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Summer 1934

## General Catalogue 1934, Summer

Utah State University

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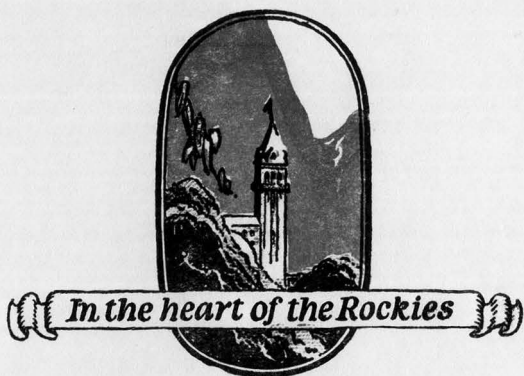
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1934

*Summer School  
Catalogue*

June 11 to July 20

UTAH STATE AGRICULTURAL COLLEGE  
LOGAN, UTAH

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COLLEGE BULLETINS

Published by the Utah State Agricultural College at Logan, Utah  
Issued Bi-Monthly, Vol. 34, No. 1  
January, 1934.

Utah State Agricultural College  
**BULLETIN**

**Announcement for 1934 Summer Session**

**PLEASE BRING THIS BULLETIN WITH YOU WHEN YOU COME  
TO REGISTER**

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 for in Section 1103, Act of October 3, 1917, authorized August 22, 1918.

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## VISITING FACULTY 1934 SUMMER SESSION

Lofter Bjarnason, M.A. .... Former Utah State Supervisor  
 Grammar Grades and Junior Hi School  
 Hazel Brockbank, M.A. .... Utah State Supervisor Primary Grades  
 John W. Bunn, B.S. .... Basket-ball Coach, Stanford University  
 H. O. "Fritz" Crisler, B.S. .... Football and Basket-ball Coach,  
 Princeton University  
 Thomas N. Carver, Ph.D. .... Professor Economics, Harvard Univer-  
 sity, Special Lecturer  
 Ephriam E. Erickson, Ph.D. .... Professor of Philosophy, University of  
 Utah  
 David Ericson, Artist. .... Provincetown A.A, Paris A.A.A  
 Awards: Silver Medal St. Louis  
 Exposition, 1904, Honorable mention,  
 Carnegie Institute 1904 First prize  
 Minnesota Art Exposition 1911, Work  
 found in numerous museums.  
 Elbert K. Fretwell, Ph.D. .... Professor of Education, Columbia  
 University  
 L. M. Gould, Ph.D. .... Professor of Geology, Carleton College  
 Member of Admiral Byrd's former  
 Antartic Expedition  
 Helen Heffernan, M.A. .... Chief of the Division of the California  
 Elementary and Rural Schools  
 Caroline B. Hedger, M.D. .... McCormick Memorial Foundation  
 Calvin B. Hoover, Ph.D. .... Professor of Economics, Duke  
 University  
 A. R. McAllister. .... Director Joliet Township High School  
 and Junior College Band  
 Alexander Meiklejohn, Ph.D. .... Professor of Philosophy, University of  
 Wisconsin, Special lecturer  
 Henry Neumann, Ph.D. .... Director Brooklyn Society of Ethical  
 Culture, Special lecturer  
 rvin S. Noall, M.A. .... Utah State Supervisor of Trades and  
 Industrial Education  
 Preston Pond, B.S. .... Instructor in Scouting  
 Chester O. Reed, M. A. .... Professor Agricultural Engineering,  
 Ohio State College  
 ohn Sundwall, Ph.D. .... Director of the Division of Public  
 Health, University of Michigan

**RESIDENT FACULTY**

(Arranged Alphabetically)

Frank Russell Arnold, M.A.....	Professor of Modern Languages
William H. Bell, B.S., M.S.....	Registrar
Russell E. Berntson.....	Secretary, Treasurer and Purchasing Agent
Edith Bowen, B.A., M.A.....	Supervisor Training School
Vera Carlson.....	Secretary to the President
Ezra G. Carter, Dr., P.H.....	Associate Professor of Public Health and Physiology
N. Woodruff Christiansen, B.S.....	Assistant Professor of Instrumental Music
Christine Bockholt Clayton, M.S.....	Professor of Foods and Dietetics, Dean, School of Home Economics
Samuel Roy Egbert, B.S.....	Assistant Professor of Forging
Robert J. Evans, Ph.D.....	Professor of Agronomy
Thelma Fogelberg, B.S., A.M.....	Assistant Professor of Stenography and Business Practice
Calvin Fletcher, B. Pd.....	Professor of Art
Joseph Arch Geddes, Ph.D.....	Professor of Sociology
Geneva Grace, B.S.....	Instructor in Physical Education
William W. Henderson, M.A., Ph.D.....	Professor of Zoology and Entomology
Caroline M. Hendricks, B.S., M.S.....	Professor of Sociology
Reuben Lorenzo Hill, Ph.D.....	Professor of Chemistry
LeGrand R. Humpherys, B.S.....	Utah State Supervisor of Agricultural Education
Ernest A. Jacobsen, A.M., Ed.D.....	Professor of Education, Acting Dean School of Education
Joseph R. Jenson, A.B., A.M.....	Associate Professor of Physical Education
Charlotte Kyle, B.S., M.A.....	Associate Professor of English
Leon B. Linford, Ph.D.....	Associate Professor of Mathematics
Sherwin Maeser, Ph.D.....	Associate Professor of Chemistry
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Aaron Newey, B.A.....	Associate Professor of Machine Work
Niels Alvin Pedersen, A.M., Ph.D.....	Professor of English and Speech Dean, School of Arts and Sciences

