. ed-J	Firth, Ida.
Jackson, Leslie a-G	Tooele	Johnson, Karma SS	Price
Jackson, Richard W. SS	Salt Lake City	Johnson, Leola SS	Logan
Jackson, V. Rex ed-F	Logan	Johnson, Lloyd N. c-So	Ashton, Ida.
Jacobsen, Ashlaug ho-So	Logan	Johnson, Melba ho-F	Preston, Ida.
Jacobsen, Maurine SS	Logan	Johnson, O. Dorian c-F	Logan
Jacobsen, Ella Marie as-F	Logan	Johnson, R. Leon as-So	Logan
James, Max SS	Paradise	Johnson, Reed S. e-F	Pleasant Grove
Jamison, Vernon C. as-F	Coalville	Johnson, Reese c-F	Richmond
Janes, Melvin J. as-G-SS	Providence	Johnson, Rhoda M. ed-J	Elsinore
Jeffries, Herbert C. as-F	Pasadena, Cal.	Johnson, Rolland as-J	Lewiston
Jenkins, George SS	Logan	Johnson, Theta SS	Logan
Jenkins, J. D. ed-G	Logan	Johnson, Wallace M. a-S	Ogden
Jenkins, John L. as-J	Logan	Johnston, Francis as-F	Rawlins, Wyo.
Jenkins, Louie I. ed-So	Freedom, Wyo.	Johnston, Richard L. SS	Idaho Falls, Ida.
Jenkins, Lulu Rae as-J	Robertson, Wyo.	Jones, Blanche B. ed-J	Spanish Fork
Jennings, Robert W. e-S	Logan	Jones, Charles H. e-J	Sunnyside
Jensen, Darwin ed-S	Bear River City	Jones, Dale A. as-So	Logan
Jensen, David C. SS	Preston, Ida.	Jones, Dortha L. c-F	Malad, Ida.
Jenson, Dewane SS	Hyrum	Jones, E. Ronald as-J	Malad, Ida.
Jensen, Don A. c-J	Hyrum	Jones, Evelyn SS	Malad, Ida.
Jensen, Earl S. e-J	Logan	Jones, Fawn as-So	Heber City
Jensen, Edmund J. as-J	Logan	Jones, Ferris H. c-S	Wellsville

Jones, George O. e-S	Cache Jct.	Knight, Uarda as-F	Salt Lake City
Jones, Gerald H. e-S	Logan	Knobel, Frederick H. a-G	Yakima, Wash.
Jones, J. Reed c-F	Cedar City	Knott, Frances E. SS	Garland
Jones, J. Virgil c-J	Garland	Knowles, Howard as-So	Logan
Jones, Jay P. a-So	Spanish Fork	Knowlton, Dorothy ho-So	Grantsville
Jones, Lillian as-F	Malad, Ida.	Kofoed, Bernice ed-So	Preston, Ida.
Jones, Lorraine c-S	Cache Jct.	Kofoed, Ellen ed-So	Preston, Ida.
Jones, Louis SS	Malad, Ida.	Kofoed, Harold A. c-S	Logan
Jones, Mark F. a-So	Springville	Kofoed, Rilla ed-So	Weston, Ida.
Jones, Oren J. a-J	Malad, Ida.	Kotter, Jack a-So	Brigham City
Jones, R. Karl e-V	Cedar City	Kowallis, Wilhelm A. e-F	Logan
Jones, Thomas V. a-So	Malad, Ida.	Kunz, W. Howard as-S-SS	Logan
Jones, William E. SS	Arimo, Ida.		
Jones, Wm. J. SS	Hiawatha	LaBelle, Harold E. SS	Tooele
Jorgensen, Arthur W. e-F	Hyrum	Lallatin, Mark M. as-So	Soda Springs, Ida.
Jorgensen, Clyde H. c-S	Logan	Lamb, G. Frank SS	Bozeman, Mont.
Jorgensen, Earl a-F	Logan	Lambert, Carl a-So	Parowan
Jorgensen, LeRoy I. as-F	Hyrum	Lambert, Joseph a-F	Ogden
Jorgensen, May ed-F	Hyrum	Larsen, A. Ellwin a-F	Mt. Pleasant
Jorgensen, Orba SS	Huntsville	Larsen, Annie ho-J	Newton
Jorgensen, Vera SS	Ephraim	Larsen, Ardis c-S-SS	Smithfield
Judah, Mayme c-S	Logan	Larsen, Arland A. a-So	Logan
Jurich, LaVina ed-F	Rock Springs, Wyo.	Larsen, Arta SS	Newton
		Larsen, Austin ed-F	Mantua
Kearsley, Amy ho-S	Heber City	Larsen, Carlos G. as-F	Castle Dale
Keetch, Louise SS	St. Charles, Ida.	Larsen, Clyde P. SS	Newton
Keller, Clarence M. c-F	Ogden	Larsen, Cora ho-So	Logan
Keller, Duane D. SS	Mink Creek, Ida.	Larsen, Dora SS	Logan
Keller, Ernest V. e-F	Logan	Larsen, Edgar L. SS	Hyrum
Keller, Floyd L. as-S-SS	Mink Creek, Ida.	Larsen, Ethel c-F	Logan
Keller, Lloyd W. c-S	Ogden	Larsen, Ethelyn ho-So	Smithfield
Keller, Lynn a-So	Manti	Larsen, Everett H. e-S	Logan
Keller, Park D. as-J	Logan	Larsen, Frank W. a-S	Logan
Keller, Paul D. as-J	Logan	Larsen, Grace c-F	Preston, Ida.
Kellett, Mont R. SS	Moroni	Larsen, Howard D. e-S	Salt Lake City
Kelly, Harold D. c-So	Jordan	Larsen, J. Byron c-S	Logan
Kelly, Howard B. a-F	Brigham City	Larsen, J. Stanford as-J-SS	Pocatello, Ida.
Kemp, Ellen ho-F	Logan	Larson, Jessie as-S	Preston, Ida.
Kendall, Afton c-So	Nephi	Larson, Keith P. as-F	Preston, Ida.
Kendall, Maureen as-F	Nephi	Larson, L. Waive a-So	Garland
Kendrick, Alda ed-So-SS	Providence	Larson, LaDell M. a-J	Logan
Kennard, G. Keith as-G	Logan	Larson, Lavon F. e-So	Logan
Kennard, L. H. as-F-SS	Logan	Larsen, LeMar c-S	Logan
Kennedy, Floyd SS	Randolph	Larson, Norman V. e-F	Garland
Kennedy, Herman H. c-So	Richmond	Larson, Olga E. SS	Smithfield
Kenner, Glenn R. c-J	Manti	Larsen, Paul B. c-S	Preston, Ida.
Kennington, Berniece SS	Afton, Wyo.	Larson, Preston as-So	Preston, Ida.
Ketchum, Clara as-F	Logan	Larsen, Rose ed-F	Newton
Ketsch, Roy J. c-So	Bacchus	Larson, Walter C. as-F	Mayfield
Khoubesserian, Hovhannes e-J	Cairo, Egypt	Lasley, Ruth N. ed-F	Grace, Ida.
		Laub, Rex SS	Fielding
Kidd, Loyd as-F	Logan	Lauritzen, Ephin R. c-J	Hill City, Ida.
Kilburn, Glen A. as-F	Morgan	Law, Howard E. c-J	Springville
Kilburn, Hyrum Parley SS	Logan	Law, Reuben D. ed-G	Randolph
Kimball, Ronda B. as-F	Logan	Lawrence, Clifford D. e-F	American Falls, Ida.
King, Betty ed-So	Malad, Ida.	Lawrence, George A. e-G	American Falls, Ida.
King, Carrall as-F	Marysvale	Lawrence, Lynn J. SS	Logan
King, Helen Mildred c-S-SS	No. Logan	Layton, Howard S. c-So	Logan
Kinghorn, Gerald E. SS	Sugar City, Ida.	Layton, Ruth A. as-F	Kaysville
Kinyon, Margaret E. a-J	Logan	Leatham, James J. c-F	Wellsville
Kirby, Cecil R. a-J	Hyde Park	Leatham, Lyndon J. SS	Wellsville
Kirk, Afton I. SS	Tooele	Lee, Elliot B. as-So	Paradise
Kirkendall, Earl W. SS	Pocatello, Ida.		
Kirkham, Phyllis ho-S-SS	Lehi		
Kloepfer, Lynn W. c-So	Providence		
Knapp, Clifford D. SS	Scobey, Mont.		

Lee, Orville S. as-J	Paradise	Malecek, Gertrude E. as-F	Ogden
Lee, Sabina L. c-S	Thatcher, Ariz.	Malmberg, Florence SS	Logan
Lee, Sherman W. c-F	Tooele	Malmberg, Jennie ed-F-SS	Logan
Lenkersdorfer, Beryl ho-J	Logan	Malmberg, Joseph P. SS	Clarkston
Lenkersdorfer, Jean as-F	Logan	Malmrose, Earl as-F-SS	Logan
Leonard, Ross as-J	Huntington	Mandry, James E. e-So	Malad, Ida.
LeRoy, Daniel a-So	Springville	Manning, Helen SS	Garland
Lewis, C. P. SS	Vernal	Manning, Rulon SS	Garland
Lewis, Elmer J. e-J	Logan	Manning, Wallace A. a-J	Ogden
Lewis, Phelps a-F	Klamath Falls, Ore.	Manwaring, Leonard H. a-So	Blackfoot, Idaho
Lewis, Phyllis c-So	Logan	Marble, LeRain a-G	Dewey
Lewis, Veneta c-F	Logan	Marble, Orlin G. as-J	Dewey
Lillywhite, Ray L. as-S-SS	Brigham City	Marksheffel, Ned D. a-S	Salt Lake City
Lindsay, Eldon T. as-F	San Francisco, Cal.	Marshall, Walter L. a-So	Randolph
Linford, DeVerl as-F	Afton, Wyo.	Martin, Anna SS	Samaria, Ida.
Linford, Jean H. as-S	Logan	Martin, Jay S. as-F	Elko, Nev.
Linford, LaRue H. c-S	Ogden	Martineau, Jess c-S	Logan
Linford, Ronald a-F	Ogden	Marrriott, Ralph J. ed-F	Soda Spgs., Ida.
Little, Edward W. a-F	Edin, Ida.	Mason, Herschel E. as-S	Pocatello, Ida.
Littlefield, Versa SS	Ogden	Matheson, Margaret ed-F	McGill, Nev.
Lloyd, Sherman P. c-So-SS	Rexburg, Ida.	Mathews, J. Dorsey as-F-SS	Logan
Lockyer, W. Theodore a-F	Firth	Matley, Mark SS	Coalville
Lohman, Bill c-F	Logan	Maughan, Harvey G. c-S	Wellsville
Longhurst, Irel L. e-So	Randolph	Maughan, Lemoine B. as-S	Wellsville
Loosle, Norman D. c-So	Clarkston	Maughan, Lois E. as-J	Logan
Low, Morris D. SS	Montpelier, Ida.	Maughan, Lyman P. e-So	Wellsville
Low, Virginia D. c-So	Providence	Maughan, Theodore R. c-S	Hyrum
Lowe, Clyde a-F	Hooper	Maughan, Wesley as-S	Wellsville
Lowe, George D. SS	Driggs, Ida.	Maurer, Robert a-F	Blackfoot, Ida.
Lowe, Ray D. a-So	Richfield	Maxwell, James P. SS	Peoa
Lowe, Sadie H. SS	Driggs, Ida.	May, J. Herbert a-So	Salt Lake City
Lowe, Sherman B. c-F	Grace, Ida.	McAllister, Burton J. a-So	Kanab
Lowe, T. Rex a-J	Richfield	McAllister, John H. a-J	Smithfield
Lowe, Wayne a-J	Willard	McBride, Claude D. ed-S-SS	Logan
Lucas, Veda R. ho-F	Logan	McCann, Albert F. as-F	Smithfield
Lucas, Vida M. ho-F	Logan	McCarrey, Rulon ed-F	Richmond
Luke, Floe ed-F	Tremonton	McClellan, Cyril E. as-So	Logan
Luke, Melroy C. ed-G	Provo	McClellan, Lincoln H. as-F	Logan
Luke, Wanda as-F	Kingston	McClun, George SS	Preston, Ida.
Lund, Henry V. a-F	Bountiful	McConkie, Andrew R. a-J	Moab
Lund, Merlin B. c-F	Logan	McConkie, G. Wilson e-J	Moab
Lund, Twilla c-S-SS	Logan	McConkie, John H. SS	Vernal
Lund, Willard H. SS	Pocatello, Ida.	McCowin, Mrs. A. L. ed-J	Logan
Lund, Yepa SS	Logan	McCracken, Bernice ed-So	Logan
Lundahl, Delas c-So	Logan	McCracken, Earl J. a-J	Ogden
Lundahl, Ernest W. c-F	Logan	McCracken, H. W. ed-So	Smithfield
Lundberg, Richard A. SS	Woods Cross	McCracken, Venna SS	Logan
Lundell, Harold M. SS	Vernal	McCulloch, Clyde G. a-J	Logan
Lundquist, Harold E. as-F	Smithfield	McDermid, Ferris a-J	Logan
Lunt, Loretta C. c-S-SS	Logan	McDonald, Helen D. ho-So	Ogden
Luthy, Roma ed-F	Preston, Ida.	McFarland, Seth B. a-J	Ogden
Lynn, William ed-F	Pasadena, Cal.	McIntyre, Grant W. SS	Price
Mabey, Joseph Jr. as-F	Clearfield	McLain, Charles W. SS	Hesperus, Colo.
MacArthur, Lea L. as-F	Ogden	McMahon, Virginia ed-So	Logan
Mackay, Mae ed-F	Salt Lake City	McMullin, Lucille c-S	Payson
Madison, E. John as-So	Spivey, Kan.	McNiel, Frank D. c-F	Logan
Madsen, David E. a-G	Logan	McQuarrie, Harlow B. e-S	Salt Lake City
Madsen, Donald E. a-F	Salt Lake City	McQuarrie, Robert c-V	Hyde Park
Madsen, Grace ed-So	Brigham City	McVicker, Helen ed-So	Ashton, Ida.
Madsen, Letha SS	Bloomington, Ida.	Meacham, James A. as-S	Logan
Madsen, Louise as-J	Paris, Ida.	Meadows, Melvin as-So	American Falls, Idaho
Madsen, Milton A. a-J	Manti	Meadows, Merle SS	American Falls, Ida.
Maeser, Earl SS	Weston, Ida.	Mealiff, Nelle SS	Ogden
Magleby, Russell H. SS	Monroe	Meldrum, Albert SS	Tremonton

Mendenhall, Arthur as-F.....	Richmond	Myers, Holley K. c-F.....	Riverton
Mendenhall, Vern C. SS.....	Springville	Naisbett, Jack L. SS.....	Logan
Merrifield, Marian H. SS.....	Portland, Mich.	Nash, Hazel as-F.....	Logan
Merrill, Dean R. a-J.....	Logan	Nate, Ruth ed-So.....	Montpelier, Ida.
Merrill, Donald G. as-F-SS.....	Logan	Neeley, Deta P. ed-G.....	Logan
Merrill, Elizabeth E. ho-F.....	Corinne	Neeley, Louis P. SS.....	Coalville
Merrill, Glacus G. SS.....	Richmond	Neeley, N. Glen ed-S.....	Tremonton
Merrill, Glenn W. SS.....	Preston, Ida.	Neilsen, Ray Leon c-F.....	Logan
Merrill, Hyrum Waldo as-So.....	Richmond	Nelson, A. G. a-J.....	Montpelier, Ida.
Merrill, Leah D. as-G.....	Logan	Nelson, Alfred N. a-G.....	Richmond
Merrill, Robert L. as-So.....	Logan	Nelson, Beth ho-F.....	Brigham City
Merrill, Theola ho-So.....	Richmond	Nelson, Carma as-F.....	Preston, Ida.
Metcalf, Beulah J. ed-So.....	Gunnison	Nelson, Delma ed-So.....	Clearfield
Metcalf, Lyman a-F.....	Springville	Nelson, Evan G. as-F.....	Ferron
Michaels, Charles C. a-S.....	Ogden	Nelson, Glen A. a-F.....	Ferron
Mickelson, Leon C. as-F.....	Gunnison	Nelson, Helen M. ho-S.....	Ogden
Middleton, Melba as-F.....	Cedar City	Nelson, Jesse G. as-S.....	Preston, Ida.
Mikkelsen, Margaret SS.....	Logan	Nelson, Karl G. e-S.....	Preston, Ida.
Milam, Glover M. SS.....	Hanna, Wyo.	Nelson, LaPreal ed-So.....	Mantua
Miles, Leonard e-F.....	Smithfield	Nelson, Leslie W. SS.....	Morgan
Miller, Alice L. as-F.....	Tremonton	Nelson, Mabel S. SS.....	Weston, Ida.
Miller, Fred K. SS.....	Victor, Ida.	Nelson, Mary H. as-S.....	Arimo, Ida.
Miller, Gerald G. c-J.....	Rexburg, Ida.	Nelson, Rasmus K. c-S.....	Logan
Miller, Margaret F. SS.....	Pocatello, Ida.	Nelson, Ray J. as-So.....	Corinne
Miller, Rilla Mae SS.....	Hyrum	Nelson, Virginia SS.....	Logan
Miller, Wendell S. as-F.....	Venice	Nelson, Wm. Herman ed-So.....	Woods Cross
Mills, Virgil SS.....	Park City	Nelson, Z. George a-So.....	Montpelier, Ida.
Miner, Merthyr L. a-So.....	Heiner	Nelson, Zula J. c-F.....	Logan
Mir, Lucille as-F.....	Durango, Colo.	Neuberger, L. Mark c-G-SS.....	Logan
Mitton, Lorenzo H. e-F-SS.....	Logan	Newey, Margaret ho-S-SS.....	Logan
Moench, Hortense SS.....	Logan	Nichols, Darwin D. SS.....	Amer. Falls, Ida.
Mollinet, Leo Clarence a-F.....	Brigham City	Nichols, Mark SS.....	Garland
Monson, Amy c-J.....	Richmond	Nichols, Warren D. e-V.....	Pocatello, Ida.
Monson, Ida Vee S. c-So-SS.....	Logan	Nielsen, Alta ed-F.....	Hyrum
Monson, J. H. c-J.....	Logan	Nielsen, Cantril SS.....	Hyrum
Monson, Norma SS.....	Downey, Ida.	Nielsen, Carl P. as-S.....	Carmangay, Can.
Monson, Vern I. as-J.....	Ogden	Nielsen, DeLora ed-So.....	Logan
Moore, Wm. G. c-S.....	Salt Lake City	Nielsen, E. Giles SS.....	Zumi, N. Mex.
Morby, James M. c-G.....	Coalville	Nielsen, Emma C. as-G.....	Hyrum
Morgan, Ann as-J.....	Malad, Ida.	Nielson, F. Ellis SS.....	Zumi, N. Mex.
Morgan, Beulah c-J.....	Paris, Ida.	Nielsen, Floyd W. e-F.....	Hyrum
Morgan, Elmo R. e-J.....	Paris, Ida.	Nielsen, Gayle D. c-So.....	Logan
Morgan, Floyd T. as-J.....	Logan	Nielsen, H. Eugene e-So.....	Hyrum
Morgan, George C. SS.....	Logan	Nielsen, Harold M. as-S.....	Hyrum
Morgan, Margaret as-F.....	Logan	Nielsen, Howard C. c-F.....	Logan
Morgan, Ray SS.....	Tooele	Nielsen, Jay C. as-So.....	Burley, Ida.
Morrell, Hattie SS.....	Hyde Park	Nielsen, John P. as-S.....	Logan
Morrell, Wm. E. as-S.....	Logan	Nielsen, Robert D. a-J.....	Ephraim
Morrill, Eugene L. SS.....	Tooele	Nielsen, Vincent c-F.....	Logan
Morris, Clyde H. ed-J.....	Brigham City	Nilsson, Ivy as-So.....	Heber
Morris, Edward H. a-J.....	Brigham City	Noe, Albertine A. ho-G.....	Decorah, Iowa
Morris, Muriel as-J.....	Logan	Norr, Myrl A. SS.....	Deweyville
Morrison, Anna ho-F.....	Preston, Ida.	Norris, Carl L. e-F.....	Randolph
Morrison, Luey as-S.....	Preston, Ida.	Norris, Cleve a-So.....	Randolph
Morrison, Marriner M. c-S.....	Tremonton	Norris, Dwain W. a-S.....	Randolph
Moser, Kenneth A. c-G-SS.....	Bancroft, Ida.	Norris, Thomas D. SS.....	Paradise
Muir, Joseph a-J.....	Heber	Nye, Faye SS.....	Garland
Muir, K. E. SS.....	Randolph	Nye, George O. SS.....	Garland
Mulliner, Frances c-So.....	Salt Lake City	Nyman, Rodney S. a-J.....	No. Logan
Mulliner, Miriam ed-So.....	Salt Lake City	Oakes, LeRoy V. a-G.....	Vernal
Munk, Mildred V. ho-So.....	Georgetown, Ida.	Oberhansley, Verne SS.....	Ogden
Munns, Ruth ed-F.....	Tremonton	Obroy, Elmer H. SS.....	Paradise
Murphy, Jack as-So.....	Logan	Obroy, Verda ho-F.....	Paradise
Murray, Mabel S. ho-F-SS.....	Logan		
Myers, George a-V.....	Salt Lake City		

