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1934-1935

Stacks



In the heart of the Rockies

1933
Summer School
Catalogue

June 5 to July 14

UTAH STATE AGRICULTURAL COLLEGE
LOGAN, UTAH

Stacks
18314

COLLEGE BULLETINS

Published by the Utah State Agricultural College at Logan, Utah
Issued Bi-Monthly, Vol. 33 No. 1
January, 1933.

Utah State Agricultural College BULLETIN

Announcement for 1933 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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UTAH STATE AGRICULTURAL COLLEGE SUMMER SESSION

SUMMER SESSION 1933

UTAH STATE AGRICULTURAL COLLEGE

The Utah State Agricultural College will conduct the twenty-seventh annual session of its summer school at Logan, Utah, June 5 to July 14, 1933. 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 on 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, co-operating 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 5 from 7:00 to 11, or any afternoon following. Class work begins Monday morning, June 5 at 12:30 a. m. Students registering later than Monday, June 12 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 the student wishes 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. Dairy 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 of trees and bowers, abundant on the campus, make delightful even these warmest hours.

Visiting faculty members say:

"In the whole range of the 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 mountain 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.

"Aside from all the advantages for the study of geology and biology I have always found Logan a delightful place. The summer which I spent at the State College was one of the most delightful in my experience."

(Signed) T. N. Carver,
Prof. of Economics, Harvard 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 1933 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 friends. Cache Valley and Logan Canyon afford unparalleled opportunities to study plant 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, now nearing completion by the government.

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 lists 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 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. Those wishing credit must register regularly and must submit at the end of the course a brief and acceptable summary of each lecture attended. Two credits will be given for attendance at all the lectures with summaries prepared on every lecture, and one credit for attending half the lectures. Students registering for only one credit may make their own choice of lectures. Register for Sociology 179.

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 students) or 12 three-hour laboratory periods. Only those courses regularly scheduled in published catalogs will be given and credits will be recorded only as announced in the catalogs. 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 for fewer than five students.

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

AGRICULTURAL ECONOMICS AND MARKETING

W. P. Thomas, Professor

George F. Warren, Professor

Walter U. Fuhrman, Assistant Professor

53. Agricultural Economics. A general study of the economic principles underlying agriculture, with particular emphasis on their relation to the present economic situation and outlook for agriculture. Two and one-half credits. Daily, 8:00 Room, M 178. Fuhrman

102. Farm Management. A study of the principles of efficient organization and operation of farms, including methods of analysis and reorganization. Special consideration to be given to the reorganization of the farm business to meet changing economic conditions. Two and one-half credits. Daily, 10:00. Room, M 178. Fuhrman

112. Marketing Agricultural Products. The principles of marketing, types of marketing agencies, functions of middlemen, channels of distribution, consumer's demand, Government's relation to marketing, and proposals for improvement. Two and one-half credits. Daily, 9:00. Room, M 178. Fuhrman

253. Advanced Agricultural Economics. A course especially arranged for Smith-Hughes teachers, extension agents and other qualified students, extending from June 19 to June 30. Room, M 178.

(a). Analysis of the principles and problems of farm organization and management. Special emphasis will be given to the organization and management of the farm business to meet present economic conditions.

1¼ hours credit. Daily, at 10 a. m.

Warren

(b). A general study of the present agricultural situation including causes, current developments and future outlook.

1¼ hours credit. Daily, at 8 a. m.

Warren

(c). Agricultural Economics Seminar.

½ hour credit. Time to be arranged.

Warren

AGRONOMY

R. J. Evans, Professor

D. W. Pittman, Professor

108. Soil Management. A study of soils from the point of view of the management problems encountered in crop production (especially in the arid regions) including such problems as tillage, rotation, alkali, erosion, manuring, etc. Prerequisite: Agronomy 106 or equivalent. Two and one-half credits during regular summer session. One and one-half credits intersession (intersession optional). Daily, 8:00. Room P 201. Pittman

208. Graduate Soil Management. Similar to 108 but given only to graduate students and requiring more outside study of original source material. Two and one-half credits during regular summer session. One and one-half credits intersession (intersession optional). Daily, 8:00. Room P 201. Pittman

ANIMAL HUSBANDRY

E. J. Maynard, Professor
Harry H. Smith, Associate Professor
Alma E. Esplin, Assistant Professor
Bert L. Dryden, Instructor

10. Feeds and Feeding. The principles of feeding, how animals digest and utilize feed. The balancing of rations and the feeding of horses, cattle, sheep, and hogs for economical production. Five credits. Daily 10:00. Room 207 Livestock Building. Smith

125. Sheep Husbandry. A study of problems in sheep production for meat and wool under range and farm conditions. Purebred sheep husbandry is emphasized under Utah condition. Purebred sheep in the Animal Husbandry Department are used for demonstration work in the course. Two and one-half credits. Daily 9:00. Room 208 Livestock Building. 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. Two credits. T. Th. Lecture, 1:00, Lab., 2:00 to 4:00. Pavilion. Dryden

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

185. Livestock Judging. The comparative judging of horses, cattle, sheep and swine to indicate correct type and confirmation and to train students to officiate at livestock shows. Two and one-half credits. M.W.F. Lab., 2:00 to 4:00. Lecture 1:00. Room 207 Livestock Building. Smith

ART

Calvin Fletcher, Professor
H. R. Reynolds, Assistant Professor

51. Methods of Teaching Drawing in the Public Schools. Two and one-half credits. Daily, 8:00. Room M 355. Fletcher

53. **Methods of Teaching Handwork in the Public Schools.** Two and one-half credits. Daily 9:00. Room M 355. Reynolds

4, 5, 106, 108, 208. **Painting, Landscape, Still Life, and Portrait Painting.** Outdoor criticism Thursday 3:30 to 6:30, Studio help daily—9:00 to 11:00 a. m. Students may work any time, one credit being given for each 30 hours of work being completed. Credits one to eight. Room M 330. Fletcher

STUDIO COURSES IN CRAFTS

Hours and credits arranged same as above, but criticism will be given 12:00 to 2:00 instead of 9:00 to 11:00.