Parley Erastus Peterson, A.B., C.P.A.	Professor of Accounting
William Peterson, B.S.	Professor of Geology, Director Extension Division
Don Warren Pittman, M.A.	Professor of Soils in the Department of Agronomy
C. Lester Pocock, B.S.	Director, Information and Publicity Service
Alfred H. Powell	Associate Professor of Farm and Auto Mechanics
Bert Lorin Richards, A.M., Ph.D.	Professor of Botany and Plant Pathology
Joel Edward Ricks, A.M., Ph.D.	Professor of History
E. Lowell Romney, B.A.	Director of Athletics
H. Harry Smith, M.S.	Assistant Professor of Animal Husbandry
Hattie Smith	Assistant Librarian
Mary Sorenson	Assistant Librarian
J. Sedley Stanford, Ph.D.	Assistant Professor of Zoology and Entomology
Sidney Stocks, B.S.	Assistant Professor of Farm and Auto Mechanics
D. A. Swenson, B.S.	Assistant Professor of Wood Work
Delmar C. Tingey, B.S., M.A.	Assistant Professor of Agronomy
Wallace J. Vickers, A.M., Ph.D.	Associate Professor of English
William L. Wanlass, M.A., Ph.D.	Professor of Economics, Dean, School of Commerce
F. B. Wann, A.B., Ph.D.	Associate Professor of Plant Physiology
Walter Welti, B.A.	Assistant Professor of Vocal Music
Ray B. West, B.S., C.E.	Professor of Engineering, Dean, School of Engineering and Mechanic Arts
Vance H. Tingey, B.S., M.S.	Assistant Professor of Mathematics

### UTAH STATE AGRICULTURAL COLLEGE SUMMER SESSION 1934

The Utah State Agricultural College will conduct the twenty-eighth annual session of its summer school at Logan, Utah, June 11 to July 20, 1934. These summer sessions have come to be known throughout the country because of the very efficient faculties that have been assembled, because of the delightful climate for summer study, and also because of the amazing wealth of plant and animal life and geological formations within easy reach of the college campus.

The Utah State Agricultural College offers ideal conditions for a summer school that will appeal to students and teachers throughout the intermountain region. The Institution, 4778 feet above sea level, is located in a beautiful

mountain valley in Northern Utah. The surrounding mountains furnish an abundance of cool, refreshing air all summer long. The valley sides present a delightful mosaic, surrounded by the Wasatch Mountains, whose canyons, lakes, and peaks furnish rare opportunities for a summer vacation.

The College is centrally located in the heart of scenic America, half way between the Yellowstone National Park on the north and the Grand Canyon of the Colorado on the south. Great Salt Lake is within a few hours drive by auto from the College Campus while Bear Lake, aptly called "The Lake Geneva of the Rockies" nestling, as it does, in a high valley, is a scant 40 miles from Logan through beautiful Logan Canyon. Other points of interest within touring distance of the College Campus are Zion Canyon, Bryce Canyon, Cedar Breaks, the home of the Cliff Dwellers, all in southern Utah, and the dinosaur quarries in eastern Utah.

### A SUMMER VACATION

Arrangements have been made by the College whereby students may pitch their tents on the campus and camp out while they are going to summer school. A delightful place has been provided for this purpose, equipped with electric lights and supplied with running water. A rental fee of \$3.00 will be charged for this service. Logan city, cooperating with the college, has also made available the city park just five miles from the campus in Logan Canyon. Here students who bring their camp outfits may live, making of their summer study a real vacation.

### ADMISSION AND CREDITS

The college is on the Accepted List of the Association of American Universities, consequently students may feel assured that their credits will be accepted by other colleges and universities. Students will be directed to those courses they can pursue to the best advantage. A varied and extensive offering of courses is made. Seven and one-half credit hours is a normal course but nine credit hours may be taken without special permission. Students may however, register for one additional hour in physical education.

### REGISTRATION

Students will register on Monday, June 11 from 7:00 a. m. to 11:00 a. m. or on any afternoon following. Class work begins Monday, June 11 at 12:30 p. m. Students registering later than Monday, June 18 will have the number of credits for which they may register reduced one and one-half hours and a further reduction of one and one-half hours will be made for each week thereafter.

### GRADUATE CREDIT

Summer quarter 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 Chairman of the Committee of Graduate work 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.

Students in Agriculture wishing to do graduate work during the summer school may register for the regular summer school work and be assigned to specific duty with members of the Experiment Station Staff who will give them the privilege of doing experimental work during the summer. Credit will be given for this work toward an advanced degree. Students who anticipate taking advantage of this opportunity will profit by applying early so that the particular work in which they are interested may be arranged in connection with the summer program.

See under Requirements for Advanced Degree in General Catalogue.

### EXPENSES

The registration for the full term is \$15.00; for each of the two weeks courses, \$6.00 unless three of the two weeks courses are chosen, the total fee is then \$15.00; for a single course of not to exceed two and one-half credits, \$6.00. In certain of the laboratory courses, students are charged an additional fee of 50 cents a credit hour.

Coaching School Fee \$10.00.

Good board and rooms at prices ranging from \$4.00 to \$5.00 a week can be secured in private homes.

The college cafeteria will be open during the session and midday meals will be served at cost. Daily lunches will also be served at the College Dairy.

### RECREATION

Any Summer School to be vital must do at least two things: it must maintain the scholastic standing of the institution of which it is a part and it must also create such an environment as will renew and revivify its students whose work during the winter months has been exacting and consequently exhausting.

The Utah State Agricultural College Summer Sessions meet these conditions ideally. Its beautiful campus is situated about two miles from scenic Logan Canyon whose morning and evening breezes bathe the campus and surrounding territory with a cool, invigorating ozone laden atmosphere a direct opposite to the hot suffocating atmosphere of the lower valleys where summer schools are usually located. In Logan one may have a delightfully cool sleeping apartment where a blanket is often a luxury, even the days are hot only in rare cases and then the welcome shade trees and bowers, abundant on the campus, make delightful even these warmest hours.