Ogden, J. A. e-F.....	Logan	Pear, Mildred as-So.....	Logan
Oldham, Edna ho-So.....	Paradise	Pedersen, Edna SS.....	Logan
Olson, Alfrida SS.....	Richmond	Pedersen, Peter A. C. SS.....	Logan
Olson, Arthur K. c-F.....	River Heights	Pedersen, Trix as-So.....	Logan
Olson, Bernice ed-F.....	Logan	Pedersen, Troy ho-So.....	Logan
Olson, Carl F. e-So.....	Hyrum	Pence, Nina ed-F.....	Ogden
Olson, Clarice ed-So.....	Logan	Pendleton, John H. SS.....	Parowan
Olson, G. LeGrand a-S.....	Preston, Ida.	Penrod, Marion H. as-J.....	Ogden
Olson, Leah as-J.....	Logan	Perkes, May SS.....	Hyde Park
Olson, Margaret ho-So.....	Pleasant Grove	Perkins, W. Wendell SS.....	Smithfield
Olsen, Nolan P. ed-G.....	Logan	Perry, Beth SS.....	Hyrum
Olson, Paul S. as-F.....	Logan	Perry, Clarence C. ed-F.....	Deweyville
Olson, Ross L. c-J.....	Logan	Perry, Ellis M. e-S.....	Deweyville
Olson, Ruth SS.....	Logan	Perry, Gaye ho-So.....	Logan
Orme, W. Rollo SS.....	Nephi	Perry, Norman L. SS.....	Deweyville
Osborne, Wallace W. ed-S.....	Minersville	Perry, Zada c-F.....	Logan
Osmond, Joseph C. as-So.....	Logan	Peters, Lila as-S.....	Brigham City
Ostler, Elda L. ed-F.....	Nephi	Peterson, Alton H. e-So.....	Logan
Owen, Fred B. c-So.....	Logan	Peterson, Anna Lou as-F.....	Richfield
Owen, Virgil E. e-V.....	Preston, Ida.	Peterson, Arvid a-So.....	Logan
Owens, Richard W. as-So-SS.....	Logan	Peterson, Claire as-So.....	Logan
Owens, Ruth as-F-SS.....	Logan	Peterson, Clark L. SS.....	Hyrum
		Peterson, Conrad R. e-V.....	Petersboro
Pack, Bessie SS.....	Logan	Peterson, Cornelia ho-F.....	Vernal
Packer, Elmo c-So.....	Franklin, Ida.	Peterson, Dean F., Jr. e-J.....	Delta
Packer, Helen ed-So.....	Preston, Ida.	Peterson, Dean Freeman ed-G.....	Delta
Packer, J. Lyman c-So.....	Logan	Peterson, Delbert A. a-F-SS.....	Logan
Packer, Lee P. ed-G.....	Logan	Peterson, Edwin M. as-So.....	Smithfield
Packer, Thane as-F.....	Fielding	Peterson, Elsie ho-F.....	Ogden
Page, Edna ho-J.....	Payson	Peterson, Elwin H. as-G.....	Firth, Ida.
Palmer, Elva as-J.....	Logan	Peterson, Elwyn F. as-F.....	Smithfield
Palmer, Merlin C c-J.....	Preston, Ida.	Peterson, Eugene G. SS.....	Logan
Palmer, N. Revier SS.....	Logan	Peterson, Francis M. a-S.....	Newton
Palmer, W. Horace a-J.....	Milford	Peterson, Harold M. SS.....	Logan
Parish, Elmo R. SS.....	Burley, Ida.	Peterson, Helen as-F.....	Logan
Parker, Frank R. as-F-SS.....	Wellsville	Peterson, Henry E. as-F.....	Hinckley
Parker, Laura Lee ed-G.....	Logan	Peterson, Homer as-F.....	Hinckley
Parker, Lorenzo R. SS.....	Pegram, Ida.	Peterson, Howard a-F.....	Firth, Ida.
Parker, Raymond SS.....	American Fork	Peterson, Howard E. e-S.....	Brigham City
Parker, Virgie A. SS.....	Rupert, Ida.	Peterson, Irene as-S-SS.....	River Heights
Parkinson, Albert M. ed-F.....	Franklin, Ida.	Peterson, John H. c-J.....	Pocatello, Ida.
Parkinson, Ernest W. as-G.....	Wellsville	Peterson, Juana ed-So.....	Richfield
Parkinson, Lucille H. as-F.....	Logan	Peterson, Lea ed-S.....	Richfield
Parkinson, Marianna H. as-F.....	Logan	Peterson, Lorenzo E. e-So.....	Richfield
Parkinson, Reid W. as-F.....	Wellsville	Peterson, Lorin M. SS.....	Sterling
Parkinson, Seth M. a-S.....	Rexburg, Ida.	Peterson, Lyman M. a-J.....	Mt. Pleasant
Parkinson, Virginia C. ed-So.....	Franklin, Ida.	Peterson, Marene SS.....	Newton
Parr, Paul W. c-So.....	Riverton	Peterson, Marian ho-S.....	Ogden
Parrish, Barnard D. c-S.....	Centerville	Peterson, Marie SS.....	Smithfield
Parrish, E. Grant as-S.....	Centerville	Peterson, Norma c-So.....	Smithfield
Parrish, Joseph F. a-S.....	Farmington	Peterson, Ray K. as-F.....	Newton
Parry, Charles SS.....	Salt Lake City	Peterson, Roy as-F.....	Logan
Parry, J. Herbert a-So.....	Salt Lake City	Peterson, Ruth ho-J-SS.....	Logan
Parsons, Harold c-J.....	Milford	Peterson, Ruth SS.....	Logan
Partington, Arthur as-So.....	Logan	Peterson, Thornton W. c-J.....	Hyrum
Passey, Earl F. SS.....	Ovid, Ida.	Peterson, Utahna C. ho-So.....	Preston, Ida.
Patrick, Erroll A. SS.....	Ogden	Peterson, Vic E. as-So-SS.....	Logan
Patterson, Norma ho-F.....	Heyburn, Ida.	Peterson, Violet A. SS.....	Smithfield
Paxton, Genevieve c-F.....	Kanosh	Peterson, Waldo J. a-G-SS.....	Brigham City
Payne, Truman a-F.....	Bloomington, Ida.	Peterson, Wanda H. ho-J.....	Logan
Pearson, Dwain J. a-J.....	Marysvale	Peterson, Wayne B. a-F.....	Hinckley
Pearson, Essie N. SS.....	Hanna, Wyo.	Peterson, Wm. Don as-J-SS.....	Logan
Pearson, Harriet M. ho-F.....	Oakley	Peterson Woodrow W. a-F.....	Richmond
Pearson, Marden D. a-F.....	Marysvale	Petterson, Florence M. SS.....	Garland
Pearson, Margaret ed-G.....	Brigham City	Petty, Clio M. as-F.....	Nephi

Petty, Lois L. ed-S.....	Nephi	Rawlins, Junior as-F.....	Lewiston
Petty, Norma ho-J.....	Cedar City	Ray, Nellie as-S-SS.....	Gilbert, Ariz.
Phillips, Ben F. as-J.....	Kaysville	Raymond, G. Frank ed-J.....	Smithfield
Phillips, Evans J. SS.....	Roosevelt	Reading, Harold E. SS.....	Cokeville, Wyo.
Phillips, Ivan G. SS.....	Smithfield	Redd, John DeMar a-So.....	Blanding
Pickett, Louisa SS.....	Burley, Ida.	Redd, L. Burton c-F.....	Blanding
Pierce, Myrtle as-J.....	Ogden	Redden, Merrill G. c-V.....	Devils Slide
Piranian, George a-F.....	Salt Lake City	Reed, Jane G. as-J.....	Salt Lake City
Pitzer, John H. as-G-SS.....	Logan	Reeder, Elaine SS.....	Brigham City
Plant, Ross H. c-So.....	Richmond	Reeder, Hope as-G.....	Corinne
Plowman, Leah M. SS.....	Smithfield	Reeder, Jesse W. c-J.....	Brigham City
Plowman, Melba L. SS.....	Smithfield	Reeder, Ray as-So.....	Corrinne
Plumb, Alma J. a-S.....	St. David, Ariz.	Reeder, Wendell as-G.....	Hyde Park
Pocock, Marilyn as-S.....	Sugar City, Ida.	Reeder, William W. as-So.....	Brigham City
Pollard, Leonard a-G.....	Emmett, Ida.	Rees, Doyle ed-G.....	Benson
Pond, Chase G. a-F.....	Grace, Ida.	Rees, Vincent L. as-So.....	Smithfield
Pond, Howard M. as-J.....	Logan	Reese, Edith ed-So-SS.....	Samaria, Ida.
Pond, Jay SS.....	Island Park, Ida.	Reese, Ether N. ed-S.....	Logan
Poole, Margaret ed-F.....	Preston, Ida.	Reese, Evelyn F. c-F.....	Samaria, Ida.
Porges, Myron, Jr. SS.....	Pocatello, Ida.	Reese, John W. a-F.....	Tooele
Porter, Alese as-F.....	Logan	Reese, Leona SS.....	Samaria, Ida.
Porter, Earl SS.....	Annabella	Reeve, Russell E. c-F.....	Ogden
Porter, Lyle R. e-F.....	Logan	Reeves, Vaunda L. c-V.....	Auburn, Wyo.
Porter, Theron a-F.....	Logan	Reid, Eldon S. c-J.....	St. George
Porter, Vivian SS.....	Logan	Reid, F. Horace SS.....	Orangeville
Postma, Vean c-So.....	Smithfield	Reid, Lucian C. a-J.....	Manti
Potter, Ainslie C. SS.....	American Falls, Ida.	Reid, Max P. c-F.....	Logan
Poulsen, Eva ed-J.....	Petersboro	Reid, Phyllis ho-J.....	Nephi
Poulsen, Tilda as-J.....	Petersboro	Remund, Clive O. SS.....	Midway
Poulter, Eloise ed-So-SS.....	Logan	Remund, George a-So.....	Heber City
Poulter, Spencer R. SS.....	Logan	Rencher, Ray as-F.....	Downey, Ida.
Powelson, Stanley B. a-F.....	Goshen	Rex, Fred S. ed-F.....	Logan
Powell, A. John SS.....	Beaver	Reynolds, Edwin A. a-S.....	Rexburg, Ida.
Pratt, Alma e-J-SS.....	Salt Lake City	Reynolds, Elwin W. a-S.....	Rexburg, Ida.
Pratt, Claud H. c-J.....	Hinckley	Reynolds, Tracy S. e-So.....	Moore, Ida.
Preator, Frederick e-V-SS.....	Logan	Rhoades, Edna E. SS.....	Logan
Preator, Earl SS.....	Salt Lake City	Rhodes, Alva Keith c-F.....	Garland
Preston, William B. c-So.....	Logan	Rice, Moyle as-F.....	Logan
Price, Alvera M. ed-J.....	Paris, Ida.	Rich, C. Carlyle e-S.....	Brigham City
Price, Alys ho-F.....	Logan	Rich, Eugene SS.....	St. Charles, Ida.
Price, Asael W. ed-J-SS.....	Fielding	Rich, Harvey N. SS.....	Morgan
Price, Florence ed-S.....	Logan	Rich, Homer R. SS.....	Brigham City
Price, Kathleen SS.....	Salt Lake City	Rich, Lorenzo as-J.....	Logan
Price, Lessie ed-G-SS.....	Paris, Ida.	Rich, Lothaire R. ed-S.....	Logan
Price, Minnie ed-F.....	Logan	Rich, Lowell R. e-S.....	Brigham City
Price, Verla ed-F.....	Paris, Ida.	Rich, Lyle M. a-F.....	Paris, Ida.
Pugh, C. Duffin as-J.....	Kanab	Rich, Nada ed-So.....	Logan
Pugmire, Alice ed-So.....	Paris, Ida.	Rich, Oreta K. ed-F.....	St. Charles, Ida.
Pugmire, Helen ed-So.....	Paris, Ida.	Rich, Vernon B. e-F.....	Garden City
Pulley, Alfred M. a-F.....	Price	Richards, B. Lorin a-So.....	Logan
Pulley, Boyd H. as-S.....	Logan	Richards, Helen ho-So.....	Logan
Pulsipher, Will J. SS.....	Richmond	Richards, Ivan Ford e-J.....	Garland
Pyper, Glen G. a-J.....	Heber	Richards, Lorraine ed-So.....	Logan
Quinney, Edward G. c-F.....	Logan	Richards, Louise as-F-SS.....	Logan
Quinney, Grant c-So.....	Logan	Richards, Margaret a-S.....	Logan
Quinney, John T. as-F-SS.....	Logan	Richards, Mathias C. a-G.....	Brigham City
		Richards, Melvin M. as-F.....	Richmond
		Richards, Phyllis ho-F.....	Garland
		Richards, Sterling J. SS.....	Brigham City
Rahman, H. Abdur e-S.....	Punjab, India	Richardson, Joyce c-J.....	Logan
Randall, Kermit E. as-J.....	Ogden	Richardson, Vernon L. SS.....	Thatcher, Ariz.
Randall, Leslie E. a-J.....	Ogden	Rigby, Don C. c-F.....	Logan
Rapp, Velda c-F.....	Logan	Rigby, Vera ed-F.....	Newton
Rasmussen, Floyd D. ed-F.....	Mantua	Riley, Clifford W. a-S.....	Rexburg, Ida.
Rasmussen, Violet S. ed-So.....	Logan	Rippon, Frank E. e-S.....	Coalville
Rauzi, Ernest as-S.....	Ogden	Ririe, Margaret as-F.....	Lewiston

Ririe, Rebecca as-S	Ogden	Scholes, Harold B. c-F	Logan
Ritchie, Fern c-F	Logan	Scholes, J. Fred a-J	Logan
Ritchie, Ursula as-F	Logan	Scholes, William a-F	Logan
Riter, Kersey C. SS	Logan	Schott, Fred W. c-J	Ogden
Robbins, Max A. as-F	Logan	Schow, Idona R. SS	Logan
Roberts, Daryl L. e-So	Delta	Schow, Iris SS	Mantua
Roberts, Fred SS	Logan	Schow, Rodney ed-So	Mantua
Roberts, Helen H. SS	Soda Springs, Ida.	Scoffield, Golden F. a-J	Kaysville
Roberts, Louie C. as-SS	Whiterocks	Scoffield, Cornell SS	St. Charles, Ida.
Roberts, Louis A. ed-F	Vernal	Scott, Brigham D. SS	Logan
Roberts, Vera ed-F	Gunnison	Scott, Jewel J. ed-F	Logan
Robertson, Doyle a-F	Ftn. Green	Scott, Mary E. ed-So-SS	Logan
Robertson, Wanda ed-F	Ftn. Green	Scott, Mary F. SS	Pioche, Nev.
Robinette, Martin L. as-So	Brigham City	Seager, C. Austin as-F	Tremonton
Robinson, Clayton H. as-J	Laketown	Seager, Fay SS	Ogden
Robinson, Donald as-F	Logan	Searle, Vernon SS	Salt Lake City
Robinson, Earle W. c-J	Logan	Seely, A. Elwyn ed-So	Willard
Robinson, J. Graydon a-S	Kanab	Seely, Hugh a-So	Castle Dale
Robinson, Julian L. as-F	Richmond	Sessions, LaMar ed-F	Syracuse
Robinson, Phebe SS	Providence	Sevy, Jess L. SS	Salt Lake City
Robinson, Thomas D. a-So	Parowan	Sharp, Maxine as-F	Coalville
Robison, Birdie I. ed-So	Kaysville	Shaw, Byron T. SS	Logan
Rogers, Dalles SS	Kanosh	Shaw, David Glen ed-J	Ogden
Rohner, Walter ed-So	Logan	Shaw, Lucy L. ho-V	Logan
Rohrer, A. Lamont a-So	Elko, Nev.	Shaw, Marilyn c-F	Logan
Rolfsen, Marten e-F	Logan	Shaw, Seth a-G	Provo
Rollins, Dell J. a-G	Mesa, Ariz.	Sheffield, Phyllis ho-F	Logan
Romney, Elwood S. SS	St. George	Shepard, Idalham M. SS	Logan
Romney, Miles C. as-So	Logan	Shepard, Joseph E. c-S-SS	Logan
Roper, Melvin J. e-S	Oak City	Shepherd, Max J. SS	Brigham City
Rose, Cora L. SS	Hyrum	Shepherd, Ruth ed-S	Logan
Rose, Ford T. c-F	Logan	Shields, Ray M. SS	Tooele
Rose, Ora L. as-F	Logan	Shields, Stewart F. a-So	Lethbridge, Can.
Rose, Virginia as-So	Franklin, Ida.	Shiffman, Erma L. SS	Logan
Rose, Virginia M. c-J	Ogden	Shibley, Fern ho-S-SS	Franklin, Ida.
Roskelley, Favell ho-F	Smithfield	Shibley, Mark A. a-F	Honeyville
Roskelley, Lowell J. a-J	Brigham City	Shuldberg, Elva Mae ed-F	Preston, Ida.
Roskelley, R. Welling c-G	Smithfield	Shuldberg, Howard e-F	Preston, Ida.
Roskelley, Rigby C. as-So	Brigham City	Shurtz, Oneta K. SS	Garland
Roskelley, Ruth ho-So	Smithfield	Sill, Milton C. a-S	Logan
Ross, George SS	Park City	Silvester, John A. ed-J-SS	Rexburg, Ida.
Ross, June c-J	Logan	Simmonds, Arthur C. SS	Cornish
Ross, Robert W. as-F	Logan	Simmons, Carl as-F	Garfield
Ross, Roy c-SS	Richfield	Simmons, Christa Ann c-F	Spanish Fork
Roundy, Zola Doyle SS	Escalante	Simmons, Derold L. SS	Helper
Rowe, Paul W. SS	McCammion, Ida.	Simmons, Lawrence B. a-F	Spanish Fork
Rowland, Ivan W. as-G	Pocatello, Ida.	Simmons, Richard W. SS	Park City
Roylance, Kay SS	Salt Lake City	Simpson, Norman H. as-So	Logan
Rundquist, Eric A. a-F	Midvale	Simpson, Ruth SS	Logan
Ryan, J. Stewart c-So	Logan	Sims, Archie ed-S	Mantua
Ryan, Miller M. c-So	Logan	Singleton, Geniel ed-F	Ferron
		Singleton, Marie ed-S	Vernal
		Singleton, Roma ed-So	Ferron
Sainsbury, N. Leroy e-V	Bountiful	Sinrud, Gordon E. SS	Fernwood, Ida.
Sandberg, June ed-So	Huntington	Sjoberg, Morris B. a-So	Millville
Sanders, Vilate ed-So	Farmington	Skeen, LaRae ed-So	Salt Lake City
Sant, Elizabeth T. ed-So	Clifton, Ida.	Skidmore, William W. as-J	Logan
Sant, Franklyn R. a-F	Clifton, Ida.	Skinner, Halver M. e-So	Logan
Sant, Paul T. a-S	Clifton, Ida.	Skinner, J. F. SS	Spanish Fork
Sargent, David L. SS	Cedar City	Skinner, Marion S. a-J	Logan
Saunders, Deverl SS	Ogden	Slaugh, Grace ed-F	Vernal
Schaub, Howard A. ed-J	Logan	Smalley, Dorothy L. SS	Cokeville, Wyo.
Schaub, Leland S. e-F	Logan	Smith, Byron J. SS	Logan
Scheby, Vera as-S-SS	Logan	Smith, Clarence E. SS	Garland
Schmidt, Eric R. e-V	Logan	Smith, Clinton P. as-So	Garland
Schoenfeld, Walter E. as-S	Provo		

Smith, Clyde F. ed-So.....	Providence	Spencer, LeGrand D. as-So.....	Logan
Smith, Clyde L. a-So.....	Logan	Spencer, Lilly Pearl SS.....	Logan
Smith, Dasil C. SS.....	Park City	Spencer, Mondell ed-So.....	Logan
Smith, Dean R. a-F.....	Logan	Spicker, Mary as-F.....	Logan
Smith, DeWitt C. SS.....	Pleasant Grove	Spillman, Camilla as-So.....	Logan
Smith, Edith D. SS.....	Logan	Spillman, F. L. SS.....	Garland
Smith, Edna ho-G.....	Logan	Spongberg, Mary ho-S.....	Preston, Ida.
Smith, Eldred E. c-So.....	Logan	Spongberg, Ruth ed-J.....	Preston, Ida.
Smith, Eliot W. e-F.....	Preston, Ida.	Squires, Henry B. as-F.....	Logan
Smith, Farrell P. SS.....	Kaysville	Stacey, John L. SS.....	Bountiful
Smith, George L. as-F.....	Richmond	Stagg, Leah ho-F.....	Pleasant Grove
Smith, Gwen H. as-S-SS.....	Logan	Stallings, Ann as-S.....	Eden
Smith, John P. SS.....	Logan	Stanley, Lowell E. ed-S.....	Miles City, Mont.
Smith, Kate SS.....	Logan	Starr, Warren A. a-S.....	Springville
Smith, Lowell C. SS.....	Park City	States, George W. c-F.....	Preston, Ida.
Smith, Luther Y. as-F.....	Logan	Stauffer, Arlene ed-J.....	Willard
Smith, Max e-So.....	Logan	Stauffer, Clifford as-J.....	Mendon
Smith, Merlin a-So.....	Richmond	Stauffer, Maxine ho-So.....	Mendon
Smith, Merlin W. c-So.....	Logan	Steadman, Lee a-F.....	Logan
Smith, Norman Y. as-V.....	Logan	Stebbins, Alice I. SS.....	Gothenburg, Nebr.
Smith, Oleen Bryson a-So.....	Logan	Steele, John H. e-J.....	Delta
Smith, Phoebe R. SS.....	Ogden	Stephens, Lloyd T. a-F.....	Henefer
Smith, Phyllis SS.....	Smithfield	Stephenson, Ada SS.....	Holden
Smith, Roberta as-F.....	Logan	Stephenson, Anthony W. a-So.....	Delta
Smith, Ruth c-SS.....	Logan	Stephenson, Helen E. ho-F.....	Delta
Smith, Stratford J. ed-So.....	Logan	Stephenson, Ina ed-F.....	Delta
Smith, Victor D. e-F.....	Beaver	Stephenson, Mabel ho-F.....	Holden
Smith, Vivian c-So.....	Salt Lake City	Stettler, Josephine ho-F.....	Logan
Smith, Wayne as-F.....	Smithfield	Stevens, Afton ho-S.....	Holden
Smith, Wendell E. a-V.....	Logan	Stevens, Alta c-F.....	Woods Cross
Smith, Wendell H. e-F.....	Preston, Ida.	Stevens, Frank SS.....	Brigham City
Smout, Joseph E. ed-F.....	Preston, Ida.	Stevens, Guy P. a-G.....	Oakley, Ida.
Smuin, Roy D. as-F.....	Downey, Ida.	Stevens, Hazel J. SS.....	Mantua
Snedden, Henry D. as-J.....	Ogden	Stevens, J. Magnus SS.....	Logan
Snow, Bessie SS.....	Pine Valley	Stevens, Lenore ed-So.....	Holden
Snow, Claude L. SS.....	Standardville	Stevens, Marjorie c-F.....	Oakley
Snow, Murray E. SS.....	Salt Lake City	Stevens, Thomas O. SS.....	Park City
Somera, M. S. c-S-SS.....	Philippine Is.	Stewart, Clyde E. a-So.....	Ogden
Somers, G. Fred a-So.....	Garland	Stewart, Ernest I. as-So-SS.....	Logan
Sonne, Faye as-So.....	Logan	Stewart, Gracia SS.....	Logan
Sonne, J. Dean c-J-SS.....	Logan	Stewart, Jean P. ho-F.....	Brigham City
Sonne, Richard B. c-J-SS.....	Logan	Stewart, John a-J.....	Salt Lake City
Sorensen, A. Forrest a-G.....	Burns, Wyo.	Stewart, Kenneth J. as-So.....	Logan
Sorensen, Carl Wm. a-So.....	Logan	Stewart, Miriam as-J-SS.....	Logan
Sorensen, Charles C. as-F-SS.....	Logan	Stock, Eldon M. e-S.....	Logan
Sorensen, Keith E. a-F.....	Salt Lake City	Stock, Montana G. as-J-SS.....	Logan
Sorensen, Lawrence J. SS.....	Logan	Stock, Orville E. a-S.....	Logan
Sorensen, Lewis SS.....	Redmond	Stoddard, Carl B. SS.....	Lewiston
Sorensen, Lillian E. ho-F.....	Logan	Stoddard, Edith c-So.....	Richmond
Sorensen, LuZelle c-S.....	Malad, Ida.	Stoddard, Nedra SS.....	Lewiston
Sorensen, Mary E. SS.....	Logan	Stoffers, Fred K. as-J-SS.....	Logan
Sorensen, Uarda ed-So.....	Mantua	Stoker, Golden L. a-G.....	Clearfield
Sorensen, Wallace as-F.....	Logan	Stoker, Lola L. ed-So.....	Clearfield
Soulier, Wesley D. a-F.....	Provo	Stokes, Victor N. a-So.....	Ogden
South, Elmer G. c-F.....	Logan	Stone, Ernest C. as-F.....	Ely, Nev.
South, Ramona ed-F.....	Logan	Stott, C. Orval SS.....	Logan
Spackman, Lavell J. as-So.....	Richmond	Stout, Beulah c-J-SS.....	Logan
Sparks, Don C. c-S.....	Logan	Stout, Eunice SS.....	Logan
Sparks, Lillian A. SS.....	Logan	Stratford, Reba ho-So.....	Brigham City
Sparks, Marvin L. SS.....	Newton	Straw, E. Alva SS.....	Casper, Wyo.
Sparrow, James D. a-F.....	Smithfield	Stringham, Hellen ho-F.....	Bountiful
Spencer, Barbara E. ho-F.....	Evanston, Wyo.	Stuart, Bruce P. as-So.....	Amer. Falls, Ida.
Spencer, Farrell J. as-J.....	Logan	Stucki, Leon G. e-F.....	Logan
Spencer, G. Elwood a-S.....	Murray	Summerhays, John W. SS.....	Salt Lake City
Spencer, Kenneth c-F.....	Murray	Sumson, Jesse C. c-S.....	Prove
		Sutton, D. Wright c-S.....	Logan