A visiting faculty member said:

"In the whole range of mountain region there is no institution more beautifully located than the Utah State Agricultural College. On a high terrace left centuries ago by the recession of Lake Bonneville—with a delightful out-look across one of the richest and greatest of plains—above a wholesome little city, the prospect walled in by high mountains cut by rugged gorges through which rush clear trout streams smothered in Box Elder—the setting could not be finer.

"Summer work in this cool mountain atmosphere cannot fail to be restful and strengthening in a high degree, far more so than in the crowded session of a city university."

(Signed) David Starr Jordan,  
President Emeritus, Stanford University.

The democratic and social atmosphere, augmented by these wonderful climatic conditions, together with the wholesomeness of the association of faculty and students in receptions, excursions, hikes, etc., make the college summer session one round of delight.

Opportunities for recreation on the College Campus are varied. The large swimming pool furnishes opportunities for aquatic sports while extensive facilities exist for baseball, basketball, handball, volleyball, tennis and other sports under the supervision of the physical directors.

### FIELD TRIPS AND EXCURSIONS

During the 1934 Summer Session the College will conduct weekly nature study hikes led by specialists from the College faculty, who will introduce students directly to the plants, the animals, and the geology of the Cache Valley region.

These hikes will be open to all students of the school and their friends. Cache Valley and Logan Canyon afford unparalleled opportunities to study plant life and animal life and Geologic formations, while Bear River Bay, to which an excursion may be taken, is only 35 miles from the College Campus, and affords one of the very finest opportunities for the study of bird life. It is the site of a large game preserve under government control.

### TEACHERS' BUREAU

A teachers' bureau has been organized in connection with the summer school. All teachers seeking employment may register in this bureau. Superintendents and others who employ teachers will find it to their advantage to consult the list of applicants. These lists will be furnished upon application.

### SPECIAL LECTURES

A series of special lectures has been organized dealing with social and economic conditions, given by men who are nationally famous in their particular fields. These lectures will be given daily at 11:00 a.m. and on two or more evenings a week at 7:30 p. m. No class periods have been scheduled for these hours thus enabling students to hear all those eminent speakers without interfering with their course work. No credit will be allowed for attendance at these lectures.

### SUMMER SCHOOL DRAMA

One of the attractions of the Summer Session is the drama that is annually staged by the students under the direction of the department of English and Speech. The play chosen for production is always one of great merit.

### INTERSESSION WORK

An intersession period of not to exceed four weeks will begin immediately after the close of the regular session. Five quarter hours of credit is the maximum which may be earned during four weeks. If a course of fewer credits is desired, length of session will depend upon the amount of credit. Fifteen hours of recitation work shall be the maximum allowed per week. All credit shall be computed on the basis of one quarter hour of credit for 12 one-hour lecture periods (each lecture period requiring two hours of outside preparation on the part of the students) or 12 three-hour laboratory periods. Only those courses regularly scheduled in published catalogues will be given and credits will be recorded only as announced in the catalogues. Classes will be organized in response to students' requests only. A sufficient number must apply in each case to warrant organizing the class. Registration, including payment of fees, must be taken care of before students will be permitted to attend classes. Registration forms shall not in any case be accepted after the close of the intersession period.

Students who desire to register for credit in research problems or field studies must make special arrangement with the registrar's office during the intersession period. Credits allowed and fees charged will depend upon time spent and work accomplished.

Courses may not be given if fewer than five students apply.

### TEACHERS' CERTIFICATION

By attending the Summer Session of the Utah State Agricultural College, it is possible to meet any of the requirements for Utah Certification with the exception of practice teaching; and since the college is on the Accepted List of the Association of American Universities, credit will be allowed for any subject completed in the Summer School that forms part of the certification requirements of any state.

## Courses of Instruction

### AGRONOMY AND SOILS

R. J. Evans, Professor  
D. W. Pittman, Professor  
D. C. Tingey, Assistant Professor

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 and one-half credits. Daily, 9:00. Room P201. Evans  
Tingey

110. **Soil Fertility.** Principles of soil fertility; fertilizers and their productive use; review of experimental work in America and Europe. Prerequisites, Chemistry 10 and Agronomy 6. Two and one-half credits. Daily, 8:00. Room P204.

### ANIMAL HUSBANDRY

E. J. Maynard, Professor  
Harry H. Smith, Associate Professor

155. **Animal Breeding.** Includes a practical study of the principles which underlie the breeding and improvement of farm animals, methods and practices of breeding, a study of inbreeding, out crossing, line breeding, heredity variations and allied subjects. Two credits. M.T.W.Th., 8:00 and 9:00. Room 207 Livestock Building. Smith

**Note.** Any course in this department is open if a sufficient number of students apply.

### ART

Calvin Fletcher, Professor  
David Ericson, Professor

52. **Methods of Teaching Design and Color in the Public Schools.** Two and one-half credits. Daily 8:00. Room M355. Fletcher

4, 5, 106, 108, 208. **Painting, Landscape, Still Life, and Portrait Painting.** Outdoor criticism Thursday 3:00 to 6:00. Study help, daily except Saturday 9-11 a. m. Weekly general criticism, Tuesday at 12:00. Students may work any time, thirty hours of work being required for each credit obtained. Not more than eight credits may be obtained during the session. Room M330. Ericson

103. **Appreciation of Painting.** Lectures on understanding the aims and ideals in painting. M.W. and F. 12:30. Ericson

### STUDIO WORK

Students may register for one to eight credits of work in any of the following courses. Thirty hours work must be completed for each credit.

Criticism and direction given daily except Saturday, 10:00 and 1:00. Room M330. Fletcher

11. Pottery. Elementary processes. Two credits.
  13. 116. Art Metalry. Copper and silver-smithing.
  14. 118. Leather Work. Tooling, modeling, finishing.
  15. Basketry. Reed, raffia, or grass basketry.
  16. 119. Wood Ornamentation. Elect any of the following:
    - Enameling and jesso
    - Gilding
    - Lacquer
  17. 120. Fabric Decoration. Elect any of the following:
    - Tie and dye plastic embroidery
    - Batik
    - Block Printing
    - Stenciling
    - Lamp Shade Decoration
  7. 110. Illustration: Choose any of the following:
    - Pen and Ink Technic
    - Scientific Illustration
    - Cartooning
    - General Illustrating
    - Costume Illustrating
  10. 113. Show Card and Sign Writing or Poster Work. Fletcher
  12. 115. China Painting if six apply.
  11. Advanced Design. Elect one of the following lines of work, A, B, C. or D.
    - A. Interior Decoration
      - Sketching Designs of Walls and Interiors
      - Furniture Designing
      - Wood Carving
      - Picture Framing
    - B. Advanced Costume Design
    - C. Architectural Composition
    - D. Textile, Wallpaper, Commercial Design.
  7. 109. Modeling in Clay, Plaster Casting etc.
- Note:** Student's work is subject to retention for exhibition purposes. Fletcher

### BOTANY

B. L. Richards, Professor

F. B. Wann, Associate Professor

**Botany 1.** A general course dealing with the structure, growth, nutrition, reproduction, and kinds of plants. This course is especially adapted to meet

the needs of teachers of biology, and is recognized as fulfilling requirements for admittance to advanced courses in the Botany department. Four credits. Lecture and laboratory, M.T.W.Th. 1:30 to 5:00. Room P102.

Richards  
Wann

## BUSINESS ADMINISTRATION AND ACCOUNTING

P. E. Peterson, Professor  
Thelma Fogelberg Assistant Professor

### Accounting

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. Two and one-half credits. Daily, 7:00. Peterson

152, 153. **Problems in Merchandising.** The aim of which 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. Five credits. Daily, 8:00 and 9:00. Room M302. Peterson

### Secretarial

75. **Elementary Shorthand.** Thorough drill in the fundamental principles of the Gregg System of shorthand which are covered during the course. Five credits. Daily, 8:00 and 12:30. Room M305. Fogelberg

78. **Shorthand. Advanced Theory.** This course finishes Gregg Shorthand Theory. A review is given of the entire manual with advanced vocabulary development. Pre-requisites: Shorthand Theory 75 and 76; Typewriting 89. Average rate of dictation; 80 words a minute. Two and one-half credits. Daily, 9:00. Room M305. Fogelberg

86. **Typewriting 1.** This course is designed to develop correct technique, includes Position, Syllable, Word and Sentence Drills, Stroke-Rhythm, Number, and Shifting Drills; Mechanical Mastery of Key-board, Introduction of "Time" Writing, Finger Exercises, Analysis of Errors; Average Speed, 20 words a minute. One credit. Daily, 10:00. Room M303. Fogelberg

## CHEMISTRY

R. L. Hill, Professor  
Sherwin Maeser, Professor

1. **Introductory Chemistry.** Offered for those students who desire only a brief survey of chemistry and have not had a course in high school chemistry. Two lectures or recitations daily. Five credits. Daily, 10:00 and 1:30 Widtsoe Hall. Maeser

102. **Quantitative Analysis.** This corresponds to the first term of the regular course of quantitative analysis offered in the winter term. Two quiet periods and ten hours of laboratory work each week. Three credits. Time to be arranged. Widtsoe Hall. Maeser

## ECONOMICS

W. L. Wanlass, Professor  
Calvin B. Hoover, Professor

148. **Economic Systems.** A comparison of the economic systems of capitalism, socialism, communism, and fascism with particular reference to the United States, Soviet Russia, Italy and National Socialist Germany. Two and one-half credits. Daily, 9:00. Room M357.

Wanlass  
Hoover

149. **Economic Functions of Government.** A study of the role of the state in the economics of capitalism with an analysis of these functions under the Recovery Program. Two and one-half credits. Daily, 10:00. Room M357.

Wanlass  
Hoover

205. **History of Economic Doctrines.** A critical analysis of the origin and development of the economic theories of the leading thinkers in the principal nations from 1750 to the present time. Pre-requisites: Upper division or graduate standing and previous collegiate courses in economics. Daily, 8:00. Room M357.

Wanlass

## EDUCATION AND PSYCHOLOGY

E. A. Jacobsen, Professor  
E. K. Fretwell, Professor  
Helen Heffernan, Professor  
Hazel Brockbank, Professor  
Lofter Bjarnason, Professor  
Irvin Noall, Professor  
C. E. McClellan, Associate Professor  
L. R. Humphreys, Associate Professor  
Edith Bowen, Supervisor of Training School  
Preston Pond, Instructor

102. **Advanced Educational Psychology**—Open to students who have had Psychology 101 or equivalent. A study of the behavior of adolescence. Two and one-half credits. Daily, 8:00. Room M280.

Bjarnason

105. **The Elementary Curriculum.** The purposes of elementary education, the organization of instruction, typical courses of study, materials and methods, adaptation to individuals interests and needs. Special emphasis on science and social studies as the integrating centers of instruction. One and one-fourth credits. Daily, 10:00. June 11-29. Room M280.

Heffernan

108. **The Elementary School Library.** The course is planned to show the relationship of books to progressive teaching technique; to give first-hand acquaintance with desirable books for the elementary school; and to suggest means for making the operation of the school library effective. Two and one-half credits. Daily, 9:00. Anna Carroll Moore Library.