Swainston, Wilma ed-J.....	Preston, Ida.	Tippetts, Leila SS.....	Morgan
Swalberg, Fred A. a-S.....	Marysvale	Titensor, Roscoe SS.....	Logan
Swapp, Addie L. ed-S-SS.....	Logan	Tobler, Donald SS.....	Bunkerville, Nev.
Swapp, Iris as-F-SS.....	Logan	Todd, Alice J. ho-S.....	Salt Lake City
Swenson, Anna May as-J-SS.....	Logan	Tolman, Bion a-G.....	Logan
Swenson, Leon H. a-So.....	Spanish Fork	Tolman, Inez A. ed-So.....	Murtaugh, Ida.
Swenson, Mont a-F.....	Spanish Fork	Tolman, Jay W. as-J.....	Twin Falls, Ida.
		Tolman, Joyce SS.....	Richmond
Taggart, Beulah ho-G.....	Lewiston	Tolman, Ralph W. ed-So.....	Tremonton
Taggart, Glen L. as-F.....	Lewiston	Tollstrup, Duane as-F.....	Gunnison
Taggart, Nat. M. a-S.....	Ogden	Topham, Marlo SS.....	Parowan
Talbot, Wilburn ed-So.....	Lewiston	Torbensen, Elden as-S-SS.....	Logan
Talich, Paul H. SS.....	Bristow, Nebr.	Torgesen, Kingsley C. c-F.....	Ogden
Tanner, Elden S. c-So.....	Logan	Torgesen, Eloise N. as-F.....	Logan
Tarbet, Ione c-S-SS.....	Logan	Torgesen, George F. c-S.....	Logan
Tasso, Eleonora J. SS.....	Clifton, Ida.	Tout, Glen M. c-So.....	Smithfield
Taylor, Allen a-J.....	Ogden	Tovey, Morgan E. a-F.....	Logan
Taylor, C. William c-J.....	Ogden	Tremelling, Veda as-S.....	Lorenzo, Ida.
Taylor, Harold D. a-F.....	Ogden	Tripp, Lyle a-F.....	Richmond
Taylor, Lawrence C. a-F.....	Ogden	Tucker, Bert H. a-J.....	Salt Lake City
Taylor, Lowell J. SS.....	Idaho Falls, Ida.	Tucker, Ned A. a-F.....	Fairview
Taylor, Venice ed-So.....	Brigham City	Tuft, Dean W. a-So.....	Monroe
Terry, Loren J. SS.....	Morgan	Tuttle, Eugene K. a-So.....	Manti
Terry, William H. SS.....	Hyrum	Tygeron, DeVon a-F.....	Salt Lake City
Teuscher, Charles H. SS.....	Montpelier, Ida.	Tyson, Ross S. c-J.....	Logan
Tew, Klea ed-F.....	Shelley, Ida.		
Tew, Merlene ho-So.....	Mapleton	Van Buren, Gordon a-S.....	Ogden
Thatcher, Lynn M. e-S.....	River Heights	Van Kampen, Rudy L. ed-J.....	Ogden
Thatcher, Roma ed-So.....	Logan	Van Noy, Fawn SS.....	Preston, Ida.
Thatcher, Theodore O. as-S.....	River Heights	Vanschaar, Ben H. ed-J.....	Ogden
Theurer, Barbara as-J.....	Tremonton	Vickers, Vallon S. SS.....	Logan
Theurer, Beth c-F.....	Providence	Vickers, Verdona as-So.....	Logan
Theurer, Clark c-J.....	Providence	Vranes, John as-S.....	Lark
Theurer, Ray c-F.....	Providence		
Theurer, Reed c-J.....	Providence	Wacker, Eva R. SS.....	Ogden
Thomas, Clyde L. a-S-SS.....	Logan	Wadley, Gertrude ed-So.....	Ogden
Thomas, Florence as-So.....	Logan	Wadley, Merlyn a-F.....	Pl. Grove
Thomas, H. Ward as-So.....	Malad, Ida.	Wadley, Reif SS.....	Pl. Grove
Thomas, Leota c-F.....	Malad, Ida.	Wadsworth, Carrol L. SS.....	Logan
Thomas, Wylie L. as-G.....	Logan	Wadsworth, Fern SS.....	Pocatello, Ida.
Thompson, Alice D. SS.....	Soda Springs, Ida.	Wadsworth, Gwendolyn as-F.....	Logan
Thompson, Earl L. as-V.....	Weiser, Ida.	Wadsworth, Harold M. SS.....	Logan
Thompson, Evan C. a-J.....	Ephraim	Wadsworth, James D. a-S.....	Logan
Thompson, Fred H. c-F.....	Logan	Wagstaff, Louise ho-So.....	Mt. Pleasant
Thompson, Jesse L. SS.....	Clarkston	Waite, Victor W. ed-F.....	Smithfield
Thompson, Lloyd E. SS.....	Soda Springs, Ida.	Waite, Wilda ho-F.....	Clearfield
Thomson, Lester S. e-F.....	Logan	Wakley, Mildred as-So.....	Logan
Thomson, Maurine J. ho-S.....	Ephraim	Waldron, Reed c-S.....	Tremonton
Thorne, D. Wynne as-S.....	Brigham City	Walker, Afton H. ho-S-SS.....	Logan
Thornley, Beatrice G. ed-So.....	Smithfield	Walker, Faye as-F.....	Salt Lake City
Thornley, Gwendella SS.....	Smithfield	Walker, LaMar a-V.....	Salt Lake City
Thornley, Melba M. as-S.....	Kaysville	Walker, R. Spencer ed-G.....	Ogden
Thornock, Clarence S. a-S.....	Logan	Walker, W. Lawrence c-V.....	Salt Lake City
Thornock, Edna as-F.....	Logan	Wallace, Clara as-So.....	Preston, Ida.
Thornock, Ellen ed-So.....	Logan	Walter, Noall as-So.....	Salt Lake City
Thornock, Fay E. a-J.....	Logan	Walters, Barbara SS.....	Rock Springs, Wyo.
Thornock, Lamont W. ed-F.....	Logan	Walters, Jesse R. a-S.....	Rexburg, Ida.
Thorson, Clifford e-J.....	Bear River City	Walters, LeRoy F. e-S.....	Rexburg, Ida.
Thorson, DeLoris as-S-SS.....	Bear River City	Wangsgard, Dee F. e-F.....	Huntsville
Thueson, Ivan O. a-J-SS.....	Logan	Wangsgard, Vivian ho-J.....	Logan
Timmins, Joseph ed-So.....	Smithfield	Wann, Elizabeth SS.....	Logan
Tingey, Delmar C. a-G-SS.....	Logan	Ward, Edna Mae ed-F.....	Riverside
Tingey, Grace V. c-So.....	Logan	Ward, Edward D. SS.....	Willard
Tippetts, Jean as-F.....	Logan	Ward, Elmer H. a-So.....	Willard
		Ward, Elmo V. ed-J.....	Bloomington, Ida.

Ward, Frank SS	Parowan	Whiting, Jack C. as-F	Mapleton
Ward, Glen J. SS	Liberty	Whitlock, Cleo G. ed-S	Mayfield
Ward, LaVell G. as-So	Bloomington, Ida.	Whitmore, M. Ray SS	Price
Ward, Owen W. as-G	Willard	Whittle, Cyril Monroe ed-S	Preston, Ida.
Ward, Ralph P. ed-F	Willard	Whittemore, Nolan N. a-So	Bountiful
Ward, Sylvia as-S	Brigham City	Whornham, George a-G	Beaver
Ward, William G. ed-J	Logan	Wilcox, Bessie ho-So	Layton
Wardell, Clayton D. ed-F	Murray	Wilcox, Harold B. as-F	Kaysville
Warnick, Charles W. a-So	Pl. Grove	Wilcox, Helen ho-F	Layton
Waters, J. Vaur a-So	Spanish Fork	Wilcox, M. Hatch SS	McCammon, Ida.
Watkins, Clifford C. SS	Brigham City	Wilde, Erma ed-So	Brigham City
Watkins, Eddis W. SS	Brigham City	Wilde, Gordon H. a-F	Coalville
Watkins, Margaret as-J	Logan	Wilde, Merlin as-V	Preston, Ida.
Watkins, Ruth SS	Logan	Wilkins, Terry V. SS	Salt Lake City
Watt, George D. ed-So	Layton	Wiley, Armenia ho-S-SS	Bountiful
Watterson, Alma E. SS	Logan	Williams, Fred D. SS	Ogden
Watts, Conley a-So	Rexburg, Ida.	Williams, Glenn L. c-J	Logan
Watts, Jay SS	Rexburg, Ida.	Williams, Jack SS	Malad, Ida.
Watts, Verdun A. SS	Kanosh	Williams, John R. c-F	Salt Lake City
Weaver, Aldis as-F	Preston, Ida.	Williams, Leo SS	Samaria, Ida.
Webb, Doyl J. as-F	Richmond	Williams, M. Edgar SS	Price
Webb, Helene as-F	Logan	Williams, Margaret L. SS	Morgan
Webber, A. June a-So	Logan	Williams, Neva C. SS	Price
Weeks, Philip V. as-So	Ogden	Williams, Pearl H. ed-J	Logan
Weir, Loretta A. SS	Pocatello, Ida.	Williams, Pereshing D. SS	Morgan
Welch, Edith c-F	Mendon	Williams, Phyllis SS	Price
Wendel, Clarence J. SS	Pocatello, Ida.	Williams, Raleigh a-F	Spanish Fork
Wennergren, Mildred ed-F	Logan	Williams, Shirl a-So	Brigham City
West, Anna SS	Afton, Wyo.	Williams, Wesley L. c-S-SS	Malad, Ida.
West, Burnell G. as-J	Pl. Grove	Willie, Vernal SS	Brigham City
West, Lilla F. ed-So	Logan	Willmore, Howard SS	Logan
West, Lulu as-F-SS	Afton, Wyo.	Willmore, Paul e-So	Logan
West, Phillip L. e-F	Logan	Wilske, Emil SS	American Falls, Ida.
West, Ray B., Jr. as-J-SS	Logan	Wilson, Gerald S. as-F	Logan
West, Ray W. as-F	Pl. Grove	Wilson, Tyra ed-S	Logan
West, Shelby J. a-F	Pl. Grove	Wilson, Woodrow as-So	Logan
Westenskow, Elden SS	Manti	Wimmer, Allene M. c-F	Logan
Westenskow, Fern ho-S	Manti	Wimmer, Rex F. as-So	Logan
Westfall, Robert J. as-So	Elko, Nev.	Windsor, Lillian SS	Pocatello, Ida.
Weston, Bernice SS	Laketown	Winget, D. C. c-So	Monroe
Weston, Emma Lou as-F	Laketown	Winkel, Anton G. a-V	Richfield
Weston, Phebe ed-So	Laketown	Winkelman, Jay W. as-J	Mt. Pleasant
Weston, Ramona SS	Laketown	Winn, D. Sheldon a-G	Nephi
Weston, Rulon J. e-S-SS	Laketown	Winn, Florence L. as-G	Nephi
Westring, Lois H. ho-So	Spanish Fork	Winsor, Beatrice SS	Logan
Whatcott, A. Elihu a-S	Fillmore	Wintle, Eldon G. e-J	Honeyville
Whatcott, Clemouth L. SS	Logan	Wiseman, Harold W. SS	Logan
Whatcott, Thos. A. SS	Kanosh	Wiser, Ruth ed-S-SS	Logan
Whatcott, Wilford T. SS	Kanosh	Wiser, Scott A. as-F	Logan
Wheatley, Norma ed-F	Brigham City	Wixom, Earl P. ed-S-SS	Logan
Whitaker, Bruce G. as-S-SS	Kaysville	Wixom, Joseph as-So	Logan
Whitaker, Eugene G. as-F	Kaysville	Wood, Dallas as-F	Howell
White, Clark SS	Paradise	Wood, Gertrude J. ho-J	Cedar City
White, Dorothy R. ed-F-SS	Paradise	Wood, Harvey as-F	Smithfield
White, Jane SS	Ogden	Wood, Lowell SS	Idaho Falls, Ida.
White, Joseph c-J	Paradise	Wood, Melvin W. e-V	Woods Cross
White, June H. ed-G	Paradise	Wood, Vertis C. as-J	Cedar City
White, Lois C. as-S	Beaver	Wood, Walter L. as-So	Trenton
White, Max S. SS	Morgan	Woodard, Phillip J. SS	Soda Springs, Ida.
White, Vanice ho-F	Beaver	Woodland, Eloise ho-So	Malad, Ida.
Whitecar, LaVaun ho-So	Woods Cross	Woodland, Hazel ho-J	Logan
Whitehead, Elma ed-F	Logan	Woodland, Kathryn ed-S	Arimo, Ida.
Whitehouse, Franklin ed-S	Tooele	Woodland, Wm. Wesley c-S	Arimo, Ida.
Whiteley, Verra O. SS	Ogden	Woodruff, Angus Q. SS	Logan
Whitesides, Jos. E. c-F	Layton	Woods, Lowell G. a-J	Ogden
Whiting, Fred A. a-S	Wallsburg	Woodside, Josephine C. SS	Salt Lake City

Woodward, Harry K. as-J	Tremonton	Wursten, Joseph a-F	Logan
Woodward, Hyrum J. e-S	Wellsville	Wursten, Karine ed-So	No. Logan
Woodward, Lowell a-So	Logan		
Woodward, Rolo W. a-G	Logan	Yeates, Charles B. a-J	Logan
Woodward, Ruth ed-F	Franklin, Ida.	Yeates, Lulu SS	Logan
Workman, Lila L. SS	Salt Lake City	Yeates, Myrtle V. SS	Logan
Worley, Alys ed-So	Logan	Young, Floyd R. a-J	Wellington
Worley, Keith as-F	Logan	Young, George E. SS	Logan
Worthington, Glen SS	Nephi	Young, Vilda E. ho-F	Providence
Worthington, Max SS	Billings, Mont.	Youngs, Anna Mary SS	Pocatello, Ida.
Wright, Adrian W. c-G	Blackfoot, Ida.	Zbinden, Alma W. e-F	Logan
Wright, Hyrum P. SS	Morgan	Zile, Jos. A. SS	Belt, Mont.
Wright, Milton M. a-So	Blackfoot, Ida.	Zobell, Henry D. a-F	Salt Lake City
Wright, Morris H. c-So-SS	Logan	Zobell, Ira Delos a-G	Price
Wright, Rodney L. a-F	Logan	Zollinger, Clinton D. SS	Providence
Wright, Sylvian L. as-F	Hyrum	Zollinger, Dallas e-So	Providence
Wrigley, Robert L., Jr. c-J	Logan	Zundel, Pearl c-F	Salt Lake City

SCHEDULE OF COURSES OFFERED DURING FALL, WINTER AND SPRING QUARTERS 1933-34

Registration Procedure

Certain days have been designated as registration days. They are as follows:

Fall Quarter: Freshmen students register on Monday, September 25. All Sophomores, Juniors, Seniors, and Graduate Students, including students transferring from other colleges and universities, register on Tuesday, September 26. On Tuesday Freshmen will receive special instructions concerning the traditions, the ideals, and the policies of the institution so as to enable them to become adjusted to the college environment as quickly as possible. Instruction will begin on Wednesday, September 27.

Winter Quarter: All students register on Wednesday, January 3. Instruction will begin Thursday, January 4.

Spring Quarter: All students register on Monday, March 19. Instructions will begin on Tuesday, March 20.

All registrations should be completed on these days. A special late registration fee of \$1.00 per day with a maximum of \$5.00 will be charged those registering later in any quarter than the date designated as the registration day for that quarter. In addition to this late registration fee the amount of credit for which a student may register will be reduced by $1\frac{1}{2}$ quarter hours for each week or fraction thereof that he is late in registering.

Students are urged to begin registration as early in the day as possible, and to proceed with their registration work as quickly as facilities will permit. Students who have their courses definitely outlined beforehand should be able to complete their registration work in about two hours. As soon as their registration work is completed, students should vacate the main hallways and the registration offices and not loiter to visit with other students. Thoughtful students can do much to prevent congestion and crowding.

The registration procedure as outlined here applies only to the regular registration days specified above. Students registering late in any quarter should call at the Registrar's Office for special instructions.

Steps in Registration

Step No. 1—Obtain registration forms and fill out trial study list.

NEW STUDENTS, those who have never registered at the U. S. A. C. before, go to the Entrance Committee to obtain entrance permits and registration forms in Band Room, No. 133 Main Building. New students transferring from other colleges

or universities, after receiving entrance permits from the Entrance Committee should visit the Advanced Standing Committee in the Registrar's Office, No. 131 Main Building for the evaluation of college credits.

FORMER STUDENTS, those who have registered in a previous year but are now registering for the first time this current year, go to the Registrar's Office to obtain registration forms and progress reports.

REPEATING STUDENTS, (Winter and Spring Quarters only) Those who are registering for the second or third time this current year will obtain registration forms and progress reports in hallway; women in the south hallway, and men in the north hallway on the first floor of the Main Building.

Step No. 2—Go to the registration office in the particular school in which you are registering to consult Faculty Adviser on selection of course, and obtain signature of Faculty Adviser as approving study list.

Offices of Faculty Advisers

SCHOOL OF AGRICULTURE:

Freshmen and Sophomores..... L101
 Juniors and Seniors.....Offices of Major Professors

SCHOOL OF HOME ECONOMICS:

All students in Home Economics will register in Board Room, No. 103 Main Building.

SCHOOL OF ARTS AND SCIENCE:

Freshmen and Sophomores..... M102
 Juniors and Seniors.....Offices of Major Professors

SCHOOL OF COMMERCE:

Freshmen and Sophomores..... M301
 Juniors and Seniors.....Offices of Major Professors

SCHOOL OF EDUCATION:

Freshmen and Sophomores.....M280
 Juniors and Seniors.....Offices of Major Professors

SCHOOL OF ENGINEERING AND MECHANIC ARTS:

All students in this school register in Engineering Auditorium E210

Step No. 3—Go to Sectioning Committee on second floor of Main Building if registering for a course that is listed as having more than one section during the year. All sectioned classes are starred in the Schedule Bulletin. Students are held responsible for knowing which classes are sectioned, and for obtaining the proper enrollment cards from the Sectioning Committee for such classes. Students will not be admitted to classes that are sectioned unless they have obtained class enrollment cards from

the Sectioning Committee for such classes. Every male student must visit the Military Department on second floor of Main Building and secure a Military Registration Card, unless his Progress Report or his Registration Book has been stamped by the Registrar's Office showing completion of the military requirements. This must be done before the student goes to the checking tables.

Step No. 4—Go to checking tables on second floor of Main Building. All cards must be carefully checked for clerical details. Be sure to do this before getting in line for the Secretary's Office, because students whose cards have not been checked will be sent back and the time spent in the line will have been wasted.

Step No. 5—Go to Secretary's Office for payment of fees, also final delivery of forms if registering on regular registration days.

Step No. 6—Go to Registrar's Office for final delivery of forms if registering on any day other than those designated above as registration days.

The following abbreviations are used for buildings:

M—Main Building	P—Plant Industry Bldg.
W—Widtsoe Hall or Chem. Bldg.	L—Animal Husbandry Bldg.
A—Mechanic Arts Bldg.	H—Home Economics Bldg.
E—Engineering Bldg.	G—Gymnasium Bldg.
	N—New Library Bldg.
	V. C.—Veterinary Clinic Bldg.
	J. P.—Stock Judging Pavilion

Asterisk (*) Courses

All courses marked with an asterisk (*) are sectioned classes. Registration in these classes is limited to those who obtain enrollment cards from Sectioning Committee.

Sophomore Composition

Freshmen students may not register for Sophomore composition (English 11). Credit for such registration, even though obtained from the instructor, will be refused by the Registrar's Office, unless specific arrangements in writing have been made in advance. (See General Catalog.)

WARNING

Fifteen hours is the normal amount of work for which a student should register. A student may, however, with the consent of a Dean or Faculty Adviser register for as much as seventeen hours of regular college work plus one hour of Basic Physical Education or one hour of Basic Military Science and Tactics but not both.

Deans and Faculty Advisers have been instructed not to sign registration cards for more than the above amounts.

Do not attempt to file a registration card containing more than the maximum mentioned above. The signature of a Dean or Faculty Adviser is no protection to you in this regard.

Responsibility for obeying this regulation rests entirely with the student. Should any student succeed in getting an excess registration filed in the Registrar's Office and the offense is detected, the Registrar will, without consulting the student, remove one or more courses from such cards until the total amount remaining is within the amount permitted under the regulation. This regulation includes all work done by Extension, Correspondence, or otherwise while the student is carrying a full course at this institution. Credit for such work will be refused whenever it is presented for recording.

Excess credits are added to the student's registration card BY THE REGISTRAR'S OFFICE and only after the student has been duly registered and presents a petition properly executed, and approved by the Attendance and Scholarship Committee, and has paid the established fee for excess credits. The fee is \$1.00 for each hour of excess credit granted by the Attendance and Scholarship Committee. The Attendance and Scholarship Committee meets at least once each week to pass upon such petitions. The necessary forms may be obtained at the Registrar's Office.

No student will receive credit for work which is not included on his registration card. No person may regularly attend any courses for which he is not registered as a student or enrolled as an auditor. Students in the College are not admitted as auditors without the written approval of their Dean.

Auditors receive no credit.

LOW SCHOLARSHIP AND PROBATION

Students who have not maintained an average grade of C or better, students failing to obtain passing grades in 12 or more hours of work, and students who fail to do satisfactory work in Military Science and Tactics, during the preceding quarter are automatically placed in the low scholarship group.

Students in the low scholarship group may not participate in student activities other than regular class work. Students in the low scholarship group may be placed on probation for poor scholarship.

Students on probation who violate the terms of their probation are subject to immediate suspension from the College.

When in doubt regarding any of the regulations affecting them, students on probation should consult with the Attendance and Scholarship Committee. This committee alone has the authority to waive or modify the terms of probation.

Students in the low scholarship group may not register for more than 15 hours, exclusive of Physical Education or Military Science.

INCOMPLETE WORK

Students are required to complete, by the end of the quarter, all courses for which they have registered. Faculty members cannot give incomplete grades except to students who have received permission from the Committee on Incomplete Grades. Permission to receive an "I" grade must be obtained before the end of the quarter. Special blank forms have been provided for students who wish to petition the committee for permission to receive "I" grades. These forms may be obtained at the Registrar's Office.