Bowen

111. **Science of Education.** The historical development of secondary education in America. A study of the physical, intellectual, social characteristics of the secondary school pupil. Analysis of the aims and functions of secondary schools. The secondary school curriculum. Two and one-half credits. Daily, 9:00. Room M279. McClellan

112. **Rural Education.** The organization of instruction in rural schools. Individual guidance will be provided in the preparation of units of work adaptable to heterogeneous age and grade groups. The program, improvement of environment, individual differences, economic and social aspects of rural life, use of educative rural resources, and community relationships will be emphasized. One and one-fourth credits. Daily, 12:30. Room M289. Heffernan

113. **Seminar in Elementary Education.** Critical study of the problems encountered in the class room where there are two or more grades. Such problems as the daily program, content and technique of class room work and standards will be cooperatively studied. Two and one-half credits. Daily, 10:00 and 12:30. July 2 to July 20. Room M280. Brockbank

114. **Modern Methods in Secondary School Teaching.** Various principles of method, procedures, technique, and devices will be considered and an attempt made to indicate their place and value. Two and one-half credits. Daily, 8:00 and 10:00. Room M279. July 2 to July 9. McClellan

118. **Scoutmastership.** A course dealing with fundamental principles and practices in scouting. Specialized units in camping, hiking, craftsmanship, scout supervision will be included. One and one-fourth credits. Daily, 1:30. June 11 to June 29. Pond and Staff

121. **Organization and Administration of Education.** This course is designed to provide a general knowledge of the administration of the American public school system with special reference to Utah conditions. Topics discussed will include national, state, and local administration; finance, relationship of school units, pupil administration; personnel problems of teaching. Two and one-half credits. Daily, 12:30. Room M279. Bjarnason

123. **Diagnostic and Remedial Work in Education.** A study of the application of diagnostic tests to the technique of learning. The discovery of individual difficulties in learning procedures and the application of specific remedial measures to learning difficulties. Two and one-half credits. Daily, 9:00. Room M280. Jacobson

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. Two and one-half credits. Daily 8:00 and 10:00. July 2 to July 20. Room M280. Jacobson

140. **The Teacher and Secondary School Administration.** An understanding of the problems of secondary school administration as they affect the teach



er. Consideration will be given to relationship with other institutions and with the community, teacher loads, guidance programs, pupil adjustment, marks, and records and reports, library and study hall management. One and one-fourth credits. Daily, 8:00. June 11 to June 29. Fretwell

224. **Advanced Methods of Teaching Shop.** Consideration will be given to tool processes, teaching technique, shop management, special teaching devices, shop organization and course of study. Arranged especially for teachers in service. One and one-fourth credits. Daily, 8:00 to 11:00 during the first two weeks of summer school. Room E203.

I. S. Noall and Mechanics  
Arts Staff

220. **Extra-Curricular Activities.** In developing the guiding principles of pupil participation in the extra-curricular life of the school, the following activities are considered: home, room and class organization, student council; school clubs, the assembly, commencement, the school activities period; study halls and pupil participation in their government, athletic association, inter and intro-mural games and contests; school publications—newspaper, magazine, annual, handbook dramatics, debating, excursions, fraternities and sororities, the National Honor Society and other honor societies, school and athletic insignia, everyday school manners, school and class parties and dances; school camps and camping, welcoming and orienting new pupils; extracurricular finances, the school bank, such supplementary school agencies as Boy Scouts, Girl Scouts, Camp Fire Girls, Junior Chamber of Commerce, Junior Red Cross; the adviser of boys, the adviser of girls; a point system for directing and limiting pupil activity, a record card for pupil activity. One and one-fourth credits. Daily, 10:00. June 11 to June 29. Room M204.

Fretwell

### ENGLISH AND SPEECH

N. Alvin Pederson, Professor  
Wallace J. Vickers, Associate Professor  
F. R. Arnold, Professor  
Charlotte Kyle, Assistant Professor  
Chester J. Myers, Assistant Professor

50. **Reading in Poetry.** The purpose of this course is to aid the student in seeing what is enjoyable in poetry. Two and one-half credits. Daily, 9:00. Room N318. Vickers

105. **College Grammar.** Two meetings daily, 8:00 and 10:00. Five credits. Room N318. Vickers

10, 108. **A Course in Writing.** Those who have not had Freshman Composition should register for 10; advanced students for 108. The two groups will meet together and will earn the same amount of credit. Two and one-half credits. Daily, 9:00. Room M360. Kyle

154. **The Short Story.** Analysis of the technique of stories of the nineteenth and twentieth centuries. The purpose of the course is to give the student a basis by which to judge a short story. Practice in writing will be a feature

of the course. Two and one-half credits. Daily, 10:00. Room M360. Kyle

168. **The Novel.** A study of typical English, American, Russian, and French novels of the nineteenth century to discern the qualities which make a novel great. Two and one-half credits. Daily, 12:30. Room M360.

Kyle

19. **Vocabulary.** Study of prefixes, suffixes, roots, and foreign elements in the English language, with special attention to metaphors. Lectures, daily class exercises, and outside reading. Especially valuable to teachers of English and students of sciences. Two and one-half credits. Daily, 9:00. Room N316.

Arnold

### SPEECH

12. **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 sources; adaptation of material and actual practice in story telling. The work is designed to meet the needs of student, teacher, librarian, and parent. Two and one-half credits. Daily, 10:00. Room M361. Myers

110. **Program Building.** A study of types of interpretive 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. Two and one-half credits. Daily, 12:30. Room M361. 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. Consult the instructor before registering. Special fee. Credits and hours by arrangement. Myers

### ENGINEERING AND MECHANICAL ARTS

Ray B. West, Professor  
 Chester O. Reed, Professor  
 Aaron Newey, Associate Professor  
 A. H. Powell, Associate Professor  
 D. A. Swenson, Assistant Professor  
 Sidney R. Stock, Assistant Professor  
 S. R. Egbert, Assistant Professor

### FARM MACHINERY

AE 115. **Farm Machinery.** For Agricultural and Shop Teachers. Two weeks conference of Smith-Hughes Agricultural and Shop teachers. Fore noons to be occupied with review of tool processes, methods and review of farm machinery adjustment, operation and demonstration of the practical application of modern educational theory in teaching the subject, balancing properly with necessary subject matter objectives, methods and various techniques in which we have progressed rapidly during the past few years. The

afternoons work will be handled by Professor C. O. Reed of Ohio State University, a national authority in the field. Two and one-half credits. First two weeks 1:30 to 4:30. Room 203 Eng. Bldg.

### AUTO MECHANICS

MA 1. **Automobile Servicing, Lubrication, Adjusting and Repairing.** A course arranged to train owners and operators of equipment to do ordinary repairing and adjusting. Three credits. July 9 to July 20. Daily, 8:00 to 11:00 and 1:30 to 4:30. Shops. Powell

MA 101. **Automobile Repairing.** This course covers the automobile repair work from the standpoint of high school shop teachers, with special attention given to the problems of the high school shop. One and one-half credits. July 9 to July 20. Daily, 1:30 to 4:30. Shops. Powell

### WOODWORK

MA 168B. **General Woodwork.** Students may select any course listed in the 1933-34 general catalogue. Three credits may be earned for full time, but students may register for fewer hours.

Courses offered include: Elementary and advanced woodwork, Mill work, Farm woodwork, Building construction, Wood turning, Carving, Pattern making, Harness repairing. June 25 to July 6. Daily, 8:00 to 11:00 and 1:30 to 4:30. Shops. Swenson

MA 54. **Machine Shop Practice.** This course consists of practice on the engine lathe, drill press, and the use of common machinist hand tools. Three credits. June 25 to July 6. Daily, 8:00 to 11:00 and 1:30 to 5:00. Shops.

NOTE: For other courses consult regular catalog. Newey

### FORGING AND GENERAL BLACKSMITHING

MA 132. **Hot and Cold Metal.** The bending, twisting, shaping of iron both hot and cold. Filing, hacksawing, drilling, cutting threads, grinding drill bits, etc. Welding iron, tempering tools. Three credits. July 9 to July 20. 8:00 to 11:00 and 1:30 to 4:30. Egbert

### RADIO

MA 124. **Radio Receiving Sets.** The course will be completed in two weeks of eight hours a day, two lectures and six hours laboratory work daily. Students taking this course will be required to have or purchase their own special tools. The College furnishes kits of parts and materials to build the model receiving sets, which may be purchased by the students if they wish to take the completed models home with them. The course is especially arranged for high school teachers who contemplate teaching a radio course in high school. It will cover all the fundamental principles of radio construction and operation. The laboratory work will include the building and proper installation of antennas and the building of a one, two, three, four and five tube receiver, also one short wave receiver if time permits. The course will not be given for fewer than five students. Three hours credit. June 25 to July 6. 8:00 to 11:00 and 1:30 to 4:30. Shops. Laboratory fee, \$3.00. Stock

## GEOLOGY

Wm. Peterson, Professor  
L. M. Gould, Professor

105. **General Geology—Physical.** 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, volcanoes, etc., which operate upon the earth and modify its outer portion. Five credits. Daily, 7:30 and 9:00, Room 283. Gould

125. **Glaciation.** The characteristics of existing glaciers the world over are studied with emphasis on the Great Ice Sheets of the Polar Regions and their influence on world weather and climate. Ancient glacial periods are then considered with detailed attention devoted to the Pleistocene or so-called Great Ice Age, which so profoundly affected the relief or northern North America and northern Europe. The various hypotheses and theories as to the causes of glacial periods or ages are briefly considered. Two and one-half credits. Daily, 12:30. Room 283. Gould

## HISTORY

Joel E. Ricks, Professor

121. **European History.** The Reformation. The Reformation movement in Germany, France, England, Switzerland, Scotland, and the Scandinavian countries. The Catholic Counter-Revolution. Two and one-half credits. Daily, 8:00. Room N310. Ricks

159. **United States History.** History of the United States since 1896. Two and one-half credits. Daily, 9:00. Room N310. Ricks

197. **Seminar in United States History.** Required of all students majoring in History. Two and one-half credits. Hours to be arranged. Room N310. Ricks

## HOME ECONOMICS

Christine B. Clayton, Professor  
Caroline B. Hedger, Professor  
Johanna Moen, Professor

9. **Meal Preparation and Serving.** A course in the most efficient methods of preparing and serving meals for the family group. Special attention will be given to the planning of adequate meals at a minimum of cost, time and energy. Two and one-half credits. Lecture Friday at 2:30 Laboratory, M.T.W.Th. from 2:30 to 4:30 Room H26. Clayton

111. **Principles of Nutrition.** A study of the relation of food to physical fitness with practical application to the adolescent and adult. Two and one-half credits. Daily, 1:00. Room H12. Hedger and Clayton

135. **Nutritional Growth and Development of Infants and Children.** A study of the growth and development of infants and children as influenced by nutrition. The dietary requirements of all age groups from infancy to

adolescence will be considered together with problems in child feeding. Two and one-half credits. Daily, 9:00. Room H12. Hedger and 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. Hour and credit to be arranged. Room H15. Clayton

### TEXTILES AND CLOTHING

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. Two credits. Daily except Friday, 12:30 to 2:30. Room H33. Moen

50. **Textile Selection.** Judgment in selection and purchasing of Textiles in relation to design, quality, cost as affected by economic and social factors. Two and one-half credits. Daily, 10:00. Room H33. Mcen

161. **Advanced Problems in Clothing.** Special application of the Principles of Design and Construction to tailored garments. Two credits. Daily except Monday, 2:30 to 4:30. Room H33. Moen

NOTE—Only two of the three above named courses will be given.