FALL QUARTER

<i>No. of Courses</i>	<i>Title of Courses</i>	<i>Credit</i>	<i>Time</i>	<i>Room</i>	<i>Instructor</i>
Accounting (See Bus. Ad.)					
Agricultural Economics and Marketing					
102	Principles of Farm Management	3	M. W. F. 8	M178	Fuhriman
105	Agricultural Finance	3	M. W. F. 11	M178	Fuhriman
106	Land Economics	3	T. Th. 9, F. 12	M178	Fuhriman
210	Research in Agri. Econ.		Arranged	M178	Thomas
211	Agri. Economics Seminar	1	Arranged	M178	Fuhriman
Agronomy					
1	General Farm Crops	3	M. W. F. 9	P201	Tingey, Evans
6	General Soils	4	M. W. F. 9, T. 2	P204	Pittman
102	Root Crops	3	T. Th. 9, T. 2-5	P201	Tingey
104	Weeds, Seeds and Grading (Lab. W. 2-5 and on lab. arranged)	3	Th. 1	P202	Tingey
105	Seed Analysis	2	Arranged		Tingey
108	Soil Management	3	T. Th. 10, T. 2-5	P201	Pittman
111	Seminar	1	T. 11	P201	Evans
212	Seminar		Arranged		Staff
218	Special Problems	1-5	Arranged		Staff
230	Thesis	2	Arranged		Staff
Animal Husbandry					
1	General Animal Husbandry (Lab. T. 2-4)	3	M. W. 10	L205	Smith
110	Beef Cattle Production	3	M. W. F. 9	L205	Smith
160	Advanced Stock Judg. (Lec. & Lab.)	4	M. W. F. 2-5	JP	Smith
180	Animal Husbandry Seminar	1	T. 1	L207	Smith
200	Graduate Research		Arranged		Staff
207	Animal Experimentation		Arranged		Staff
210	Graduate Thesis	2-5	Arranged		Staff
215	Seminar		Arranged		Staff
Art					
1*	Nature Appreciation (Sec. 1)	3	T. Th. 8, M. 1	M330	Fletcher
1*	Nature Appreciation (Sec. 2)	3	M. W. F. 9	M330	Reynolds
31	Commercial Art and Posters	3	T. Th. 9, W. 12	M330	Reynolds
52	Design and Handwork for Schools	3	M. W. F. 11	M355	Reynolds
122	Home Planning and Construction	3	M. W. F. 10	M355	Fletcher
125	Anatomy and Figure Drawing	3	M. W. F. 11	M330	Fletcher
	Studio Crafts and Fine Arts	1-8	M. T. W. or Th. 2-5	M330	Fletcher Reynolds
(All Studio Courses in the Crafts or Fine Arts are given daily except Friday, 2-5 in Art Studios on 3rd floor Main Building. Consult Instructors or College Catalog for description and Course numbers.)					

*Sectioned Class.

SCHEDULE OF COURSES

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FALL QUARTER

<i>No. of Courses</i>	<i>Title of Courses</i>	<i>Credit</i>	<i>Time</i>	<i>Room</i>	<i>Instructor</i>
Auto Mechanics (See Engineering) (MA)					
Bacteriology					
1*	General Bacteriology (Sec. 1)	3	M. W. F. 8	W302	Stevens
1*	General Bacteriology (Sec. 2)	3	M. W. F. 9	W302	Greaves
1*	General Bacteriology (Sec. 3)	3	M. W. F. 10	W302	Greaves
2*	General Bacteriology Lab.	2	W. F. 2-5	W303	Stevens
101	Industrial Microbiology (Lab. W. F. 2-5)	3 or 5	M. W. F. 11	W302	Stevens
102	Soil Bacteriology (Lab. T. Th. 2-5)	2 or 5	T. Th. 9	W302	Greaves
113	Advanced Biochemistry	2	T. Th. 1	W302	Greaves
Botany					
1*	General Botany (Sec. 1) (One lab. any day 2-5 or T. 9-12)	3	T. Th. 8	P105	Maguire
1*	General Botany (Sec. 2) (One lab. any day 2-5 or T. 9-12)	3	T. Th. 10	P105	Maguire
126	Plant Ecology (Lab. M. W. 2-5)	4	M. W. 9	P105	Maguire
130	Principles of Plant Pathology (Lab. M. F. 2-5)	3	W. 11	P8	Richards
160	Methods	2	Arranged		Staff
234	Special Problems	2-4	Arranged		Staff
240	Seminar	2	Arranged		Staff
Business Administration and Accounting					
1*	Introductory Acct. (Lab. T. Th. 2-5)	5	M. W. F. 11	M302	Gardner
25	Introductory Business	5	Daily 10	M302	Peterson
26	Applications of Engineering to Business	2	T. Th. 11	E203	R. B. West
30	Business English	3	M. W. F. 10	M358	Fogelberg
54	Psychology in Business Relations	3	T. Th. 10, Th. 1	M357	Ketchum
78	Advanced Stenography	3	M. W. F. 9	M305	Fogelberg
86*	Beginners Typewriting (1st Qtr.) (Sec. 1)	1	T. Th. 1	M303	Neuberger
86*	Beginners Typewriting (1st Qtr.) (Sec. 2)	1	T. Th. 2	M303	Neuberger
89*	Advanced Typewriting (4th Qtr.) (Sec. 1)	1	T. Th. 9	M303	Neuberger
89*	Advanced Typewriting (4th Qtr.) (Sec. 2)	1	T. Th. 11	M303	Neuberger
93*	Elementary Calculator Operation (Sec. 1)	1	M. 2-5	M305	Neuberger
93*	Elementary Calculator Operation (Sec. 2)	1	W. 2-5	M305	Neuberger
94*	Advanced Calculator Operation	1	Th. 2-5	M305	Neuberger
98*	Burroughs Posting Machine—Comm. (Sec. 1)	1	M. 2-5	M305	Neuberger
98*	Burroughs Posting Machine—Comm.	1	W. 2-5	M305	Neuberger
99*	Burroughs Posting Machine—Bank	1	Th. 2-5	M305	Neuberger
101	Fundamentals of Accounting	5	Daily 9	M302	Peterson
104	C. P. A. Problems	5	Daily 10	M351	Gardner
122	Auditing (Lab. T. Th. 2-5)	5	M. W. F. 2	M358	Peterson
133	Industrial Management Problems	5	Daily 8	M351	Gardner
150	Economics of Wholesaling	3	M. W. F. 11	M357	Ketchum
176	Report Writing	2	T. Th. 11	M302	Fogelberg
178	Secretarial Science	3	M. W. F. 11	M305	Fogelberg
Chemistry					
1*	General Chemistry (Students in Chemistry 1 must arrange for one quiz section each week in addition to lecture periods.) (Sec. 1, W.9) (Sec. 2, M. 10) (Sec. 3, T. 9).	5	Daily 11	W201	Hill
3*	Inorganic Chemistry (Lab. Sec. 1, M. W. 2-5) (Lab. Sec. 2 & 3, T. Th. 2-5)	5	M. W. F. 8	W201	Mascer
10	General Chemistry	5	M. W. F. 10	W201	Hill

*Sectioned Class.

FALL QUARTER

<i>No. of Courses</i>	<i>Title of Courses</i>	<i>Credit</i>	<i>Time</i>	<i>Room</i>	<i>Instructor</i>
	(Lab. M. W. or T. Th. 2-5)				
21	Organic Chemistry (Lab. M. W. 2-5)	5	T. Th. 10, F. 1	W201	Hill
104	Physical Chemistry	3	T. Th. 9, F. 12	W201	Maeser
109	Physical Chemistry Laboratory		F. 2-5	W201	Maeser
112	Advanced Organic Chemistry	2	Arranged	W201	Maeser
Child Development and Parental Education					
13*	Children's Literature	3	T. Th. F. 11	M204	Pedersen
35	Infant and Child Nutrition	3	T. Th. 9, M. 1	H26	Clayton
36	Meal Preparation for Pre-School Children	2	Daily 11	H26	Clayton
38	Music for Young Children	1	T. 11	M130	Welti
111	Heredity and Eugenics	3	M. W. F. 11	M227	Henderson
125	Mothercraft	3	M. W. F. 10	H45	Dancy
135	Child Care and Training (Lab. fee of \$2.00)	5	M. W. F. 2	H12	Bate
140	Special Problems in Child Dev.	1-3	Arranged	Office	Bate
171	Social Problems of the Family	3	M. W. F. 11	M206	Hendricks
Dairy Husbandry and Manufacturing					
1	General Dairy (Lab. Th. 2-5)	3	T. Th. 9	L207	Caine & Morris
6	Market Milk (Lab. T. 2-5)	3	T. Th. 8	L105	Morris
12	Breeds of Dairy Cattle (Lab. M. 2-5)	4	M. W. F. 9	L207	Caine
103	Mfg. of Cheese (Lab. F. 11-5)	5	M. W. F. 10	L105	Morris
105	Mgt. of Dairy Plants (Lab. arr.)	2	W. 11	L105	Morris
115	Seminar		Arranged		Staff
150	Special Problems		Arranged		Staff
216	Research		Arranged		Staff
Economics					
4*	Economic Resources of U. S.	3	M. W. F. 8	M357	Ketchum
25	Econ. Dev. of Western Europe	3	T. Th. 8, M. 1	M357	Ketchum
51*	Principles of Economics (Sec. 1)	5	Daily 9	M357	Ketchum
51*	Principles of Economics (Sec. 2)	5	Daily 10	M178	Fuhrman
51*	Principles of Economics (Sec. 3)	5	Daily 11	M352	Cutler
52*	Principles of Economics (Sec. 1)	5	Daily 8	M302	Cutler
145	Economics of Consumption	2	T. Th. 10	M352	Wanlass
165	Money and Credit	5	Daily 9	M352	Wanlass
180	Seminar	1	T. 11	M305	Wanlass
Education					
4*	Principles of Education	5	Daily 9	M280	McClellan
104*	Elementary School Curriculum	3	T. Th. 8, M. 1	M280	Bowen
105	Principles of Teaching in Elementary Schools	3	M. W. F. 8	M280	Bowen
106	Practice Teaching in Elementary Schools	9	Arranged		Bowen
111*	Science of Education	3	T. Th. 8, M. 1	M283	Jacobsen
114*	Methods in Secondary Education	3	M. W. F. 8	M283	McClellan
115	Practice Teaching in Secondary Schools	4-8	Arranged		McClellan
121*	School Organization and Adm.	3	M. W. F. 10	M280	Bates & Hess
237	Education Seminar	1	Arranged		Staff
229	Advanced School Administration	2	T. Th. 10	M280	Jacobsen
267	Introduction to Research	2	W. 7-9 P. M.	M280	McClellan
English					
10*	Freshman Composition (Sec. 1)	5	Daily 8	N320	Sorensen
10*	Freshman Composition (Sec. 2)	5	Daily 11	N318	Vickers
10*	Freshman Composition (Sec. 3)	5	Daily 9	N318	Bell
10*	Freshman Composition (Sec. 4)	5	Daily 10	M360	Kyle
10*	Freshman Composition (Sec. 5)	5	Daily 10	M204	Pedersen

*Sectioned Class.

SCHEDULE OF COURSES

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FALL QUARTER

No. of Courses	Title of Courses	Credit	Time	Room	Instructor
11*	Sophomore Composition (Sec. 1)	4	M. T. W. F. 8	N312	Bell
11*	Sophomore Composition (Sec. 2)	4	M. T. W. F. 10	N310	Merrill
11*	Sophomore Composition (Sec. 3)	4	M. T. W. F. 9	M360	Kyle
	Freshman may not register for English 11				
13*	Children's Literature	3	T. Th. F. 11	M204	Pedersen
16	Scandinavian Literature in Translation	1	T. 1	N320	Hansen
19	Scientific Vocabulary	2	T. Th. 8	N316	Arnold
50	Readings in English Prose	3	M. W. F. 10	N320	Sorensen
53	Nineteenth Century Novel	3	M. W. F. 11	M360	Kyle
88	Browning	2	T. Th. 10	N320	Sorensen
105	College Grammar	5	Daily 8	N314	Vickers
108	Advanced Writing	3	M. W. F. 9	M204	Pedersen
111	18th Century Novel	5	Daily 9	N320	Sorensen
146	Shelley and Keats	2	T. Th. 11	M360	Kyle
1†	Fundamentals of Speech Delivery (Sec. 1)	3	M. W. F. 8	M204	Pedersen
2†	Oral Interpretation (Sec. 1)	5	Daily 10	M361	Goates
4†	Principles of Reading (Sec. 1)	5	Daily 11	M361	Myers
6†	Dialect	5	Daily 10	M205	Myers
103†	Forms of Public Address	5	Daily 9	M205	Goates
108†	Story Telling	5	Daily 9	M361	Myers
121†	Debating	5	Daily 10	N318	Vickers
154†	Advanced Directing	5-6	M. W. F. 11-1	M205	Goates

Engineering, Civil (CE)

1	Materials of Engineering (Lab. F. 2-5)	3	T. Th. 11	E306	Newey
61	Engineering Drawing (Lab. M. W. 2-5)	3	T. 10	E306	Kepner
81	Plane Surveying (Lab. T. Th. 2-5)	4	T. Th. 11	E205	Tingey
103	Strength of Materials (Lab. T. Th. 2-5)	5	M. W. F. 8	E304	Clyde
107	Masonry Const. & Foundations (Lab. F. 2-5)	5	M. W. Th. F. 9	E306	Kepner
141	Hydraulics (Lab. M. W. 2-5)	5	M. W. F. 11	E304	Clyde
149	Irrigation Inst. & Management	5	Daily 10	E304	Clyde
113	Structural Design (Lab. T. Th. 2-5)	4	M. W. 11	E306	Kepner
120	Highway Const. & Design (Lab. W. 2-5)	5	M. T. Th. F. 9	E203	West
125	Highway Transportation	3	M. W. F. 10	E203	West
146	Design of Irrig. Systems (Lab. M. W. 2-5)	5	M. W. F. 9	E304	Israelsen
190	Contracts and Specifications	3	M. W. F. 11	E203	West
110	Adv. Structural Theory	4	M. W. Th. F. 10	E306	Kepner

Engineering, Agric. (AE)

1	Surveying	4	M. W. 1-5	E205	Tingey
13	Farm Motors	3	T. Th. 2-5	A205	Powell
14	Farm Shop Repair Work	2	Arranged	Shop	Egbert
16	Tractor Operation and Repair	3	M. W. F. 2-5	A205	Powell

Engineering, Mech. Arts (MA)

1	Principles of Auto Con. & Oper.	3	M. W. F. 8-10	A205	Powell
4	Automobile Repair	3	M. W. F. 10-12	A205	Powell
5	Auto Care, Adjustment & Lubrication	2	M. W. F. 8	A205	Powell
11	Elements of Elect. & Magnetism	3	T. Th. 8-10	A203	Stock
23	Radio Receiving Sets	4	M. W. F. 2-5	A207	Stock
26	Aerodynamics (Lab. T. Th. 2-4)	4	T. Th. 10	A203	Stock
103	Gas Engines, Carburetors and Comb.	3	T. Th. 8-10	A205	Powell
111	Starting, Lighting & Ign.	4	M. W. F. 8-10	A203	Stock
127	Operation & Servicing A. C. Receivers	4	T. Th. 2-5	A207	Stock

Forging (MA)

32	Forge Practice (Sec. 1)	2	T. Th. 2-5	Shop	Egbert
31	Forge Practice (Sec. 2)	3	M. F. 1-5, W. 2-5	Shop	Egbert
33	Forge Practice (Sec. 3)	5	Daily 2-5	Shop	Egbert

*Sectioned Class.

FALL QUARTER

<i>No. of Courses</i>	<i>Title of Courses</i>	<i>Credit</i>	<i>Time</i>	<i>Room</i>	<i>Instructor</i>
34	Forge Shop Operations (Sec. 1)	3	M. W. F. 2-5	Shop	Egbert
34	Forge Shop Operations (Sec. 2)	2	T. Th. 2-5	Shop	Egbert
37	Select Work for Forge Practice	2	M. F. 1-3, W. 2-3 or M. W. F. 3-5 or T. Th. 2-5	Shop	Egbert
40	Forge Shop Work	2	M. F. 1-3, W. 2-3 or M. W. F. 3-5 or T. Th. 2-5	Shop	Egbert
43	Fender and Body Repair	2	T. Th. 8-10	Shop	Egbert
131	Adv. Shop Practice (Sec. 1)	2	T. Th. 2-5	Shop	Egbert
113	Adv. Shop Practice (Sec. 2)	4	M. F. 1-5, W. 2-5	Shop	Egbert
132	Smith-Hughes Unit	3	M. W. 1-5	Shop	Egbert
132	Smith-Hughes Unit	3	T. Th. 1-5	Shop	Egbert
134	Smith-Hughes Unit	3	T. Th. 1-3 or M. W. 1-3	Shop	Egbert
Machine Work					
51	Machine Shop Practice (Sec. 1)	4	M. T. W. F. 2-5	Shop	Newey
52	Machine Shop Practice	4	M. T. W. F. 2-5	Shop	Newey
53	Machine Shop Practice	4	M. T. W. F. 2-5	Shop	Newey
54	M. S. P. Short Course (Sec. 4)	3	M. W. F. 10-12	Shop	Newey
54	M. S. P. Short Course (Sec. 2)	3	M. W. F. 9-12	Shop	Newey
54	M. S. P. Short Course (Sec. 3)	2	T. Th. 2-5	Shop	Newey
54	M. S. P. Short Course (Sec. 4)	3	M. W. F. 2-5	Shop	Newey
55	M. S. P. Short Course (Sec. 1)	2	M. W. F. 10-12	Shop	Newey
55	M. S. P. Short Course (Sec. 2)	3	M. W. F. 9-12	Shop	Newey
55	M. S. P. Short Course (Sec. 3)	3	M. W. F. 2-5	Shop	Newey
56	M. S. P. Short Course (Sec. 1)	2	M. W. F. 10-12	Shop	Newey
56	M. S. P. Short Course (Sec. 3)	3	M. W. F. 2-5	Shop	Newey
57	M. S. P. Short Course (Sec. 1)	2	M. W. F. 10-12	Shop	Newey
57	M. S. P. Short Course (Sec. 3)	3	M. W. F. 2-5	Shop	Newey
58	M. S. P. Short Course (Sec. 1)	2	M. W. F. 10-12	Shop	Newey
58	M. S. P. Short Course (Sec. 3)	3	M. W. F. 2-5	Shop	Newey
59	M. S. P. Short Course (Sec. 1)	2	M. W. F. 10-12	Shop	Newey
59	M. S. P. Short Course (Sec. 3)	3	M. W. F. 2-5	Shop	Newey
151	General Machine Work	4	M. W. Th. F. 2-5	Shop	Newey
152	General Machine Work	4	M. W. Th. F. 2-5	Shop	Newey
153	General Machine Work	4	M. W. Th. F. 2-5	Shop	Newey
154	Tool Making	4	M. W. Th. F. 2-5	Shop	Newey
155	Tool Making	4	M. W. Th. F. 2-5	Shop	Newey
156	Tool Making	4	M. W. Th. F. 2-5	Shop	Newey
157	Smith-Hughes Machine Course	2-9	Arranged	Shop	Newey
Woodwork					
61	Elementary Woodwork	2	T. Th. 2-5	Shop	Swenson
62	Elementary Woodwork	3	M. W. F. 2-5	Shop	Swenson
63	Elementary Woodwork	2	T. Th. 9-12	Shop	Swenson
64	Mill Work	3	M. W. F. 2-5	Shop	Swenson
65	Mill Work	2	T. Th. 9-12	Shop	Swenson
66	Mill Work	3	M. W. F. 9-12	Shop	Swenson
67	Elementary Wood Turning	2	T. Th. 2-5	Shop	Swenson
68	Elementary Wood Turning	3	M. W. F. 9-12	Shop	Swenson
69	General Woodwork		Arranged	Shop	Swenson
71	Wood Carving	2	M. W. F. 8-10	Shop	Swenson
161	Advanced Woodwork	2	T. Th. 2-5	Shop	Swenson
162	Advanced Woodwork	3	M. W. F. 9-12	Shop	Swenson
163	Advanced Woodwork	2	T. Th. 9-12	Shop	Swenson
164	Fundamentals of Pattern Making	2	T. Th. 8-11	Shop	Swenson
166	Building Construction	3	M. W. F. 2-5	Shop	Swenson
169	Wood Finishing	2	M. W. F. 8-10	Shop	Swenson
170	Advanced Wood Turning	2	M. W. F. 10-12	Shop	Swenson

SCHEDULE OF COURSES

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FALL QUARTER

No. of Courses	Title of Courses	Credit	Time	Room	Instructor
Foods and Dietetics					
9	Meal Preparation and Serving	3	M. 2, T, Th. 2-5	H26	Kelly
20*	Food Study and Meal Preparation (Lab. M. W. 10-1)	5	T, Th. F. 10	H25	Kelly
35	Infant & Child Nutrition (Sec. 1)	3	T. Th. 9, M. 1	H26	Clayton
36	Meal Preparation for Pre-School Children	2	Daily 11	H23	Clayton
105	Food Preservation	3	M. 2, T, Th. 2-5	H23	Clayton
140	Dietetics (Lab. W. 2-4)	4	M. W. F. 9	H26	Clayton
160	Problems in Foods or Nutrition		Arranged		Clayton
210	Research in Foods or Nutrition		Arranged		Clayton
Forestry and Range					
12	Dendrology I (Lab. Th. 2-5)	3	T, Th. 11	L305	Becraft
25	Logging and Milling	3	M. W. F. 11	L303	Dunn
106	Mensuration (Lab. T. 8-11, F. 2-5)	5	M. W. F. 8	L303	Dunn
114	Silviculture I	3	T. Th. 11, F. 1	L308	Taylor
121	Forest Management	4	M. T. W. F. 8	L308	Taylor
143	Forestry Seminar	2	M. T. Th. 1	L303	Taylor & Dunn
145	Forestry Thesis	2-6	Arranged	L301	Taylor & Dunn
162	Range Management (Lab. T. 2-5)	4	M. W. F. 10	L305	Becraft
166	Range Management Plans (Lab. W. 2-5)	2	T. 10	L305	Becraft
193	Range Seminar	2	M. T. Th. 1	L305	Becraft
195	Range Thesis	2-6	Arranged	L306	Becraft
Forging (See Engineering) (MA)					
French (See Modern Languages)					
Geology					
1*	Geology and Geography of Utah	5	Daily 10	M283	Bailey
100	Forest Geology (Physical Geology)	5	Daily 9	M283	Bailey
110	Economic Geology (Mineral Resources of U. S.) (Lab. M. W. 2-5)	5	M. W. F. 11	M283	Bailey
114	Field Problems		Afternoons & Saturdays		Peterson & Bailey
German (See Modern Languages)					
Health Education (See Physiology)					
History					
1*	European History	5	Daily 9	N310	Merrill
4*	World Civilizations	5	Daily 11	N312	Ricks
13*	United States History (Sec. 1)	5	Daily 10	N314	Ricks
31*	English History	3	M. W. F. 8	N310	Merrill
120	European History	3	M. W. F. 9	N312	Ricks
158	United States History	2	T. Th. 9	N312	Ricks
Home Economics (General and Service Courses) (See also Child Development, Foods, Textiles and Clothing Department)					
9	Meal Preparation and Serving	3	M. 2, T, Th. 2-5	H26	Kelly
10*	Survey in Home Economics (Sec. 1)	1	F. 12	H26	Moen
15	Clothing Appreciation & Selection	2	T, Th. 11	H36	Crockett
25†	Care of the Sick (Lab. T. 2-5)	2	T. 10	H45	Dancy
125	Mothercraft	3	M. W. F. 10	H45	Dancy
149	Home Management (Lab. F. 1-4)	4	T. Th. 8	H26	Kelly
150	Residence in Home Economics Cottage	5	Arranged		Kelly
Horticulture					
1	General Horticulture (Lab. M. 2-5)	3	T, Th. 11	L309	Coe
101	Orchard Management (Lab. W. 2-5)	4	M. W. F. 8	L309	Coe
105	Major Vegetable Crops (Lab. T. 2-5)	3	T, Th. 9	L309	Wilson
109	Horticultural Products (Lab. Th. 2-5)	3	T, Th. 8	L309	Coe

*Sectioned Class.