190. **Special Problems.** Arranged for advanced students in Textiles and Clothing. Working out problems of special interest, readings and reports. Hour and credit to be arranged. Moen

### MATHEMATICS

Leon B. Linford, Associate Professor  
V. H. Tingey, Assistant Professor

34. **Introduction of 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. Five credits. Daily, 9:00 and 12:30. Room E205. Tingey

75. **Elementary Statistical Methods.** An Introduction to the Mathematical Theory of Statistics, together with its applications. Prerequisites, Mathematics 34. Five credits. Daily, 10:00 and 1:30. Room E205. Tingey

NOTE—Mathematics 34 and 75 may be taken together with the approval of the instructor.

### MODERN LANGUAGES

Frank Arnold, Professor

**French Ia.** Beginners French. Grammar and Conversation. Two and one-half credits. Daily, 8:00. Room N316. Arnold

**French Ib.** Beginners French. Reading, games and songs. Two and one-half credits. Daily, 12:30. Room N316. Arnold

NOTE: Students taking these two courses will be able to go on with scientific French or continue in College with French 2.

**Vocabulary 1 or English 19.** Study of prefixes, suffixes, roots, and foreign elements in the English language, with special attention to metaphors. Lecture, daily class exercises, and outside reading. Especially valuable to teachers of English and students of science. Two and one-half credits. Daily, 9:00. Room N316. Arnold

### MUSIC DEPARTMENT

Walter Welti, Assistant Professor  
 N. W. Christiansen, Assistant Professor  
 A. R. McAllister, Professor  
 Associated—Mrs. N. W. Christiansen, Piano  
 S. E. Clark, Piano and Organ  
 A. L. Farrell, Voice  
 Lu Dean Rogers Foster, Piano  
 Wm. Spicker, Violin  
 Mrs. G. W. Thatcher, Piano  
 Mrs. Walter Welti, Piano

For credit in private work consult the teacher concerned.

All classes under Professor McAllister will run daily except Sunday from June 14 to July 1, inclusive.

The Intermountain High School band will be divided into two sections: Concert Band and Maneuvers Band.

**NOTE:** Special arrangements will be made for directors or students who wish to study the unusual instruments. A small fee will be charged for an instructor. Credit according to work done.

150. **Public School Music.** Methods of presenting music in the grades, and drill on the subject matter in the order of presentation. Song material will be taken from Dann, Music Hour, and the Foresman. Care and development of the child voice will be stressed. Two and one-half credits. Daily, 9:00. Room M130. Welti

158. **Harmony.** Some familiarity with musical terms, note values, and key signatures is required. The course will take up the study of triads, both primary and secondary, intervals, inversions, non-harmonic tones, and dominant seventh chords in all major and minor keys. Text: **An Approach to Harmony**, McConathy, and supplementary material from Foote and Spaule. Daily, 1:30. Room M130. Welti

173. **Vocal Methods.** A course designed for teachers of voice and choral singing; stressing the care of voices, classification, the technique of singing, song repertoire, program arranging, and the use and development of the voice according to the old art of bel canto. Two and one-half credits. Daily, 10:00. Room M130. Welti

174. **Sectional Rehearsals.** Directors will be asked to conduct groups every other rehearsal day. On alternate days they will visit groups with Mr. McAllister who will offer constructive criticisms on work being done. One-half credit. Daily, 8:00. Rooms to be announced. McAllister

176. **Problems of the Bandman.** A round table discussion of problems arising in the directing of bands. One credit. M.W.F., 10:00 Room M133.

McAllister

177. **Concert Band Rehearsal.** Rehearsal of program music for final concerts. A demonstration of what should be accomplished in a given time by qualified students. An observation course for directors. One credit. Daily, 1:30 to 3:30. Amphitheatre.

McAllister

179. **The Marching Band.** Its importance; how to secure the best results for all phases of field work. One credit. Daily drill by Maneuvering Band. 9:00.

McAllister

182. **Drum Major Course.** Students or directors. M.W.F., 4:30. One-half credit.

NOTE: Practice batons may be purchased at the College Bookstore.

## PHILOSOPHY

E. E. Erickson, Professor

1. **Social Ethics.** A brief genetic approach to the basal problems of Ethics, followed by an application of the method to the moral consciousness in family, economics and religious life. The emphasis is practical rather than theoretical. Open to college students who have had no previous course in psychology or philosophy. Two and one-half credits. Daily, 9:00. Room M204.

Erickson

108. **Current Problems in Philosophy.** A critical study of Naturalism, Recent-Idealism, New Idealism, and Pragmatism. The problems about which the discussion will center are: the nature and validity of knowledge; the distinctive elements of human personality, of mind and of value. A brief historical survey will precede the detailed study of each of these recent philosophical movements. This course may be elected by upper-division and graduate students. Two and one-half credits. Daily, 12:30. Room 204.

Erickson

## PHYSICAL EDUCATION

Joseph R. Jensen, Associate Professor

E. K. Fretwell, Professor

E. L. Romney, Director of Athletics, Utah State Agricultural College

H. O. Crisler, Football and Basketball Coach, Princeton University

Caroline Hedger, Professor

Christine B. Clayton, Professor

John W. Bunn, Basketball Coach, Stanford University

Geneva S. Grace, Instructor

1. **Elementary Physical Education.** This course is given for students who are desirous of working on their physical education requirements for graduation. It will include gymnastics and games such as basketball, tennis and swimming. Two credits. Daily, 9:00. Men's Gymnasium.