†Limited to 18 students.

FALL QUARTER

No. of Courses	Title of Courses	Credit	Time	Room	Instructor
110	Orchard Practice (Lab. W. 2-5)	1		L309	Coe
153	Seminar	2	M. F. 1	L309	Coe
255	Graduate Seminar	2	M. F. 1	L309	Coe
Irrigation (See Engg.) (CE)					
Latin (See Modern Languages)					
Machine Work (See Engg.) (MA)					
Marketing (See Ag. Economics)					
Mathematics					
34*	Introduction to College Algebra (Sec. 1)	5	Daily 8	E205	Tingey
34*	Introduction to College Algebra (Sec. 2)	5	Daily 9	N314	Linford
34*	Introduction to College Algebra (Sec. 3)	5	Daily 10	N312	Egbert
34*	Introduction to College Algebra (Sec. 4)	5	Daily 11	N314	Egbert
Math. 34 is required of all students who expect to major in Physics, Chemistry, Engineering and Mathematics and who present but one unit of High School Algebra.					
35*	College Algebra	5	Daily 9	E205	Tingey
97	Analytic Geometry	5	Daily 10	E205	Tingey
120	Adv. Analytic Geometry	3	M. T. Th. 1	W101	Linford
150	Functions of Real Variable	3	T. Th. 10, F. 1	W101	Linford
160	Seminar	3	Arranged		Staff
Mechanical Drawing (See Engineering) (CE)					
Military Science & Tactics					
First Year Basic					
1†	During the Fall Quarter the Classes will meet for field work as follows: Sec. 1 M. 1-3, Sec. 2 T. 1-3, Sec. 3 Th. 1-3, Sec. 4 F. 1-3. Also in sections for class instruction as follows: Sec. 1 T. 9, Sec. 2 T. 11, Sec. 3 T. 11, Sec. 4 W. 8, Sec. 5 Th. 8, Sec. 6 Th. 10.				
	Students must arrange to take one of the above laboratory sections and one lecture section.				
		1		M1	Goodrich, Pitzer
Second Year Basic					
4†	During the Fall Quarter the class will meet in sections for field work as follows: Sec. 1 M. 1-3, Sec. 2 T. 1-3, Sec. 3 Th. 1-3, Sec. 4 F. 1-3. Also in sections for class instruction as follows: Sec. 1 T. 9, Sec. 2 T. 11, Sec. 3 Th. 8, Sec. 4 Th. 10.				
	Students must arrange to take one of the above laboratory sections and one lecture section.				
		1		M1	Waller
First Year Advanced					
101	(Lab. M. T. Th. or F. 1-3)	3	M. W. F. 10	M1	Goodrich
Second Year Advanced					
104	(Lab. M. T. Th. or F. 1-3)	3	M. W. F. 11	M1	Pitzer
Modern Languages					
1	First Year French (Sec. 1)	5	Daily 9	N316	Arnold
1	First Year French (Sec. 2)	5	Daily 8	M352	Fogelberg
1a	French—Grad.	3	M. W. F. 8	N316	Arnold
1	Latin	3	T. Th. 11, F. 1	N316	Arnold
101	Second Year French	3	M. W. F. 11	N316	Arnold
104	French Composition	1	M. 1	N316	Arnold

*Sectioned Class.

†Must obtain registration card and section card from Military Department.

SCHEDULE OF COURSES

FALL QUARTER

No. of Courses	Title of Courses	Credit	Time	Room	Instructor
110	French Research Readings		Arranged	N316	Arnold
119	French	2	T. Th. 1	N316	Arnold
1	First Year German (Sec. 1)	5	Daily 8	M356	Jensen
1	First Year German (Sec. 2)	5	Daily 10	M356	Jensen
101	Second Year German	3	M. W. F. 11	M356	Jensen
104	Scientific German	2	T. Th. 9	M356	Jensen
131	German	3	T. Th. 11, M. 12	M356	Jensen
Music					
8	Sight Singing	3	M. W. F. 11	M130	Welti
11*	Harmony (Sec. 1)	3	M. W. F. 9	M130	Welti
11*	Harmony (Sec. 2)	3	M. W. F. 10	M133	Christiansen
15	Orchestra Combinations	1/2	Arranged	M133	Christiansen
18	Symphony Orchestra	1 1/2	M. F. 12-2	M133	Christiansen
21	Band B	1	T. Th. 12-2	M132	Torbensen
24	Men's Glee Club	1	M. W. F. 12	M130	Welti
27	Ladies' Glee Club	1	T. Th. F. 12	M130	Welti
30	Methods	3	M. W. F. 10	M130	Welti
35	Vocal Groups	1	Arranged	M130	Welti
38	Music for Young Children	1	T. 11	M130	Welti
41	Band A	1 1/2	T. Th. 12-2, W. 12	M133	Christiansen
44	Brass and Reed Groups	1/2	Arranged	M133	Christiansen
50	Piano (Private)	1 1/2-3	Arranged		Associate Teachers
53	Vocal (Private)	1 1/2-3	Arranged		Welti
56	Wind Instruments (Private)	1 1/2-3	Arranged		Christiansen
60	Violin (Private)	1 1/2-3	Arranged		Christiansen, Spicker
80	Opera Appreciation	2	T. Th. 2	M133	Christiansen
111	Advanced Harmony	3	M. W. F. 9	M133	Christiansen
150	Piano (Private)	1 1/2-3	Arranged		Associate Teachers
153	Vocal (Private)	1 1/2-3	Arranged		Welti
156	Wind Instruments (Private)	1 1/2-3	Arranged	M133	Christiansen
160	Violin (Private)	1 1/2-3	Arranged	M133	Christiansen, Spicker
163	Pipe Organ (Private)	1 1/2-3	Arranged		S. E. Clark

Physical Education

Activity Classes for Men and Women

62	Archery (Sec. 1)	1	M. W. F. 9	G	Grace
62	Archery (Sec. 2)	1	T. Th. F. 2	G	Jenson
63	Recreative Games	1	T. Th. 10	G	
68	Elementary Folk Dancing	1	M. W. F. 11	G	Grace
71	Social Dancing	1	T. Th. 11	G	Grace
78	Parlor Games	1	M. F. 1	G	

Activity Classes for Men

3	Ping Pong	1	M. W. F. 9	G	Jenson
4	Boxing (Sec. 1)	1	M. W. F. 11	G	Jenson
4	Boxing (Sec. 2)	1	M. W. F. 2	G	Jenson
7	Wrestling (Sec. 1)	1	T. Th. 2	C	Nelson
7	Wrestling (Sec. 2)	1	T. Th. 1	C	Nelson
9	Fencing	1	M. W. F. 2	G	Jenson
11	Football	1	Daily 4	Stad.	Romney
13	Hand Ball (Sec. 1)	1	M. W. F. 9	G	Jenson
13	Hand Ball (Sec. 2)	1	M. W. F. 10	G	Jenson
13	Hand Ball (Sec. 3)	1	M. W. F. 11	G	Jenson
13	Hand Ball (Sec. 4)	1	T. Th. F. 12	G	Jenson
13	Hand Ball (Sec. 5)	5	T. Th. F. 2	G	Jenson
16	Elementary Swimming	1	M. W. F. 9	C	Jenson
19	Elementary Tumbling	1	T. Th. 10	G	Jenson
22	Basket Ball (Sec. 1)	1	M. W. F. 12	C	Jenson
22	Basket Ball (Sec. 1)	1	M. W. F. 10	G	Jenson
25	Individual Gymnastics	1	Arranged	G	Jenson
28	Volley Ball	1	M. W. F. 11	G	Jenson

*Sectioned Class.

FALL QUARTER

<i>No. of Courses</i>	<i>Title of Courses</i>	<i>Credit</i>	<i>Time</i>	<i>Room</i>	<i>Instructor</i>
Activity Classes for Women					
40	Soccer and Volley Ball (Sec. 1)	1	M. W. 12	G	
40	Soccer and Volley Ball (Sec. 2)	1	T. Th. 11	G	
40	Soccer and Volley Ball (Sec. 3)	1	T. Th. 1	G	
43	Advanced Gymnastics	1	T. Th. 9	G	Grace
45	Individual Gymnastics	1	Arranged	G	Grace
48	Elementary Natural Dancing	1	M. W. F. 2	G	Grace
51	Elementary Swimming (Sec. 1)	1	M. W. F. 12	G	
51	Elementary Swimming (Sec. 2)	1	T. Th. F. 12	G	
54	Advanced Swimming	1	T. Th. F. 2	G	Grace
141	Advanced Natural Dancing	1	M. W. F. 3	G	Grace
144	Advanced Folk Dancing	1	T. Th. F. 12	G	Grace
Professional Courses					
81	Dramatic Games	2	M. W. F. 10	G	Grace
85	Competitive Activities for Men	2	M. F. 1	G27	Jenson
91	Competitive Activities for Women	1	T. Th. 2	G27	Grace
106	Applied Anatomy and Physiology of Exercise	5	Daily 10	M132	Carter
183	Principles of Physical Education	5	Daily 9	G27	Jenson
188	Methods of Coaching	1	Daily 4	Stad.	Romney
Physics					
1*	General Physics (Sec. 1)	5	Daily 8	W101	West
1*	General Physics (Sec. 2)	5	Daily 11	W101	Linford
20	Mechanics (Lab. M. W. or T. Th. 2-5)	5	M. W. F. 9	W101	West
108	Advanced Lab. Work		F. 2	W101	West
110	Electricity and Magnetism	3	M. W. F. 10	W101	West
119	Modern Physics	2	T. Th. 11	W101	West
190	Theoretical Physics	3	M. W. F. 9	W101	Gardner
209	Theoretical Mechanics	2	T. Th. 9	W101	Gardner
218	Atomic St. & Thermodynamics	2	M. W. 11	W101	West
250	Research		Arranged		Staff
Physiology					
4*	Anatomy and Physiology (Sec. 1)	5	Daily 11	M132	Carter
4*	Anatomy and Physiology (Sec. 2)	5	Daily 9	M132	Dancy
5	General Physiology Lab. (Sec. 1)	1	T. 2-5	M29	Carter
5	General Physiology Lab. (Sec. 2)	1	W. 2-5	M29	Carter
14*	Health Education	4	M. T. W. F. 8	M132	Carter
106	Physiology of Exercise	5	Daily 10	M132	Carter
115	Journal Club	1	Arranged	M132	Carter
Physiology 14 and 106 cannot be used in Biological Science Group.					
Plant Pathology (See Botany)					
Political Science					
11	Commercial Law	3	M. W. F. 8	M360	Bullen
50	American Government	3	M. W. F. 10	M352	Wanlass
104	Commercial Law	3	T. Th. 8, M. 12	M360	Bullen
201	Seminar	1	Th. 11	M352	Wanlass
Psychology					
3*	Elementary Psychology (Sec. 1)	5	Daily 9	M279	Peterson
101*	Principles of Psychology (Sec. 1)	3	T. Th. 8, M. 1	M279	Peterson
102*	Adv. Educational Psychology (Sec. 1)	3	M. W. F. 8	M358	Jacobsen
Public Speaking (See English)					
Radio (See Engg.) (MA)					
Range Management (See Forestry)					
Secretarial Work (See Bus. Ad.)					

*Sectioned Class.

FALL QUARTER

<i>No. of Courses</i>	<i>Title of Courses</i>	<i>Credit</i>	<i>Time</i>	<i>Room</i>	<i>Instructor</i>
Sociology					
4*	Social Relations (Sec. 1)	3	T. Th. 9, W. 12	M204	Hendricks
70*	Principles of Sociology (Sec. 1)	3	M. W. F. 9	M351	Hendricks
70*	Principles of Sociology (Sec. 2)	3	M. W. F. 10	M206	Hendricks
101	Applied Rural Sociology	5	Daily 8	M206	Geddes
140	Social Psychology	5	Daily 9	M206	Geddes
171	Problems of the Family	3	M. W. F. 11	M206	Hendricks
201	Research in Sociology	4	Arranged	M206	Geddes
204	Methods of Research	2	T. Th. 10	M206	Geddes
Spanish (See Modern Languages)					
Speech (See English)					
Stenography (See Bus. Adm.)					
Textiles and Clothing					
1*	Elementary Clothing	3	W. F. 10-1	H36	Crockett
10*	Clothing Selection and Construction (Sec. 1)	3	T. Th. 2-5	H36	Crockett
10*	Clothing Selection and Construction (Sec. 2)	3	M. W. 2-5	H36	Crockett
15	Clothing Appreciation and Selection (For Men)	2	T. Th. 11	H36	Crockett
20	Household Textiles	5	Daily 9	H33	Moen
105	History of Costume	3	M. W. F. 11	H33	Moen
160	Advanced Problems in Clothing	2	T. Th. 11-1	H33	Moen
Typewriting (See Bus. Adm.)					
Veterinary Science					
10	Veterinary Elements (Lab. M. 2-5)	3	T. Th. 8	L203	Frederick
20	Comparative Veterinary Anatomy	3	T. Th. 10, F. 1	L203	Frederick
40	Comparative Veterinary Physiology	3	M. W. F. 9	L203	Frederick
50	Veterinary Clinic (Lab.)	1-2	M. 2-5	V. C.	Frederick
118	Anatomy and Physiology	3	M. W. F. 11	L203	Frederick
Woodwork (See Engg.) (MA)					
Zoology and Entomology					
1*	Principles of Zoology (Lab. T. or Th. 2-5)	5	Daily 8	M227	Henderson
3	Invertebrate Zoology (Lab. M. W. 2-5)	5	M. W. F. 10	M227	Stanford
Pre-Medical students should consult Dean of Arts and Science before registering.					
13	General Entomology (Lab. Th. 2-5)	4	M. W. F. 9	M227	Stanford
102	Systematic Entomology (2 other labs. to be arranged)	3	T. 2-5	M227	Henderson
111	Heredity and Eugenics	3	M. W. F. 11	M227	Henderson
117	Histological Tech. (Lab. T. F. 2-5)	3	T. 1	M227	Stanford
124	Seminar	1	Arranged	M227	Staff

*Sectioned Class.

WINTER QUARTER

<i>No. of Courses</i>	<i>Title of Courses</i>	<i>Credit</i>	<i>Time</i>	<i>Room</i>	<i>Instructor</i>
Accounting (See Bus. Adm.)					
Adv. and Selling (See Bus. Adm.)					
Agricultural Economics and Marketing					
53	Agricultural Economics	3	M. W. F. 11	M178	Fuhrman
112	Cooperative Marketing	5	M. W. F. 9 T. Th. 2-5	M178	Fuhrman
113	Cooperative Marketing	3	M. W. F. 9	M178	Fuhrman
121	Agricultural Prices	3 or 5	M. W. F. 10	M178	Thomas
191	Advanced Farm Management	3	T. Th. 9, W. 12	M178	Fuhrman
212	Agri. Economics Seminar	1	Arranged	M178	Thomas
210	Research in Agr. Economics		Arranged	M178	Thomas

WINTER QUARTER

No. of Courses	Title of Courses	Credit	Time	Room	Instructor
Agronomy					
1	General Crops	3	M. W. F. 9	P201	Evans and Tingey
6	General Soils	4	M. W. F. 9, T. 2	P204	Pittman
101	Cereal Crops	3	T. Th. 9, T. 2-5	P201	Bracken
105	Seed Analysis and Testing	2	Arranged	P202	Tingey
109	Plant Breeding	4	M. W. F. 11, M.2-5	P201	Tingey and Evans
112	Agronomy Seminar	1	T. 11	P201	Evans
114	History of Agriculture	3	M. W. F. 10	P203	Bracken
116	Dry Farming	3	M. W. F. 8	P201	Bracken
117	Geography of Agriculture	3	M. W. F. 10	P201	Evans
119	Crop Products	3	Arranged	P201	Bracken
207	Soil Technology	2	Arranged	P204	Pittman
208	Management of Arid Soils	4	Arranged	P204	Pittman
209	Adv. Plant Breeding	3-6	Arranged	P201	Evans
212	Seminar		Arranged		Evans
214	History of Agriculture	2-5	Arranged		Bracken
217	Geography of Agriculture		Arranged		Evans
218	Special Problems	1-5	Arranged		Staff
230	Thesis	2	Arranged		Staff
Animal Husbandry					
1	General Animal Husbandry (Lab. T. 2-4)	3	M. W. 10	L208	Caine
10	Feeds and Feeding	5	Daily 9	L207	Maynard
120	Swine Management	2	T. Th. 8	L208	Smith
125	Sheep Husbandry	3	M. W. F. 9	L208	Esplin
130	Wool Study (Lab. T. or Th. 2-5)	3	T. Th. 1	L208	Esplin
145	Problems in Livestock Prod.	3	M. W. F. 8	L208	Smith
150	Animal Nutrition	5	Daily 11	L207	Maynard
165	Advanced Wool (Lab. M. or W. 2-4)	3	M. W. 11	L309	Esplin
170*	Farm Meats and Meat Prod. (Sec. 1)	3	T. Th. 2-5	V. C.	Smith
170*	Farm Meats and Meat Prod. (Sec. 2)	3	M. F. 2-5	V. C.	Smith
175	Selection of Meats for Household	2	W. F. 10	V. C.	Smith
181	Animal Husbandry Seminar	1	M. 1	L207	Caine and Esplin
200	Graduate Research		Arranged		Staff
203	Scientific Meat Studies		Arranged	L207	Smith
204	Wool Problems		Arranged	L308	Esplin
207	Animal Experimentation		Arranged		Staff
210	Graduate Thesis	2-5	Arranged		Staff
215	Seminar		Arranged		Staff
Art					
2*	Design (Sec. 1)	3	T. Th. 8, M. 1	M330	Fletcher
2*	Design (Sec. 2)	3	M. W. F. 9	M330	Reynolds
20	Puppetry	2	M. W. 2-5	M330	Reynolds
34	Art for Young Children	2	T. Th. 1	M355	Fletcher
52	Design and Handwork for Public Schools	3	M. W. F. 11	M355	Reynolds
53	Handwork for Elementary Grades	3	T. Th. 11, F. 2-5	M355	Reynolds
123	Interior Decoration (Lab. F. 2-5)	5	M. T. W. F. 10	M355	Fletcher
	Studio Crafts and Fine Arts	1-8	M. T. W. or Th. 2-5	M355	Fletcher and Reynolds
	(All Studio Courses in the Crafts or Fine Arts are given daily except Friday 2-5 in Art Studios on 3rd Floor Main Bldg. Consult Instructors or College Catalog for description and Course numbers.)				
Auto Mechanics (See Engg.) (MA)					
Bacteriology					
1*	General Bacteriology (Sec. 4)	3	M. W. F. 8	W302	Stevens
1*	General Bacteriology (Sec. 5)	3	M. W. F. 9	W302	Greaves
2*	General Bacteriology Lab.	2	W. F. 2-5	W303	Stevens
106	Pathogenic Bacteriology (Lab.				

*Sectioned Class.

WINTER QUARTER

<i>No. of Courses</i>	<i>Title of Courses</i>	<i>Credit</i>	<i>Time</i>	<i>Room</i>	<i>Instructor</i>
	W. F. 2-5)	3 or 5	M. W. F. 9	W303	Stevens
110	Physiological Bacteriology	3	M. W. F. 10	W302	Greaves
114	Advanced Biochemistry	2	T. Th. 1	W302	Greaves
Botany					
2*	General Botany (Sec. 1) (Lab. any day 2-5) or T. 9-12)	3	T. Th. 8	P105	Maguire
2*	General Botany (Sec. 2) (Lab. any day 2-5) or T. 9-12)	3	T. Th. 10	P105	Maguire
116	Histological Technique	3	Arranged		Staff
124	Plant Chemistry	3	M. W. F. 9	P105	Wann
133	Field Crop Diseases	3	W. 11, M. F. 2-5	P8	Richards
135	Orchard Crop Diseases (2 labs.)	3	W. 11	P8	Richards
161	Methods of Teaching Botany	2	Arranged		Staff
241	Seminar	2	Arranged		Staff
221	Pathological Technique	3 or 5	Arranged	P8	Richards and Wann
222	Photographic Technique	3	Arranged	P8	Richards
235	Special Problems	2-4	Arranged		Staff
Business Administration and Accounting					
1*	Introductory Accounting (Lab. T. Th. 2-5)	5	M. W. F. 11	M302	Fogleberg
27	Material Handling, Plant Layouts, and Blue Print Reading	2	T. Th. 11	E306	Kepner
28	Business Finance	5	Daily 10	M358	Gardner
75	Elementary Shorthand	5	Daily 10	M302	Fogelberg
79	Advanced Shorthand	3	M. W. F. 9	M302	Fogelberg
86*	Beginners Typewriting (1st Qtr.)	1	T. Th. 1	M303	Neuberger
87*	Beginners Typewriting (2nd Qtr.) (Sec. 1)	1	M. W. 2	M303	Neuberger
87*	Beginners Typewriting (2nd Qtr.) (Sec. 2)	1	T. Th. 2	M303	Neuberger
90*	Advanced Typewriting (4th Qtr.) (Sec. 1)	1	T. Th. 9	M303	Neuberger
90*	Advanced Typewriting (4th Qtr.) (Sec. 2)	1	T. Th. 11	M303	Neuberger
93*	Calculator Operation (Sec. 1)	1	M. 2-5	M305	Neuberger
93*	Calculator Operation (Sec. 2)	1	W. 2-5	M305	Neuberger
94*	Advanced Calculator Operation	1	Th. 2-5	M305	Neuberger
98*	Burroughs Posting Machine—Comm.	1	M. 2-5	M305	Neuberger
98*	Burroughs Posting Machine—Comm.	1	W. 2-5	M305	Neuberger
99	Burroughs Posting Machine—Bank	1	Th. 2-5	M305	Neuberger
102	Problems in Accounting Principles	3	M. W. F. 9	M358	Peterson
108	Accounting for non-commercial students	3	M. W. F. 10	M357	Peterson
120	Auditing	3	M. W. F. 2	M358	Peterson
124	Seminar Accounting	2	T. Th. 11	M302	Peterson
136	Business & Professional Ethics	2	T. Th. 10	M352	Wanlass
146	Risk and Risk-Bearing	5	Daily 9	M357	Ketchum
152	Problems in Merchandising	3	M. W. F. 11	M358	Peterson
Chemistry					
1*	General Chemistry (Sec. 2) (Students in Chemistry 1 must arrange for one Quiz period each week in addition to lecture periods. Sec. 1 T. 8, Sec. 2 W. 10, Sec. 4 Th. 11.)	5	Daily 9	W201	Hill
4*	Inorganic Chem. (Lab. M.W. or T.Th. 2-5)	5	M. W. F. 8	W201	Maeser
10	General Chem. (Lab. M.W. or T.Th. 2-5)	5	T. Th. 8, M. 1	W201	Hirst
11	General Chem. (Lab. M.W. or T.Th. 2-5)	5	M. W. F. 10	W201	Hill
14	Qualitative Analysis	3	T. Th. F. 2-5	W201	Hirst
22	Organic Chemistry (Lab. M. W. 2-5)	5	T. Th. 10, F. 1	W201	Hill
102	Quantitative Analysis	3	T. Th. F. 2-5	W201	Hirst
105	Physical Chemistry	3	T. Th. 9, F. 12	W201	Maeser
110	Physical Chemistry Lab.	1	F. 2-5	W201	Maeser
113	Advanced Organic Chemistry	2	Arranged	W201	Maeser

*Sectioned Class.

WINTER QUARTER

No. of Courses	Title of Courses	Credit	Time	Room	Instructor
Child Development and Parental Education					
34	Art for Young Children	2	T. Th. 1	M355	Fletcher
55	Children's Clothing	2	W. F. 10-12	H33	Moen
111	Hereditry and Eugenics	3	M. W. F. 8	M227	Henderson
125	Mothercraft	3	M. W. F. 10	H45	Dancy
135	Child Development (Lab. fee \$2.00)	5	M. W. F. 2	H12	Bate
140	Special Problems in Child Development	1-3	Arranged		Bate
190	Child Development Seminar	2	W. 3-5	H12	Bate
Dairy Husbandry and Mfg.					
1	General Dairy (Lab. Th. 2-5)	3	T. Th. 9	L208	Caine & Morris
2	Dairy Farming	3	T. Th. 10, F. 1	L208	Caine
102	Manufacture of Butter (Lab. T. 2-5)	5	M. T. W. Th. 11	L105	Morris
104	Con'd & Evaporated Milk (Lab. W. 2-5)	5	M. T. W. Th. 8	L105	Morris
105	Mgt. of Dairy Plants (Lab. arr.)	2	Arranged	L105	Morris
109	Dairy Production	3	M. W. F. 11	L208	Caine
115	Seminar		Arranged		Staff
150	Special Problems		Arranged		Staff
216	Research		Arranged		Staff
Economics					
4*	Economic Resources of U. S.	3	M. W. F. 11	M357	Ketchum
30*	Economic Developments of U. S.	3	M. W. F. 8	M357	Ketchum
51*	Principles of Economics (Sec. 4)	5	Daily 8	M178	Fuhriman
51*	Principles of Economics (Sec. 5)	5	Daily 9	M361	Cutler
51*	Principles of Economics (Sec. 6)	5	Daily 11	M352	Gardner
52*	Principles of Economics (Sec. 2)	5	Daily 8	M302	Cutler
131	Business Statistics	5	Daily 9	M351	Gardner
167	Banking	5	Daily 9	M352	Wanlass
171	Economics of Business Cycles	3	T. Th. 10, Th. 1	M357	Ketchum
181	Economic Seminar	1	T. 11	M305	Wanlass
Education					
4*	Principles of Education	5	Daily 9	M280	McClellan
104*	Elementary School Curriculum	3	T. Th. 8, M. 1	M280	Bowen
105*	Principles of Teaching in Elem. Schools	3	M. W. F. 8	M280	Bowen
106*	Practice Teaching in Elementary Schools	9	Arranged		Bowen
110	History of Education	3	T. Th. 11, F. 1	M279	McClellan
111*	Science of Education	3	T. Th. 8, M. 1	M283	Jacobsen
114*	Methods in Secondary Education	3	M. W. F. 8	M283	McClellan
115	Practice Teaching in Secondary Schools	4-8	Arranged		McClellan, Bates & F
119	Methods in Home Economics	3	T. Th. 8, M. 1	M227	Bate
121*	Public School Organization and Adm.	3	M. W. F. 10	M280	Jacobsen
122	Practice Teaching in Home Economics	4-8	Arranged		Bate
124	Methods in Teaching Shop Work	5	Daily 10	M351	Humpherys
125	Practice Teaching in Shop Work	4-8	Arranged		Humpherys
126	Methods in Teaching Agriculture	5	Daily 9	M355	Humpherys
127	Practice Teaching in Agriculture	4-8	Arranged		Humpherys
129	Vocational Guidance & Personnel	3	M. W. F. 11	M351	Humpherys
131	Educational Tests & Measurements	3	M. W. F. 8	M206	Jacobsen
268	Introduction to Research	2	W. 7-9 P. M.	M280	Jacobsen
English					
10*	Freshman Composition (Sec. 6)	5	Daily 8	N318	Vickers
10*	Freshman Composition (Sec. 7)	5	Daily 9	N320	Sorensen
10*	Freshman Composition (Sec. 8)	5	Daily 10	M360	Kyle
10*	Freshman Composition (Sec. 9)	5	Daily 11	N310	Bell
10*	Freshman Composition (Sec. 10)	5	Daily 10	M204	Pedersen
11*	Sophomore Composition (Sec. 4)	4	M. T. W. Th. 11	N320	Sorensen
11*	Sophomore Composition (Sec. 5)	4	M. T. W. Th. 9	N318	Bell

*Sectioned Class.

WINTER QUARTER

No. of Courses	Title of Courses	Credit	Time	Room	Instructor
11*	Sophomore Composition (Sec. 6)	4	M. T. W. Th. 10	N310	Merrill
17	Scandinavian Literature in Translation	1	T. 1	N320	Hansen
31	World Literature	5	Daily 11	N318	Vickers
51	Readings in Poetry	3	M. W. F. 10	N318	Vickers
54	Nineteenth Century Novel	3	M. W. F. 11	M360	Kyle
56	Metrical Study of Poetry	2	T. Th. 10	N318	Vickers
70	The Short Story	3	M. W. F. 9	M360	Kyle
80	American Literature	3	T. Th. 11, F. 1	M360	Kyle
109	Advanced Writing	3	M. W. F. 8	M204	Pedersen
140	Shakespeare	4	T. W. Th. F. 9	M204	Pedersen
187	English Drama 1660-1820	5	Daily 10	N320	Sorensen
1†	Extemporaneous Speaking (Sec. 2)	3	M. W. F. 9	M356	Myers
2†	Oral Interpretation (Sec. 2)	5	Daily 11	M361	Goates
3†	Speech Organization	5	Daily 9	M205	Goates
5†	Speech Technique	5	Daily 10	M205	Goates
			Daily 11		
102	Acting	6	M. W. F. 12	M205	Myers
104	Platform Reading	3	M. W. F. 11	M204	Pedersen
			Daily 12		
106	General Directing	6	M. W. F. 11	M205	Myers
113	Pedagogy of Speech	2	T. Th. 9	M356	Myers
Engineering, Civil (CE)					
62	Engineering Drawing	2	M. W. 2-5	E306	Kepner
83	Office Practice	2	T. Th. 2-5	E203	Tingey
101	Applied Mechanics	5	Daily 8	E306	Kepner
106	Reinforced Concrete (Lab. T. Th. 2-5)	5	M. W. F. 9	E304	Clyde
108	Building Construction	3	M. T. Th. 9	E306	Kepner
121	Highway Administration	3	M. W. F. 9	E203	West
147	Design of Irrig. System (Lab. F. 2-5)	5	M. T. W. F. 8	E304	Israelsen
191	Railroads	3	T. Th. 9, W. 12	E203	West
192	Engineering Economics	5	Daily 10	E203	West
197	Electric Machinery	3	M. W. F. 11	W101	F. L. West
198	Thesis	1	Th. 11	E203	Staff
Engineering, Mech. Arts (MA)					
2	Principles of Auto Const. & Operation	3	M. W. F. 8-10	A205	Powell
3	Auto Care and Maintenance	3	M. W. F. 10-12	A205	Powell
5	Auto Care, Adj. & Lubrication	2	T. Th. 8	A205	Powell
5	Auto Care, Adj. & Lubrication	2	M. W. F. 10	A206	Powell
12	Ignition, Starting & Lighting	3	T. Th. 8-10	A203	Stock
15	Ignition, Starting & Light for Car Owners	2	T. Th. 8	A203	Stock
21	Oxy-acetylene & Elec. Welding	3	Arranged	A206	Powell
23	Radio Receiving Sets	4	Arranged	A207	Stock
24	Radio Receiving Sets	4	M. W. F. 2-5	A207	Stock
27	Aviation Engines	4	M. W. F. 10-12	A203	Stock
101	Auto Repair	3	M. W. F. 2-5	A205	Powell
112	Generator Rep. & Armature Winding	4	Arranged	A203	Stock
128	Short Wave Receivers & Transmitters	4	T. Th. 2-5	A206	Stock
Forging (MA)					
31	Forge Practice (Sec. 1)	3	M. F. 1-5, W. 2-5	Shop	Egbert
32	Forge Practice (Sec. 2)	2	T. Th. 2-5	Shop	Egbert
33	Forge Practice (Sec. 3)	5	Daily 3-5	Shop	Egbert
35	Forge Shop Operations (Sec. 1)	3	M. W. F. 2-5	Shop	Egbert
35	Forge Shop Operations (Sec. 2)	2	T. Th. 2-5	Shop	Egbert
37	Select Work from Forge Practice	2	M. W. F. 3-5 or T. Th. 2-5 or M.F. 1-3, W. 2-4	Shop	Egbert

*Sectioned Class.

†Enrollment in all classes is limited. Students must register with the instructor of the course personally.

WINTER QUARTER

<i>No. of Courses</i>	<i>Title of Courses</i>	<i>Credit</i>	<i>Time</i>	<i>Room</i>	<i>Instructor</i>
41	Farm Shop Work	2	M. F. 1-3, W. 2-3 or T. Th. 2-5	Shop	Egbert
131	Adv. Shop Practice (Sec. 1)	4	M. F. 1-5, W. 2-5	Shop	Egbert
131	Adv. Shop Practice (Sec. 2)	2	T. Th. 2-5	Shop	Egbert
Machine Work (MA)					
51	Machine Shop Practice	4	M. T. W. F. 2-5	Shop	Newey
52	Machine Shop Practice	4	M. T. W. F. 2-5	Shop	Newey
53	Machine Shop Practice	4	M. T. W. F. 2-5	Shop	Newey
54	M. S. P. Short Course (Sec. 1)	2	M. W. F. 10-12	Shop	Newey
54	M. S. P. Short Course (Sec. 2)	3	M. W. F. 9-12	Shop	Newey
54	M. S. P. Short Course (Sec. 3)	2	T. Th. 2-5	Shop	Newey
54	M. S. P. Short Course (Sec. 4)	2	T. Th. 9-12	Shop	Newey
54	M. S. P. Short Course (Sec. 5)	3	M. W. F. 2-5	Shop	Newey
55	M. S. P. Short Course (Sec. 1)	2	M. W. F. 10-12	Shop	Newey
55	M. S. P. Short Course (Sec. 2)	3	M. W. F. 2-5	Shop	Newey
56	M. S. P. Short Course (Sec. 1)	2	M. W. F. 10-12	Shop	Newey
56	M. S. P. Short Course (Sec. 2)	3	M. W. F. 2-5	Shop	Newey
57	M. S. P. Short Course (Sec. 1)	2	M. W. F. 10-12	Shop	Newey
57	M. S. P. Short Course (Sec. 2)	3	M. W. F. 2-5	Shop	Newey
58	M. S. P. Short Course (Sec. 1)	2	M. W. F. 10-12	Shop	Newey
58	M. S. P. Short Course (Sec. 2)	3	M. W. F. 2-5	Shop	Newey
59	M. S. P. Short Course (Sec. 1)	2	M. W. F. 10-12	Shop	Newey
59	M. S. P. Short Course (Sec. 2)	3	M. W. F. 2-5	Shop	Newey
151	General Machine Work	4	M. W. Th. F. 2-5	Shop	Newey
152	General Machine Work	4	M. W. Th. F. 2-5	Shop	Newey
153	General Machine Work	4	M. W. Th. F. 2-5	Shop	Newey
154	Tool Making	4	M. W. Th. F. 2-5	Shop	Newey
155	Tool Making	4	M. W. Th. F. 2-5	Shop	Newey
156	Tool Making	4	M. W. Th. F. 2-5	Shop	Newey
157	Smith-Hughes Machine Course	2-9	Arranged		Newey
Woodwork (MA)					
61	Elementary Woodwork	2	T. Th. 2-5	Shop	Swenson
62	Elementary Woodwork	3	M. W. F. 2-5	Shop	Swenson
63	Elementary Woodwork	2	T. Th. 9-12	Shop	Swenson
64	Mill Work	3	M. W. F. 2-5	Shop	Swenson
65	Mill Work	2	T. Th. 9-12	Shop	Swenson
66	Mill Work	2	M. W. F. 9-12	Shop	Swenson
67	Elementary Wood Turning	2	T. Th. 2-5	Shop	Swenson
68	Elementary Wood Turning	3	M. W. F. 9-12	Shop	Swenson
69	General Woodwork		Arranged	Shop	Swenson
70	Farm Woodwork	2	T. Th. 2-5	Shop	Swenson
71	Wood Carving	2	M. W. F. 8-10	Shop	Swenson
161	Advanced Woodwork	2	T. Th. 2-5	Shop	Swenson
162	Advanced Woodwork	3	M. W. F. 9-12	Shop	Swenson
163	Advanced Woodwork	2	T. Th. 9-12	Shop	Swenson
164b	Fundamentals of Pattern Making	2	T. Th. 8-11	Shop	Swenson
166	Building Construction	3	M. W. F. 2-5	Shop	Swenson
167	Building Construction	3	M. W. F. 9-12	Shop	Swenson
169	Wood Finishing	2	M. W. F. 8-10	Shop	Swenson
170	Advanced Wood Turning	2	M. W. F. 10-12	Shop	Swenson
Entomology (See Zoology and Entomology)					
Foods and Dietetics					
20†	Food Study & Meal Preparation (Sec. 2) (Lab. T. Th. 2-5)	5	M. W. F. 2	H26	Kelly
21†	Food Study & Meal Preparation (Sec. 1)				

*Sectioned Class.

WINTER QUARTER

No. of Courses	Title of Courses	Credit	Time	Room	Instructor
	(Lab. M. W. 10-1)	5	T. Th. F. 10	H26	Kelly
106	Food Engineering	3	M. W. F. 11-1	H23	Clayton
141	Advanced Nutrition (Lab. W. 2-4)	4	M. W. F. 9	H26	Clayton
160	Problems in Foods or Nutrition		Arranged		Clayton
210	Research in Foods or Nutrition		Arranged		Clayton
Forestry and Range					
18	Fire Protection	3	M. W. 11	L308	Taylor
107	Mensuration (Lab. F. 2-5)	4	M. W. F. 9	L303	Dunn
115	Silviculture II	3	T. Th. 11, F. 1	L308	Taylor
122	Forest Finance	5	Daily 8	L308	Taylor
125	Wood Tech. & For. Prod. (Lab. M.W. 2-5)	5	M. W. F. 11	L303	Dunn
133	Economics and Policy	2	T. Th. 10	L308	Taylor
144	Forestry Seminar	3	M. T. Th. 1	L303	Taylor & Dunn
145	Forestry Thesis	2-6	Arranged	L301	Taylor & Dunn
164	Range Problems	4	M. T. W. F. 8	L305	Becraft
176	Range Forage Plants (Lab. M. W. 2-5)	5	M. W. F. 9	L305	Becraft
194	Range Seminar	2	M. T. Th. 1	L305	Becraft
195	Range Thesis	2-6	Arranged	L306	Becraft
Forging (See Engineering) (MA)					
French (See Modern Languages)					
Geology					
1*	Geology and Geography of Utah	5	Daily 11	M283	Bailey
15*	College Geography	5	Daily 9	M283	Bailey
105	General Geology (Physical)	5	Daily 10	M283	Bailey
German (See Modern Languages)					
Health Education (See Physiology)					
History					
2*	European History	5	Daily 9	N310	Merrill
4*	World Civilizations	5	Daily 11	N312	Ricks
14*	United States History	5	Daily 10	N314	Ricks
32*	English History	3	M. W. F. 8	N310	Merrill
121	European History	3	M. W. F. 9	N312	Ricks
159	United States History	2	T. Th. 9	N312	Ricks
Home Economics (General and Service Courses)					
(See also Child Development, Foods, and Textiles and Clothing Dept.)					
10*	Survey in Home Economics	1	M. 12	H26	Crocket
25*	Care of the Sick (Lab. T. 2-5)	2	T. 10	H45	Dancy
125	Mothercraft	3	M. W. F. 10	H45	Dancy
150	Residence in Home Econ. Cottage	5	Arranged		Kelly
Horticulture					
4	Vegetable Crops (Lab. M. 2-5)	3	T. Th. 10	L205	Wilson
8	Vegetable Forcing	2	Arranged	L309	Wilson
107	Spraying (Lab. W. 2-5)	4	M. W. F. 9	L309	Coe
120	Adv. Landscape Design	2	Arranged	L309	Coe
154	Seminar	2	M. F. 1	L309	Wilson
205	Adv. Vegetable Crops	5	Daily 8	L309	Wilson
210	Fundamentals of Fruit Production	5	Daily 10	L309	Coe
254	Graduate Seminar	2	M. F. 1	L309	Wilson

*Sectioned Class.

WINTER QUARTER

No. of Courses	Title of Courses	Credit	Time	Room	Instructor
	Ignition (See Engineering) (MA)				
	Irrigation (See Engineering) (CE)				
	Latin (See Modern Languages)				
	Machine Work (See Engineering) (MA)				
	Marketing (See Ag. Economics)				
	(See also Bus. Adm.)				
	Mathematics				
35*	College Algebra (Sec. 1)	5	Daily 8	E205	Tingey
35*	College Algebra (Sec. 2)	5	Daily 9	M359	Linford
35*	College Algebra (Sec. 3)	5	Daily 8	N314	Egbert
34	Introduction to College Algebra	5	Daily 9	N314	Egbert
46	Trigonometry	5	Daily 10	N312	Egbert
60	Math. Theory of Investment	3	M. W. F. 11	E205	Tingey
98	Differential Calculus	5	Daily 10	E205	Tingey
110	Advanced Statistics	3	M. W. F. 9	E205	Tingey
121	Advanced Calculus	3	M. T. Th. 1	W101	Linford
151	Functions of Real Variable	3	T. Th. F. 1	W101	Linford
161	Seminar		Arranged		Staff
	Mechanical Drawing (See Engg.) (CE)				
	Military Science and Tactics				
	First Year Basic				
2†	During the Winter Quarter classes meet for field work as follows: Sec. 1 M. 1-3, Sec. 2 T. 1-3, Sec. 3 Th. 1-3, Sec. 4 F. 1-3. Also in sections for class instruction as follows: Sec. 1 T. 9, Sec. 2 T. 11, Sec. 3 T. 11, Sec. 4 W. 8, Sec. 5 Th. 8, Sec. 6 Th. 10. Students must arrange to take one of the above laboratory sections and one lecture section.	1		M1	Goodrich, Pitzer
	Second Year Basic				
5†	During the Winter Quarter the class will meet in sections for field work as follows: Sec. 1 M. 1-3, Sec. 2 T. 1-3, Sec. 3 Th. 1-3, Sec. 4 F. 1-3. Also in sections for class instruction as follows: Sec. 1 T. 9, Sec. 2 T. 11, Sec. 3 Th. 8, Sec. 4 Th. 10. Students must arrange to take one of the above laboratory sections and one lecture section.	1		M1	Waller
	First Year Advanced				
102	(Lab. M. T. Th. or F. 1-3)	3	M. W. F. 10	M1	Goodrich
	Second Year Advanced				
105	(Lab. M. T. Th. or F. 1-3)	3	M. W. F. 11	M1	Pitzer
	Modern Languages				
1	Spanish Grammar	4	M. T. W. Th. 10	N315	Arnold
2	First Year French	5	Daily 9	N316	Arnold
2	First Year French	5	Daily 11	N314	Fogelberg
2a	French—Grad.	3	M. W. F. 8	N316	Arnold
2	Latin	3	T. Th. 11, F. 1	N316	Arnold
102	Second Year French	3	M. W. F. 11	N316	Arnold

*Sectioned Class.

†Must obtain registration card from Military Department.

WINTER QUARTER

No. of Courses	Title of Courses	Credit	Time	Room	Instructor
105	French Composition	1	M. 1	N316	Arnold
111	French Research Readings		Arranged	N316	Arnold
120	French Novels	2	T. Th. 1	N316	Arnold
2	First Year German (Sec. 1)	5	Daily 8	M356	Jensen
2	First Year German (Sec. 2)	5	Daily 10	M356	Jensen
102	Second Year German	3	M. W. F. 11	M356	Jensen
105	German Research Readings		Arranged	M356	Jensen
132	German	3	T. Th. 11, M. 12	M356	Jensen
Music					
9	Sight Singing	3	M. W. F. 11	M130	Wolti
16	Orchestra Combinations	$\frac{1}{2}$	Arranged	M133	Christiansen
19	Symphony Orchestra	$1\frac{1}{2}$	M. F. 12-2	M133	Christiansen
22	Band B	1	T. Th. 12-2	M132	Torbensen
25	Men's Glee Club	1	M. W. F. 12	M130	Wolti
28	Ladies' Glee Club	1	T. Th. F. 12	M130	Wolti
31	Methods	3	M. W. F. 10	M130	Wolti
36	Vocal Groups		Arranged	M130	Wolti
42	Band A	$1\frac{1}{2}$	T. Th. 12-2, W. 12	M133	Christiansen
45	Brass and Reed Groups	$\frac{1}{2}$	Arranged	M133	Christiansen
51	Piano (Private)	$1\frac{1}{2}$ -3	Arranged		Assoc. Teachers
54	Vocal (Private)	$1\frac{1}{2}$ -3	Arranged		Wolti & Assoc. Teachers
57	Wind Instruments (Private)	$1\frac{1}{2}$ -3	Arranged	M133	Christiansen
61	Violin (Private)	$1\frac{1}{2}$ -3	Arranged		Christiansen & Assoc. Teachers
81	Symphony Appreciation	2	T. Th. 2	M133	Christiansen
12*	Harmony (Sec. 1)	3	M. W. F. 9	M130	Wolti
12*	Harmony (Sec. 2)	3	M. W. F. 10	M133	Christiansen
112	Advanced Harmony	3	M. W. F. 9	M133	Christiansen
121	Band and Orchestra Methods	2	T. Th. 11	M133	Christiansen
151	Piano (Private)	$1\frac{1}{2}$ -3	Arranged		Assoc. Teachers
154	Vocal (Private)	$1\frac{1}{2}$ -3	Arranged		Wolti & Assoc. Teachers
157	Wind Instruments (Private)	$1\frac{1}{2}$ -3	Arranged	M133	Christiansen
161	Violin (Private)	$1\frac{1}{2}$ -3	Arranged		Christiansen & Wolti
164	Pipe Organ (Private)	$1\frac{1}{2}$ -3	Arranged		S. E. Clark
Physical Education					
Activity Classes for Men and Women					
64	Recreative Games	1	T. Th. 10	G	
66	Winter Sports	1	T. Th. F. 1	G	Croft
69	Elementary Folk Dancing	1	M. W. F. 11	G	Grace
71	Social Dancing	1	T. Th. 11	G	Grace
78	Parlor Games	1	T. Th. 1	G	
Activity Classes for Men					
3	Ping Pong	1	M. W. F. 9	G	Jenson
5	Boxing (Sec. 1)	1	M. W. F. 11	G	Jenson
5	Boxing (Sec. 2)	1	M. W. F. 2	G	Jenson
8	Wrestling (Sec. 1)	1	T. Th. 2	G	Nelson
8	Wrestling (Sec. 2)	1	T. Th. 1	G	Nelson
10	Fencing	1	M. W. F. 2	G	Jenson
14	Hand Ball (Sec. 1)	1	M. W. F. 9	G	Jenson
14	Hand Ball (Sec. 2)	1	M. W. F. 10	G	Jenson
14	Hand Ball (Sec. 3)	1	M. W. F. 11	G	Jenson
14	Hand Ball (Sec. 4)	1	T. Th. F. 12	G	Jenson
14	Hand Ball (Sec. 5)	1	T. Th. F. 2	G	Jenson
17	Elementary Swimming	1	M. W. F. 9	G	Jenson
20	Elementary Tumbling	1	T. Th. 10	G	Jenson

*Sectioned Class.