Jenson

31. **Natural Dancing—Women.** Dancing based on natural movement with opportunity for music interpretation and pantomimic dancing. One credit. Daily, 9:00. Women's Gymnasium. Grace
55. **Social Dancing.** One credit. Daily, 11:00. Grace
66. **Tap Dancing** Men and women. A study of time steps, simple tap routine and dances. One credit. Daily, 10:00.
75. **Recreative Games.** Men and women. A course dealing with games and sports for recreative purposes. It is designed to teach the fundamentals of tumbling, archery, volleyball, tennis, handball, swimming, badminton, etc. Two credits. Daily, 12:00. Gymnasium. Jenson
91. **Elementary Swimming, Women.** This course is designed to teach the fundamentals of various swimming strokes and diving. One credit. Daily, 12:00. Grace
111. **Principles of Nutrition.** A study of the relation of food to physical fitness with practical applications to the adolescent and adult. Daily, 1:00. Room H12. Two and one half-credits. Hedger and Clayton
163. **Physical Education Curriculum for High Schools.** Men and women. A study of the organization and administration of a program of sports, dancing games, corrective exercises, etc. Two and one-half credits. Daily, 12:30. Room 1 Gymnasium. Jenson
174. **Advanced Swimming—Men.** Two credits. Daily, 3:30. Jenson
120. **Methods of Coaching for Men.** A theoretical and practical consideration of training and coaching men's athletic teams.
- 120 B. **Basketball Coaching.** June 11 to 15 inclusive. One credit. Daily, 2:00 to 4:00. Bunn
- 120 E. **Football Coaching.** June 11 to 15 inclusive. One credit. Daily, 7:30 to 11:30. Crisler
220. **Extra-Curricular Activities.** In developing the guiding principles of pupil participation in the extra-curricular life of the school, the following activities are considered: Home room and class organization, student council, school clubs, the assembly, commencement, the school activities period; study halls and pupil participation in their government, athletic association, inter- and intra-school games and contests; school publication—newspaper, magazine, annual, handbook; dramatics, debating excursions, fraternities and sororities, the National Honor Society and other honor societies, school and athletic insignia, everyday school manners, school and class parties and dances; school camps and camping, welcoming and orienting new pupils; extra-curricular finances, the school bank, such supplementary school agencies as Boy Scouts, Girl Scouts, Camp Fire Girls, Junior Chamber of Commerce, Junior Red Cross; the advisor of boys, the advisor of girls; a point system for directing and limiting pupil activity, a record card for pupil activity. One and one-fourth credits. Daily, 10:00. June 11 to June 29. Fretwell



**PHYSIOLOGY AND PUBLIC HEALTH**

E. G. Carter, Professor  
John Sundwall, Professor

102. **Public Health and Hygiene.** Historical development and significance of the modern public health movement. Interests and activities of a comprehensive public health program. The fundamentals of physiological and community hygiene will be duly considered. Two credits. June 11 to June 22. Daily, 10:00 and 12:30. M132. Sundall

108. **Health Education.** School health problems. June 25 to July 20. Three and one-half credits. Daily, 10:00 and 12:30. Carter

116. **Readings in Physiology.** A study of current physiological literature, including hygiene, with oral and written reports. 1 credit. Hours to be arranged. M126. Carter

**POLITICAL SCIENCE**

W. L. Wanlass, Professor  
Calvin B. Hoover, Professor

148. **Economic Systems.** A comparison of the economic systems of capitalism, socialism, communism, and fascism with particular reference to the United States, Soviet Russia, Italy and National Socialist Germany. Two and one-half credits. Daily, 9:00. Room M357. Wanlass Hoover

149. **Economic Functions of Government.** A study of the role of the state in the economics of capitalism with an analysis of these functions under the Recovery Program. Two and one-half credits. Daily, 10:00. Room M357. Wanlass Hoover

**SOCIOLOGY**

Joseph A. Geddes, Professor  
Caroline M. Hendricks, Assistant Professor

70. **Principles of Sociology.** The foundation of sociology are studied in order that a plan of social progress may be formulated. The problems of social origins, social structures, public opinions, social organization, and social evolution are considered. Two and one-half credits. Daily, 10:00. Room M206. Mrs. Hendricks

171. **Social Problems of the Family.** In this course the position of the family in a rapidly changing economic world is considered. Relations with outside groups, agencies, and institutions are stressed. Home life is treated as a changing, developing, relationship with such agencies, and as a cooperative undertaking between members. Two and one-half credits. Daily, 9:00. Room M206. Mrs. Hendricks

190. **Current Sociological Problems (Sociology Seminar).** A course de-

signed for junior, senior, and graduate students. Required of students majoring in Sociology. One hour credit. T. and Th. at 8:00. Room M206.

Mrs. Hendricks

## ZOOLOGY AND ENTOMOLOGY

W. W. Henderson, Professor

J. Sedley Stanford, Assistant Professor

102. **Systematic Entomology.** The structure of insects is studied sufficiently to enable the student to use keys employed in classification. Each student must collect, mount, and properly identify a representative collection of insects found in the vicinity of Logan. Two and one-half credits. Graduate credit may be allowed for this course. Time to be arranged. Stanford

118. **Heredity and Eugenics.** A brief study of the laws and principles which govern heredity as shown by experimental breeding and cytology and some of the more important human applications. Two and one-half credits. Daily, 9:00. Room 227 Main. Henderson

120. **Animal Ecology.** A study of animals in their haunts and homes, and a consideration of adaptation to environment. This course will be based on animals found on field excursions to representative environments near Logan. Junior College students with adequate preparation may take this course. Two and one-half credits. Lectures M.W.F., 1:30; field trips or laboratory M. W., 2:30 to 5:30. Room 227 Main. Stanford

121. **Ornithology.** A general survey of the class Aves (birds). Their history classification, structure, habits and distribution will be discussed and considerable attention will be given Utah and local birds. Two and one-half credits. Lectures M.W.F., 1:30; field trips or laboratory M.W., 2:30 to 5:30. Room M227. Stanford

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. Two and one-half credits. Daily, 10:00. Room 227 Main. Henderson

291. **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 some other branch of zoology. Open to undergraduate students only by special arrangement with the department. Thesis required. Credit and hours to be arranged. Staff

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 problems and the time spent. Thesis. Open to undergraduates only by special permission. Prerequisites: Entomology 13, 14, and 102. Hours to be arranged. Staff