WINTER QUARTER

No. of Courses	Title of Courses	Credit	Time	Room	Instructor
23	Basket Ball (Sec. 1)	1	M. W. F. 12	G	Jenson
23	Basket Ball (Sec. 2)	1	M. W. F. 10	G	Jenson
26	Individual Gymnastics	1	Arranged	G	Jenson
29	Volley Ball	1	M. W. F. 11	G	Jenson
Activity Classes for Women					
41	Basket Ball (Sec. 1)	1	M. W. 9	G	
41	Basket Ball (Sec. 2)	1	T. Th. 9	G	
41	Basket Ball (Sec. 3)	1	T. Th. 12	G	
41	Basket Ball (Sec. 4)	1	M. F. 1	G	
44	Tumbling and Stunts	1	T. Th. 9	G	Grace
46	Individual Gymnastics	1	Arranged	G	Grace
49	Elementary Natural Dancing	1	M. W. F. 2	G	Grace
52	Elementary Swimming (Sec. 1)	1	M. W. F. 12	G	
52	Elementary Swimming (Sec. 2)	1	T. Th. F. 12	G	Grace
54	Advanced Swimming	1	T. Th. F. 2	G	Grace
142	Advanced Natural Dancing	1	M. W. F. 3	G	Grace
145	Advanced Folk Dancing	1	T. Th. F. 12	G	Grace
Professional Courses					
82	Theory and Practice of Plays and Games	3	M. W. F. 10	G27	Grace
87	Hygiene for Men	2	T. Th. 11	G27	Jenson
92	Competitive Activities	1	T. Th. 2	G27	
180a	Correct Gymnastics	3	M. W. F. 9	G27	Grace
184	Methods of Teaching P. E.	3	T. Th. F. 1	G27	Jenson
185	History of P. E.	3	M. W. F. 11	G27	Jenson
187	Adv. Swimming	2	Daily 3	G	Jenson
189	Methods of Coaching	1	Daily 4	Stad.	Romney
Physics					
2*	General Physics (Sec. 1)	5	Daily 8	W101	West
1*	General Physics (Sec. 2)	5	Daily 11	W101	Linford
21	Electricity and Magnetism (Lab. M. W. or T. Th. 2-5)	5	M. W. F. 9	W101	West
108	Adv. Lab.	1	F. 2	W101	West
112	Elec. Engineering	3	M. W. F. 10	W101	West
120	Modern Physics	2	T. Th. 11	W101	West
191	Theoretical Physics	3	M. W. F. 9	W101	Gardner
210	Theoretical Mechanics	2	T. Th. 9	W101	Gardner
219	Atomic St. & Thermodynamics	2	M. W. 11	W101	West
251	Research		Arranged		Staff
Physiology					
4*	Anatomy & Physiology (Sec. 3)	5	Daily 9	M132	Dancy
4*	Anatomy & Physiology (Sec. 4)	5	Daily 11	M132	Dancy
5	General Physiology Lab.	1	T. 2-5	M29	Carter
5	General Physiology Lab.	1	W. 2-5	M29	Carter
14*	Health Education	4	M. T. W. F. 11	M280	Carter
	Health Education cannot be used in Biological Science Group.				
107	Advanced Physiology	5	Daily 10	M132	Carter
108*	Public Health & Hygiene (Sec. 1)	3	M. W. F. 8	M132	Carter
108*	Public Health & Hygiene (Sec. 2)	3	M. W. F. 11	M279	Carter
116	Journal Club	1	Arranged	M132	Preston
Plant Pathology (See Botany)					
Political Science					
12	Commercial Law	3	M. W. F. 8	M360	Bullen
105	Commercial Law	3	T. Th. 8, M. 12	M360	Bullen
113	Municipal Government	3	M. W. F. 10	M352	Wanlass
202	Current Political Problems	1	Th. 11	M305	Wanlass

*Sectioned Class.

WINTER QUARTER

<i>No. of Courses</i>	<i>Title of Courses</i>	<i>Credit</i>	<i>Time</i>	<i>Room</i>	<i>Instructor</i>
Poultry					
1	General Poultry	3	M. W. F. 9	L205	Alder
2	General Poultry (Lab. M. 2-5)	4	M. W. F. 9	L205	Alder
8	Turkey Raising	2	T. Th. 9	L205	Alder
106	Poultry Breeds & Breeding	3	M. W. F. 11	L205	Alder
107	Poultry Feeds & Feeding	3	M. W. F. 10	L205	Alder
125	Special Problems		Arranged	L205	Alder
126	Seminar	1	Arranged	L205	Alder
127	Adv. Poultry Practice		Arranged	L205	Alder
Public Speaking (See English)					
Psychology					
3*	Elementary Psychology (Sec. 2)	5	Daily 9	M279	Peterson
101*	Principles of Psychology (Sec. 2)	3	M. W. F. 8	M279	Peterson
102	Advanced Educational Psychology (Sec. 2)	3	T. Th. 8, M. 1	M279	Peterson
Radio (See Engineering) (MA)					
Range Management (See Forestry)					
Secretarial Science (See Bus. Adm.)					
Sociology					
4*	Social Relations (Sec. 2)	3	M. W. F. 9	M206	Hendricks
40	Modern Social Problems	3	T. Th. 9, W. 12	M206	Hendricks
70*	Principles of Sociology (Sec. 3)	3	M. W. F. 10	M206	Hendricks
172	Poverty and Dependency	3	M. W. F. 11	M206	Hendricks
Spanish (See Modern Languages)					
Speech (See English)					
Stenography (See Bus. Adm.)					
Textiles and Clothing					
10*	Clothing Selection & Construction (Sec. 3)	3	M. W. 2-5	H33	Moen
10*	Clothing Selection & Construction (Sec. 4)	3	T. Th. 2-5	H36	Crockett
11*	Clothing Selection & Construction (Sec. 1)	3	T. Th. 2-5	H33	Moen
11*	Clothing Selection & Construction (Sec. 2)	3	M. W. 2-5	H36	Crockett
50	Textile Selection	3	M. W. F. 9	H36	Crockett
55	Children's Clothing	2	W. F. 10-12	H33	Moen
115	Costume Design	3	T. Th. 10-1	H36	Crockett
161	Advanced Problems in Clothing	2	W. F. 11-1	H33	Moen
Typewriting (See Bus. Adm.)					
Veterinary Science					
10	Veterinary Elements (Lab. M. 2-5)	3	W. F. 10	L203	Frederick
21	Comparative Veterinary Anatomy	3	T. Th. 10, F. 1	L203	Frederick
41	Physiology	3	M. W. F. 9	L203	Frederick
51	Veterinary Clinics (Lab. 2-5)	1-2	M. 2-5	V. C	Frederick
60	Horse Shoeing	3	T. Th. 9, W. 12	L203	Frederick
70	Poultry Diseases	3	M. W. F. 11	L203	Frederick
107	Hygiene & Inf. Dis. (Lab. M. 2-5)	4	T. Th. 8, M. 1	L203	Frederick
130	Obstetrics	2	T. Th. 11	L203	Frederick
Woodwork (See Engg.) (MA)					

*Sectioned Class.

WINTER QUARTER

No. of Courses	Title of Courses	Credit	Time	Room	Instructor
Zoology and Entomology					
1	Principles of Zoology (Lab. T. or F. 2-5)	5	Daily 11	M227	Henderson
4	Vertebrate Zoology (Lab. M. W. 2-5)	5	M. W. F. 10	M227	Stanford
14	Agric. Entomology (Lab. Th. 2-5)	4	T. Th. 9, W. 12	M227	Stanford
101	Insect Morphology (Lab. W. 2-5)	3	T. Th. 10	M227	Stanford
103	Systematic Entomology (Lab. T. and 2 others)	1	T. 2-5	M227	Henderson
111	Heridity and Eugenica	3	M. W. F. 8	M227	Henderson
118	History and Organology (Lab. T. F. 2-5)	3	T. 1	M227	Stanford
125	Seminar	1	Arranged	M227	Staff

SPRING QUARTER

No. of Courses	Title of Courses	Credit	Time	Room	Instructor
Accounting (See Bus. Adm.)					
Advertising and Selling (See Bus. Adm.)					
Agricultural Economics and Marketing					
53	Agricultural Economics	3	M. W. F. 8	M178	Fuhriman
62	Principles of Marketing	5	Daily 10	M178	Fuhriman
70	Farm Management and Accounts	3	T. Th. 8, M. 1	M178	Fuhriman
114	Marketing of Fruits & Vegetables	3	M. W. F. 11	M178	Fuhriman
210	Research in Agri. Econ.		Arranged		Thomas
213	Agri. Econ. Seminar	1	Arranged		Fuhriman
Agronomy					
103	Forage Crops	3	T. Th. 9, T. 2-5	P201	Tingey
105	Seed Analysis	2 or more	Arranged	P202	Tingey
110	Soil Fertility	3	T. Th. 10, Th. 2-5	P204	Pittman
113	Agronomy Seminar	1	T. 11	P201	Evans
212	Seminar		Arranged		Staff
215	Methods in Agronomic Research	3	M. W. F. 10	P201	Tingey, Evans
218	Special Problems	1-5	Arranged		Staff
230	Thesis	2	Arranged		Staff
Animal Husbandry					
5	Principles & Prac. of Judging	2	M. 2-5	J. P.	Smith
100	Breed Types of Livestock	5	Daily 8	L207	Smith
104	Market Breed Types of Livestock (Lab. T. Th. 3-5)	3	T. Th. 2	J. P.	Smith
105	Market Classes & Grades of Livestock (Lab. W. F. 3-5)	3	W. F. 2	J. P.	Smith
115	Horse Husbandry	2	T. Th. 9	L207	Caine
140	Livestock Management	1-2	Arranged		Caine, Smith, Dr
155	Animal Breeding	4	M. T. W. Th. 9	L208	Smith
182	Animal Husbandry Seminar	1	M. 1	L207	Smith
200	Graduate Research		Arranged		Staff
207	Animal Experimentation		Arranged		Staff
215	Seminar		Arranged		Staff
255	Special Problems	3	Arranged		Staff
Art					
3*	Art Appreciation (Sec. 1)	3	T. Th. 8, M. 1	M330	Fletcher
3*	Art Appreciation (Sec. 2)	3	M. W. F. 9	M330	Reynolds
32	Color	3	M. W. F. 11	M355	Reynolds
51	Drawing for Public Schools	3	M. W. F. 11	M330	Fletcher

*Sectioned Class.

SPRING QUARTER

No. of Courses	Title of Courses	Credit	Time	Room	Instructor
126	History of Architecture	3	M. W. F. 10	M355	Fletcher
133	History of Painting	3	T. Th. 9, W. 12	M355	Reynolds
	Studio Crafts and Fine Arts. (All Studio Courses in the Crafts or Fine Arts are given daily except Friday 2-5 in Arts Studios on 3rd Floor Main Bldg. Consult Instructors or College Catalog for description and Course Numbers.)		M.T.W. or Th. 2-5	M355	Fletcher & Reynolds
Auto Mechanics (See Engg.) (MA)					
Bacteriology					
1*	General Bacteriology (Sec. 6)	3	M. W. F. 9	W302	Stevens
1*	General Bacteriology (Sec. 7)	3	M. W. F. 11	W302	Greaves
2*	General Bacteriology Lab.	2	W. F. 2-5	W303	Stevens
104	Dairy Bacteriology (Lab. W. F. 2-5)	3-5	M. W. F. 8	W302	Stevens
111	Biochemistry	5	Daily 10	W302	Greaves
115	Advanced Biochemistry	2	T. Th. 1	W302	Greaves
Botany					
3*	General Botany (Sec. 1) (One lab. any day 2-5 or T. 9-12)	3	T. Th. 8	P105	Maguire
3*	General Botany (Sec. 2) (One lab. any day 2-5 or T. 9-12)	3	T. Th. 10	P105	Maguire
30	Systematic Botany (Lab. M. W. 2-5)	4	M. W. 9	P105	Maguire
102	Advanced Taxonomy		Arranged		Maguire
120	Elementary Plant Physiology (Lab. T. Th. 2-5)	5	T. Th. 9 W. 12	P105	Wann
162	Methods of Teaching Botany	2	Arranged		Staff
236	Special Problems	2-4	Arranged		Staff
242	Seminar	2	Arranged	P105	Staff
Business Administration and Accounting					
2	Introductory Accounting (Lab. T. Th. 2-5)	5	M. W. F. 11	M302	Gardner
76	Elementary Shorthand	5	Daily 10	M302	Fogelberg
80	Advanced Shorthand	3	M. W. F. 9	M302	Fogelberg
86*	1st Quarter Typewriting	1	T. Th. 12	M303	Neuberger
87*	2nd Quarter Typewriting	1	T. Th. 11	M303	Neuberger
88*	3rd Quarter Typewriting (Sec. 1)	1	T. Th. 2	M303	Neuberger
88*	3rd Quarter Typewriting (Sec. 2)	1	T. Th. 9	M303	Neuberger
91*	Advanced Typewriting	1	M. W. 2	M303	Neuberger
93*	Calculator Operation	1	M. 2-5	M305	Neuberger
94*	Calculator Operation	1	W. 2-5	M305	Neuberger
98*	Burroughs Posting Machine—Comm.	1	M. 2-5	M305	Neuberger
98*	Burroughs Posting Machine—Comm.	1	W. 2-5	M305	Neuberger
99*	Burroughs Posting Machine—Bank	1	Th. 2-5	M305	Neuberger
103	Problems in Accounting	3	M. W. F. 9	M351	Peterson
121	Auditing	3	M. W. F. 2	M351	Peterson
125	Seminar Accounting	2	T. Th. 11	M351	Peterson
130	Investments	5	Daily 11	M351	Peterson
140	Business Policy	5	Daily 8	M302	Gardner
153	Problems in Merchandising	3	M. W. F. 11	M352	Peterson
158	Marketing Management	3	M. W. F. 10	M357	Ketchum
175	Business & Office Practice	3	M. W. F. 2	M302	Fogelberg

*Sectioned Class.

SPRING QUARTER

No. of Courses	Title of Courses	Credit	Time	Room	Instructor
Chemistry					
5	Inorganic Chemistry (Lab. T. Th. 2-5)	5	M. W. F. 8	W201	Maeser
11	General Chemistry (Lab. M. W. or T. Th. 2-5)	5	T. Th. 8 M. 1	W201	Hirst
12	General Chemistry (Lab. M. W. or T. Th. 2-5)	5	M. W. F. 10	W201	Hill
15	Qualitative Analysis	3	T. Th. F. 2-5	W201	Hirst
103	Quantitative Analysis	3	T. Th. F. 2-5	W201	Hirst
106	Physical Chemistry	3	T. Th. 9 F. 12	W201	Maeser
111	Physical Chemistry Lab.	1	F. 2-5	W201	Maeser
160	Seminar	2	Arranged	W201	Hill
Child Development					
35	Infant and Child Nutrition	3	T. Th. 8, M. 1	H26	Clayton
36	Meal Preparation for Pre-School Children	2	Daily 11	H26	Clayton
103	Psychology of Adolescence	3	T. Th. 8, M. 1	M279	Peterson
110	Psychology of Infancy	3	M. W. F. 10	M279	Peterson
125	Mothercraft	3	M. W. F. 10	H45	Dancy
135	Child Development (Lab. fee \$2.00)	5	M. W. F. 2	H12	Bate
140	Special Problems in Child. Dev.	1-3	Arranged	Office	Bate
150	Environmental Factors of Child Life	3	M. W. F. 8	M206	Geddes
171	Social Problems of the Family	3	M. W. F. 9	M204	Hendricks
Dairy Husbandry and Mfg.					
4	Dairy Mechanics (Lab. Th. 2-5)	4	M. W. F. 8	L105	Morris
5	Judging Dairy Products (Lab. M. 2-5)	2	M. 1	L105	Morris
101	Manufacturing of Ice Cream (Lab. T. 2-5)	5	M. T. W. Th. 10	L105	Morris
105	Management of Dairy Mfg. Plants (Lab. arranged)	2	Arranged	L105	Morris
110	Dairy Production (Lab. T. 2-5)	5	M. T. W. F. 11	L208	Caine
111	Dairy Cattle Judging	2	T. Th. 2	J. P.	Caine
115	Seminar		Arranged		Staff
150	Special Problems		Arranged		Staff
216	Research		Arranged		Staff
Economics					
51*	Principles of Economics (Sec. 7)	5	Daily 8	M352	Cutler
51*	Principles of Economics (Sec. 8)	5	Daily 9	M357	Ketchum
52*	Principles of Economics (Sec. 3)	5	Daily 8	M357	Ketchum
52*	Principles of Economics (Sec. 4)	5	Daily 10	M359	Gardner
140	International Economic Relations	3	M. W. F. 9	M352	Wanlass
172	Indus. Combinations and Monopolies	3	T. Th. 10, Th. 1	M357	Ketchum
182	Economic Seminar	1	T. 11	M305	Wanlass
205	History of Economic Doctrines	2	T. Th. 9	M352	Wanlass
Education					
4*	Principles of Education	5	Daily 9	M280	McClellan
6	Organization and Administration in Elementary Schools	3	M. W. F. 10	M280	Jacobsen
104	Elementary School Curriculum	3	T. Th. 8, M. 1	M280	Bowen
105	Principles of Teaching in Elementary Schools	3	M. W. F. 8	M280	Bowen
106	Practice Teaching in Elementary Schools	9	Arranged		Bowen
111	Science of Education	3	T. Th. 8, M. 1	M351	Jacobsen
114	Methods in Secondary Education	3	M. W. F. 8	M351	McClellan
115	Practice Teaching in Secondary Schools	4-8	Arranged		McClellan
119	Methods of Teaching Home Economics	3	T. Th. 8, M. 1	M359	Bate
122	Practice Teaching in Home Economics	4-8	Arranged		Bate
125	Practice Teaching in Shop Work	4-8	Arranged		Humpherys

*Sectioned Class.

SPRING QUARTER

No. of Courses	Title of Courses	Credit	Time	Room	Instructor
127	Practice Teaching in Agriculture	4-8	Arranged		Humpherys
135	Statistics for Teachers	3	M. W. F. 11	M280	Jacobsen
160	Philosophy of Education	2	W. 7-9 P.M.	M280	Jacobsen
230	Educational Supervision	2	T. Th. 8	M361	McClellan
English					
10*	Freshman Composition (Sec. 11)	5	Daily 8	N320	Sorensen
10*	Freshman Composition (Sec. 12)	5	Daily 10	N312	Merrill
10*	Freshman Composition (Sec. 13)	5	Daily 11	N318	Vickers
10*	Freshman Composition (Sec. 14)	5	Daily 9	N320	Bell
10*	Freshman Composition (Sec. 15)	5	Daily 10	M360	Kyle
11*	Sophomore Composition (Sec. 7)	4	M. T. W. Th. 9	N318	Vickers
11*	Sophomore Composition (Sec. 8)	4	M. T. W. Th. 10	N310	Bell
11*	Sophomore Composition (Sec. 9)	4	M. T. W. Th. 11	N310	Merrill
18	Scandinavian Literature in Translation	1	T. 1	N320	Hansen
19	Scientific Vocabulary	3	T. Th. 10, F. 1	N316	Arnold
55	Nineteenth Century Novel	3	M. W. F. 11	M360	Kyle
60	The Essay	3	T. Th. 9, F. 1	M360	Kyle
81	American Literature	3	M. W. F. 9	M360	Kyle
105	College Grammar	5	Daily 8	N318	Vickers
141	Shakespeare	4	T. W. Th. F. 9	M204	Pedersen
150	History of English Literature	3	M. W. F. 10	N320	Sorensen
153	Chaucer	5	Daily 8	M204	Pedersen
185	Contemporary Poetry	5	Daily 11	N320	Sorensen
188	Arnold	2	T. Th. 10	N320	Sorensen
1†	Extemporaneous Speaking	3	M. W. F. 11	M204	Pedersen
4†	Principles of Reading	5	Daily 10	M361	Myers
7†	Speech Delivery	5	Daily 11	M205	Goates
10†	Advanced Interpretation	5	Daily 10	M205	Goates
101†	Advanced Public Address	5	Daily 9	M205	Goates
111†	Psychology of Speech	5	Daily 9	M361	Myers
114†	Children's Theatre	5	Daily 11	M361	Myers
Engineering, Civil (CE)					
2	Materials of Engineering (Lab. Th. 2-5)	3	T. Th. 11	E203	West
63	Descriptive Geometry	2	M. W. F. 2-5	E307	Kepler
82	Plane Surveying (Lab. T. Th. 2-5)	4	T. Th. 11	E205	Tingey
102	Applied Mechanics	5	Daily 8	E306	Kepler
109	Elementary Structural Theory (Lab. Th. 2-5)	5	M. T. W. F. 11	E306	Kepler
143	Water Supply and Hydrology (Lab. M. 2-5)	5	M. W. Th. F. 9	E304	Clyde
145	Design of Drainage Systems (Lab. Sat.)	3	T. Th. 11	E304	Israelsen
148	Hydro-Electric Design (Lab. T. Th. 2-5)	5	M. W. F. 8	E304	Israelsen
181	Railroads and Highway Curves and Earthwork (Lab. M. W. 2-5)	5	M. W. F. 9	E203	West
196	Heat and Power Machinery	3	M. W. F. 10	W101	F. L. West
194	Sewerage and Sewage Disposal (Lab. F. 2-5)	5	M. T. W. Th. 10	E306	Kepler
198	Thesis	1	T. 9	E203	Staff
Engineering, Agric. (AE)					
2	Agricultural Surveying	4	M. W. 1-5	E205	Tingey
12	Irrigation Practice (Lab. F. 2-5)	4	M. W. F. 11	E304	Israelsen
14	Farm Shop Repair Work	2	Arranged	Shop	Egbert
15	Farm Machinery	3	T. Th. 2-5	A206	Powell
16	Tractor Repair and Operation	3	T. Th. 10-12	A206	Powell

*Sectioned Class.

†Enrollment in all classes is limited. Students must register with the instructor of the course personally.

SPRING QUARTER

<i>No. of Courses</i>	<i>Title of Courses</i>	<i>Credit</i>	<i>Time</i>	<i>Room</i>	<i>Instructor</i>
Engineering, Mech. Arts (MA)					
4	Auto Repair (Sec. 1)	3	M. W. F. 8-10	A205	Powell
4	Auto Repair (Sec. 2)	3	M. W. F. 10-12	A205	Powell
5	Auto Care, Adj. & Lubrication	2	M. W. F. 11	A205	Powell
14	Low & High Tension Magnetos	3	T. Th. 8-10	A203	Stock
25	Radio Testing & Trouble Shooting	4	M. W. F. 2-5	A207	Stock
28	Avigation & Aerology	4	M. W. F. 10-12	A203	Stock
102	Auto Repair	3	M. W. F. 2-5	A205	Powell
103	Gas Engine, Carb. & Combustion	3	T. Th. 8-10	A206	Powell
113	Automotive Elect. Equipment	4	T. Th. 2-5	A203	Stock
123	Pract. Elect. for Shop Teachers	4	M. W. F. 8-10	A203	Stock
129	Operation of Short Wave Transmitter & Public Address System	4	T. Th. 2-5	A207	Stock
Forging (MA)					
31	Forge Practice (Sec. 1)	3	M. F. 1-5, W. 2-3	Shop	Egbert
32	Forge Practice (Sec. 2)	2	T. Th. 2-5	Shop	Egbert
33	Forge Practice (Sec. 3)	5	Daily 2-5	Shop	Egbert
35	Forge Shop Operations	2	T. Th. 2-5	Shop	Egbert
36	Forge Shop Operations	3	M. W. F. 2-5	Shop	Egbert
37	Select Work for Forge Practice	2	M. F. 1-3, W. 2-3 or T. Th. 2-5	Shop	Egbert
37	Select Work for Forge Practice	2	M. W. F. 3-5	Shop	Egbert
42	Farm Shop Work	2	M. F. 1-5, W. 2-3	Shop	Egbert
42	Farm Shop Work	2	M. W. F. 3-5	Shop	Egbert
42	Farm Shop Work	2	T. Th. 2-5	Shop	Egbert
43	Fender & Body Repair	2	T. Th. 10-12	Shop	Egbert
131	Adv. Shop Practice	4	M. F. 1-5, W. 2-5	Shop	Egbert
131	Adv. Shop Practice	2	T. Th. 2-5	Shop	Egbert
132	Smith-Hughes Unit	3	M. T. Th. 1-5, W. 2-5	Shop	Egbert
133	Foundry	2	T. Th. 2-5	Shop	Egbert
134	Smith-Hughes Unit	3	M. T. Th. 1-5, W. 2-5	Shop	Egbert
Machine Work (MA)					
51	Machine Shop Practice	4	M. T. W. F. 2-5	Shop	Newey
52	Machine Shop Practice	4	M. T. W. F. 2-5	Shop	Newey
53	Machine Shop Practice	4	M. T. W. F. 2-5	Shop	Newey
54	M. S. P. Short Course (Sec. 1)	2	M. W. F. 10-12	Shop	Newey
54	M. S. P. Short Course (Sec. 2)	3	M. W. F. 9-12	Shop	Newey
54	M. S. P. Short Course (Sec. 3)	2	T. Th. 2-5	Shop	Newey
54	M. S. P. Short Course (Sec. 4)	2	T. Th. 9-12	Shop	Newey
54	M. S. P. Short Course (Sec. 5)	3	M. W. F. 2-5	Shop	Newey
55	M. S. P. Short Course (Sec. 1)	2	M. W. F. 10-12	Shop	Newey
55	M. S. P. Short Course (Sec. 2)	3	M. W. F. 2-5	Shop	Newey
56	M. S. P. Short Course (Sec. 1)	2	M. W. F. 10-12	Shop	Newey
56	M. S. P. Short Course (Sec. 2)	3	M. W. F. 2-5	Shop	Newey
57	M. S. P. Short Course (Sec. 1)	2	M. W. F. 10-12	Shop	Newey
57	M. S. P. Short Course (Sec. 2)	3	M. W. F. 2-5	Shop	Newey
58	M. S. P. Short Course (Sec. 1)	2	M. W. F. 10-12	Shop	Newey
58	M. S. P. Short Course (Sec. 2)	3	M. W. F. 2-5	Shop	Newey
59	M. S. P. Short Course (Sec. 1)	2	M. W. F. 10-12	Shop	Newey
59	M. S. P. Short Course (Sec. 2)	3	M. W. F. 2-5	Shop	Newey
151	General Machine Work	4	M. W. Th. F. 2-5	Shop	Newey
152	General Machine Work	4	M. W. Th. F. 2-5	Shop	Newey
153	General Machine Work	4	M. W. Th. F. 2-5	Shop	Newey
154	Tool Making	4	M. W. Th. F. 2-5	Shop	Newey
155	Tool Making	4	M. W. Th. F. 2-5	Shop	Newey
156	Tool Making	4	M. W. Th. F. 2-5	Shop	Newey
157	Smith-Hughes Machine Course	2-9	Arranged		Newey

SPRING QUARTER

<i>No. of Courses</i>	<i>Title of Courses</i>	<i>Credit</i>	<i>Time</i>	<i>Room</i>	<i>Instructor</i>
Woodwork (MA)					
61	Elementary Woodwork	2	T. Th. 2-5	Shop	Swenson
62	Elementary Woodwork	3	M. W. F. 2-5	Shop	Swenson
63	Elementary Woodwork	2	T. Th. 9-12	Shop	Swenson
64	Mill Work	3	M. W. F. 2-5	Shop	Swenson
65	Mill Work	2	T. Th. 9-12	Shop	Swenson
66	Mill Work	3	M. W. F. 9-12	Shop	Swenson
67	Elementary Wood Turning	2	T. Th. 2-5	Shop	Swenson
68	Elementary Wood Turning	3	M. W. F. 9-12	Shop	Swenson
69	General Woodwork		Arranged	Shop	Swenson
161	Advanced Woodwork	2	T. Th. 2-5	Shop	Swenson
162	Advanced Woodwork	3	M. W. F. 9-12	Shop	Swenson
163	Advanced Woodwork	2	T. Th. 9-12	Shop	Swenson
165	Advanced Pattern Making	2	T. Th. 8-11	Shop	Swenson
167	Building Construction	3	M. W. F. 9-12	Shop	Swenson
168	S. H. Teachers Course	1	T. 2-5	Shop	Swenson
169b	Wood Finishing	2	M. W. F. 8-10	Shop	Swenson
170	Advanced Wood Turning	2	M. W. F. 10-1	Shop	Swenson
171	Advanced Wood Carving	2	T. Th. 9-12	Shop	Swenson
Entomology (See Zoology and Entomology)					
Foods and Dietetics					
21*	Food Study & Meal Preparation (Sec. 2) (Lab. T. Th. 2-5)	5	M. W. F. 2	H26	Kelly
30	Food Economics (Lab. Th. 1-4)	4	M. W. F. 11	H12	Kelly
36	Meal Preparation for Pre-School Children	2	Daily 11	H23	Clayton
111	Nutrition for Athletes	2	T. Th. 9	H26	Clayton
160	Problems in Foods or Nutrition		Arranged		Clayton
192	Readings in Nutrition	2	W. 2-4		Clayton
210	Research in Nutrition & Foods		Arranged		Clayton
Forestry and Range					
116	Planting (Lab. M. 2-5)	3	M. W. 10	L303	Dunn
132	Forest Administration	3	M. W. F. 9	L308	Taylor
136	Related Resources	5	Daily 11	L308	Taylor
Forging (See Engineering) (MA)					
French (See Modern Languages)					
Geology					
5	Natural Economic Resources of Utah and their Utilization	5	Daily 10	M206	Peterson
Geology 5 does not count in Exact Science Group.					
10	Engineering Geology (3 hr. lab.)	5	M. W. Th. F. 9	M283	Bailey
106	General Geology (Historical)	5	Daily 10	M283	Bailey
111	Geology of Ground Water	5	Daily 11	M283	Peterson
113	Paleontology	5	Daily 8	M283	Bailey
114	Field Problems		Afternoons & Saturday		Peterson & Bailey
German (See Modern Languages)					
Health Education (See Physiology)					
History					
3*	European History	5	Daily 9	N310	Merrill
4*	World Civilization	5	Daily 11	N312	Ricks
15*	United States History	5	Daily 10	N314	Ricks
33*	English History	3	M. W. F. 8	N310	Merrill
122	European History	3	M. W. F. 9	N312	Ricks
197	History Seminar	2	T. Th. 9	N312	Ricks

*Sectioned Class.

SPRING QUARTER

No. of Courses	Title of Courses	Credit	Time	Room	Instructor
Home Economics (General and Service Courses)					
(See also Child Development, Foods and Textiles and Clothing Dept.)					
25*	Care of the Sick (Lab. T. 2-5)	2	T. 10	H45	Dancy
125	Mothercraft	3	M. W. F. 10	H45	Dancy
150	Residence in Home Economics Cottage	5	Arranged		Kelly
Horticulture					
1	General Horticulture (Lab. T. 2-5)	3	T. Th. 9	L309	Coe
3	Landscape Gardening (Lab. W. 2-5)	3	T. Th. 10	L309	Coe
9	Vegetable Forcing	2	Arranged	L309	Wilson
108	Small Fruits (Lab. M. 2-5)	3	T. Th. 11	L309	Wilson
111	Orchard Practice	1	Arranged	L309	Coe
125	Plant Materials	2	Arranged	L309	Coe
Ignition (See Engg.) (MA)					
Irrigation (See Engg.) (MA)					
Marketing (See Ag. Econ.) (See also Bus. Adm.)					
Mathematics					
34	Introduction to College Algebra	5	Daily 8	N314	Egbert
35	College Algebra	5	Daily 9	N314	Egbert
46*	Trigonometry (Sec. 1)	5	Daily 8	E205	Tingey
46*	Trigonometry (Sec. 2)	5	Daily 9	M359	Linford
75	Elementary Statistical Methods	5	Daily 9	E205	Tingey
99	Calculus	5	Daily 10	E205	Tingey
122	Differential Equations	3	M. T. Th. 1	W101	Linford
152	Partial Differential Equations	3	T. Th. F. 1	W101	Linford
162	Seminar		Arranged		Staff
Mechanical Drawing (See Engg.) (CE)					
Military Science and Tactics					
First Year Basic					
3†	Entire class meets. Also in sections as follows: Sec. 1 T. 9, Sec. 2 T. 11, Sec. 3 T. 11, Sec. 4 W. 8, Sec. 5 Th. 8, Sec. 6 Th. 10. Students must arrange to take one of the above section.	1	T. Th. 1	M1	Waller Goodrich
Second Year Basic					
6†	Entire class meets. Also in sections as follows: Sec. 1 T. 9, Sec. 2 T. 11, Sec. 3 Th. 8, Sec. 4 Th. 10. Students must arrange to take one of the above section.	1	T. Th. 1	M1	Pitzer
103	First Year Advanced	3	M. W. F. 10	M1	Pitzer
106	Second Year Advanced (also one 2 hour period for field work to be arranged)	3	M. W. F. 11	M1	Goodrich
Modern Languages					
3	French (Sec. 1)	5	Daily 9	N316	Arnold
3	French (Sec. 2)	5	Daily 8	N312	Fogelberg
3a	French—Grad.	3	M. W. F. 8	N316	Arnold
3	Latin	3	T. Th. 11, W. 12	N316	Arnold
2	Spanish	3	M. W. F. 10	N316	Arnold
103	French	3	M. W. F. 11	N316	Arnold

*Sectioned Class.

†Must obtain registration card from Military Department.

SPRING QUARTER

<i>No. of Courses</i>	<i>Title of Courses</i>	<i>Credit</i>	<i>Time</i>	<i>Room</i>	<i>Instructor</i>
106	French	1	M. 1	N316	Arnold
121	French	2	T. Th. 1	N316	Arnold
112	French		Arranged	N316	Arnold
19	English	3	T. Th. 10, F. 1	N316	Arnold
3	German (Sec. 1)	5	Daily 8	M356	Jensen
3	German (Sec. 2)	5	Daily 10	M356	Jensen
103	German	3	M. W. F. 11	M356	Jensen
106	German		Arranged		Jensen
120	German	3	T. Th. 11, M. 12	M356	Jensen
Music					
10	Sight Singing	3	M. W. F. 11	M130	Welti
13*	Harmony (Sec. 1)	3	M. W. F. 9	M130	Welti
13*	Harmony (Sec. 2)	3	M. W. F. 10	M133	Christiansen
17	Orchestra Combinations	½	Arranged	M133	Christiansen
20	Symphony Orchestra	1½	M. F. 12-2	M133	Christiansen
23	Band B	1	T. Th. 12-2	M132	Torbensen
26	Men's Glee Club	1	M. W. F. 12	M130	Welti
29	Ladies' Glee Club	1	T. Th. 12	M130	Welti
37	Vocal Groups	1	Arranged	M130	Welti
43	Band A	1½	T. Th. 12-2, W. 12	M133	Christiansen
46	Brass and Reed Groups	½	Arranged	M133	Christiansen
52	Piano (Private)	1½-3	Arranged	M133	Assoc. Teachers
55	Vocal (Private)		Arranged	M130	Welti & Assoc. Teachers
58	Wind Instruments (Private)	1½-3	Arranged		Christiansen
62	Violin (Private)	1½-3	Arranged		Christiansen
113	Counterpoint	3	M. W. F. 9	M133	Christiansen
122	Band and Orchestra Methods	2	T. Th. 11	M133	Christiansen
135	Counterpoint	3	Arranged	M130	Welti
152	Piano (Private)	1½-3	Arranged		Assoc. Teachers
155	Vocal (Private)	1½-3	Arranged		Welti & Assoc. Teachers
158	Wind Instruments (Private)	1½-3	Arranged		Christiansen
162	Violin (Private)	1½-3	Arranged		Christiansen & Assoc. Teachers
165	Pipe Organ (Private)	1½-3	Arranged		S. E. Clark
Physical Education					
Activity Classes for Men and Women					
60	Hiking	1	Arranged	G	Grace
62	Archery (Sec. 1)	1	M. W. F. 9	G	Grace
62	Archery (Sec. 2)	1	T. Th. F. 2	G	Jenson
65	Recreative Games	1	T. Th. 10	G	
67	Tennis (Sec. 1)	1	M. W. F. 9	G	
67	Tennis (Sec. 2)	1	M. W. F. 1	G	
67	Tennis (Sec. 3)	1	M. W. F. 12	G	Jenson
67	Tennis (Sec. 4)	1	M. W. F. 8	G	Jenson
67	Tennis (Sec. 5)	1	T. Th. F. 12	G	Jenson
70	Elem. Tap Dancing	1	M. W. F. 10	G	Grace
71	Social Dancing	1	T. Th. 11	G	Grace
72	Golf	1	M. W. F. 11	G	Croft
73	Soft Baseball	1	M. W. F. 8	G	Jenson
78	Parler Games	1	T. Th. 1	G	
170	Advanced Tap Dancing	1	M. W. F. 11	G	Grace
Activity Classes for Men					
3	Ping Pong	1	M. W. F. 9	G	Jenson
6	Horseshoes (Sec. 1)	1	M. W. F. 9	G	Jenson
6	Horseshoes (Sec. 2)	1	M. W. F. 10	G	Jenson

*Sectioned Class.

SPRING QUARTER

No. of Courses	Title of Courses	Credit	Time	Room	Instructor
6	Horseshoes (Sec. 3)	1	M. W. F. 11	G	Jenson
6	Horseshoes (Sec. 4)	1	T. Th. F. 12	G	Jenson
12	Track	1	Arranged	G	Jenson
15	Handball (Sec. 1)	1	M. W. F. 9	G	Jenson
15	Handball (Sec. 2)	1	M. W. F. 10	G	Jenson
15	Handball (Sec. 3)	1	M. W. F. 11	G	Jenson
15	Handball (Sec. 4)	1	T. Th. F. 12	G	Jenson
15	Handball (Sec. 5)	1	T. Th. F. 2	G	Jenson
18	Elementary Swimming	1	M. W. F. 3	G	Jenson
21	Elementary Tumbling	1	M. W. F. 10	G	Jenson
24	Basketball	1	M. W. F. 12	G	Jenson
27	Individual Gymnastics	1	Arranged	G	Jenson
Activity Classes for Women					
42	Speedball and Soft Baseball (Sec. 1)	1	T. Th. 9	G	
42	Speedball and Soft Baseball (Sec. 2)	1	M. W. 10	G	
42	Speedball and Soft Baseball (Sec. 3)	1	M. F. 1	G	
47	Individual Gymnastics	1	Arranged	G	Grace
50	Elementary Natural Dancing	1	M. W. F. 2	G	Grace
53	Elementary Swimming (Sec. 1)	1	M. W. F. 12	G	Grace
53	Elementary Swimming (Sec. 2)	1	T. Th. F. 12	G	
55	Red Cross Life Saving	1	M. W. F. 2	G	Grace
143	Advanced Natural Dancing	1	M. W. F. 3	G	Grace
146	Advanced Folk Dancing	1	T. Th. F. 12	G	Grace
Professional Courses					
83	Community Recreation	3	M. W. F. 10	G	Jenson
93	Competitive Activities for Women	1	T. Th. 2	G27	
111	Nutrition for Athletes	2	T. Th. 9	H26	Clayton
180b	Practice in 180a		Arranged		Grace
181	Corrective Physical Education (Men)	5	Daily 2	G27	Jenson
186	Advanced Gymnastics	2	Daily 4	G	West
190	Methods of Coaching	1	Daily 4	Stad.	Romney
191	Physical Diagnosis	3	M. W. F. 11	G27	Preston
Physics					
1*	General Physics (Sec. 1)	5	Daily 8	W101	West
1*	General Physics (Sec. 2)	5	Daily 11	W101	Linford
22	Heat, Light and Sound (Lab. M. W. or T. Th. 2-5)	5	M. W. F. 9	W101	West
108	Adv. Lab.	1	F. 2-5	W101	West
118	Thermodynamics for Engineers	3	M. W. F. 10	W101	West
121	Modern Physics	2	T. Th. 11	W101	West
192	Theoretical Physics	3	M. W. F. 9	W101	Gardner
211	Theoretical Mechanics	2	T. Th. 9	W101	Gardner
220	Atomic St. & Thermodynamics	2	M. W. 11	W101	West
252	Research		Arranged		West
Physiology					
4*	Anatomy and Physiology (Sec. 5)	5	Daily 9	M132	Dancy
4*	Anatomy and Physiology (Sec. 6)	5	Daily 10	M132	Carter
5	General Physiology Lab. (Sec. 6)	1	T. 2-5	M29	Carter
5	General Physiology Lab. (Sec. 6)	1	W. 2-5	M29	Carter
14*	Health Education	4	M. T. W. F. 11	M132	Carter
Health Education cannot be used in Biological Science group.					
109	Public Health and Hygiene	3	M. W. F. 8	M132	Carter
110	Advanced Physiology	2	T. Th. 8	M132	Carter
117	Journal Club	1	Arranged	M132	Carter
170	Physical Diagnosis	3	M. W. F. 11	G27	Preston

*Sectioned Class.

SCHEDULE OF COURSES

293

SPRING QUARTER

No. of Courses	Title of Courses	Credit	Time	Room	Instructor
Political Science					
13	Commercial Law	3	M. W. F. 8	M360	Bullen
106	Commercial Law	3	T. Th. 8, M. 12	M360	Bullen
120	Relation of Government to Industry	3	M. W. F. 10	M352	Wanlass
203	Current Political Problems	1	Th. 11	M352	Wanlass
Poultry					
1	General Poultry	3	M. W. F. 9	L205	Alder
2	General Poultry (Lab. M. 2-5)	4	M. W. F. 9	L205	Alder
3	General Poultry for H. E. Students	2	T. Th. 10	L205	Alder
10	Poultry Practice		Arranged	L205	Alder
104	Incubation and Brooding	2	T. Th. 9	L205	Alder
125	Special Problems		Arranged	L205	Alder
127	Adv. Poultry Practice		Arranged	L205	Alder
Public Speaking (See English)					
Psychology					
3*	Elementary Psychology (Sec. 3)	5	Daily 9	M279	Peterson
103	Psychology of Adolescence	3	T. Th. 8, M. 1	M279	Peterson
110	Psychology of Infancy and Childhood	3	M. W. F. 10	M279	Peterson
Radio (See Engg.) (MA)					
Range Management (See Forestry)					
Secretarial Science (See Bus. Adm.)					
Sociology					
4*	Social Relations (Sec. 4)	3	M. W. F. 11	M279	Hendricks
61	Women and Culture	2	T. Th. 9	M280	Hendricks
70	Principles of Sociology (Sec. 4)	3	M. W. F. 10	M204	Hendricks
100	Applied Educational Sociology	3	M. W. F. 9	M206	Geddes
125	Labor Problems	3	Arranged	M206	Geddes
150	Environmental Factors in Child Life	3	M. W. F. 8	M206	Geddes
171	Problems of the Family	3	M. W. F. 9	M356	Hendricks
185	Community Organization	3	M. 1, T. Th. 8	M206	Geddes
192	Sociology Seminar	1	T. 4	M206	Geddes
201	Social Research	5	Arranged	M206	Geddes
Stenography (See Bus. Adm.)					
Speech (See English)					
Textiles and Clothing					
1*	Elementary Clothing	3	T. Th. 2-5	H33	Moen
5	Clothing Appreciation	2	M. W. 11	H36	Crockett
11*	Clothing Selection & Construction (Sec. 3)	3	M. W. 2-5	H33	Moen
11*	Clothing Selection & Construction (Sec. 4)	3	T. Th. 2-5	H36	Crockett
30	Millinery	3	M. W. F. 2-4	H36	Crockett
125	Applied Costume Design	3	T. Th. 10-1	H36	Crockett
140	Applied Decoration	3	M. W. F. 11	H33	Moen
162	Advanced Problems in Clothing	2	T. Th. 11-1	H33	Moen
190	Special Problems in Clothing		Arranged		Moen
Typewriting (See Bus. Adm.)					
Veterinary Science					
22	Comparative Veterinary Anatomy	3	T. Th. 10, F. 1	L203	Frederick
42	Physiology	3	M. W. F. 9	L203	Frederick
52	Veterinary Clinics (Lab. 2-5)	1-2	M. 2-5	V. C.	Frederick
107	Hygiene and Inf. Disease (Lab. M. 2-5)	4	T. Th. 8, M. 1	L203	Frederick
119	Anatomy & Physiology	3	M. W. F. 11	L203	Frederick
131	Obstetrics	2	T. Th. 11	L203	Frederick

*Sectioned Class.

SPRING QUARTER

<i>No. of Courses</i>	<i>Title of Courses</i>	<i>Credit</i>	<i>Time</i>	<i>Room</i>	<i>Instructor</i>
Woodwork (See Engg.) (MA)					
Zoology and Entomology					
1	Principles of Zoology (Lab. T. or F. 2-5)	5	Daily 11	M227	Henderson
104	Systematic Entomology (Lab. T. and 2 others)	3	T. 2-5	M227	Henderson
105	Forest Entomology (Lab. Th. 2-5)	2	T. Th. 11	M206	Stanford
112	Genetics	5	Daily 10	M227	Henderson
116	Parasitology (Lab. M. W. 2-5)	5	M. W. F. 9	M227	Stanford
119	Vertebrate Embryology (Lab. T. F. 2-5)	3	T. 1	M227	Stanford
126	Seminar	1	Arranged	M227	Staff
131	Organic Evolution	3	T. Th. 8, M. F. 1	M227	Henderson

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