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

NOTE: Students' work is subject to retention for exhibition purposes. Reynolds

STUDIO COURSES

This work is done in Room 330 Main. Students may work any time but must attend at least one criticism hour daily from 9:00 to 11:00 except those given by Professor Fletcher which will not meet on Friday. Choice of hour must be reported to the instructor during the first day or two of course. Credit is given on basis of 30 hours work in the studio for each credit for which the student is registered. Studio open 8:00 to 5:00 daily. The following courses are open:
Art 4. Free hand drawing of any type.

7. 110. Illustration: Choose any of the following:
Pen and Ink Technic
Scientific Illustration
Cartooning
General Illustrating
Costume Illustrating

Fletcher

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5. 108. Graphic Art
Monotypes
Block Printing
Etching
Fletcher
10. 113. Show Card and Sign Writing or Poster Work
Fletcher
12. 115. China painting if six apply.
111. Advanced Design. Elect one of the following lines of
of work, A. B. or C.
- A. Interior Decoration
Sketching Designs of Wall and Interiors
Furniture Designing
Wood Carving
Picture Framing
- B. Advanced Costume Designing
- C. Textiles and Wall Paper Commercial Designing
- D. Architectural Composition.
109. Modeling in Clay, Casting, etc.
Fletcher

BACTERIOLOGY

Joseph E. Greaves, Professor

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 the air, food and water, and the role they play in the arts and industries. Bacteria as the cause of disease. Two and one-half credits. Daily, 8:00. Room W 302. Greaves

BOTANY

B. L. Richards, Professor
F. B. Wann, Associate Professor
Bassett Maguire, Assistant 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 P 102. Richards, Wann, Maguire

BUSINESS ADMINISTRATION

P. E. Peterson, Professor
V. D. Gardner, Assistant Professor
L. Mark Neuberger, Instructor
Joyce Richardson, Instructor

108. Accounting For Non-Commercial Students. A brief course in principles and technique designed to meet needs of those desiring an understanding of the recording and interpretation of financial transactions. Two and one-half credits. Daily 8:00. Room M 352.

Gardner

131. Budgets and Financial Administration. Practical problems arising in planned control of individual enterprises and institutions will be considered with due attention to organization, accounting, statistical and economic factors involved. Two and one-half credits. Daily 7:00. Room M 352.

Gardner

133. Problems In Industrial Management. A case method course involving theory and its application to concrete business situations. Emphasis on problems of production. Open only to students with thorough background in accounting, and business organization. Two and one-half credits. Daily 10:00. Room M 352.

Gardner

SHORTHAND

75. Elementary Shorthand. Thorough drill in the fundamental principles of the Gregg system of shorthand which are covered during the course. Five credits. Class will meet twice daily, at 8:00 and 10:00. Room M 302.

Richardson

78. Shorthand—Advanced Theory and Methods. This course finishes Gregg Shorthand theory. A review is given of the manual with advanced vocabulary development. In addition the course deals with methods of teaching shorthand in secondary schools. Prerequisites: Shorthand Theory 75 and 76, or its equivalent; Typewriting 89, or its equivalent. Two and one-half credits. Daily 9:00. Room M 302.

Richardson

TYPEWRITING

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. One credit. Daily, 12:30. Room M 303.

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. One credit. Daily 12:30. Room M 303. Neuberger

OFFICE APPLIANCES

97. **Office Appliances.** This course is designed to give students a knowledge of the operation of the principal machines used in the modern business office. The following machines will be studied:

1. Burroughs Calculating Machine. Instruction and practice in operation.

2. Burroughs Posting Machine. Instruction will be given in the application of this machine in bookkeeping methods in commercial business houses and banks.

3. The Standard Typewriter. Its place in the office. Particular attention will be paid to advanced tabulation and stencil cutting. A knowledge of elementary typewriting is essential. Two and one-half credits. Daily, 9:00. Room M 305. Neuberger

CHEMISTRY

R. L. Hill, Professor

L. I. Gilbertson, Assistant Professor

3. **Inorganic Chemistry.** A standard course in inorganic chemistry. Prerequisites: Either High School Chemistry or Physics, or Chemistry 1 or Physics 1 and 2. This course corresponds to the fall quarter of the standard course in Chemistry. Five credits. Daily, Lecture 10:00, Laboratory, 2:30 to 5:30. Widtsoe Hall. Hill

26. **Organic Chemistry.** An applied course in organic chemistry arranged especially for students in Agriculture and Home Economics, and stressing the chemistry of the carbohydrates, fats, and proteins. Five credits. Daily, 8:00 and 12:30. Prerequisite: Inorganic Chemistry. Widtsoe Hall. Hill

NOTE: Chemistry 21 may be substituted for Chemistry 26 if desired by a larger group.

102. **Quantitative Analysis.** A course in the application of the theory and the fundamental principles of gravimetric and volumetric analysis to inorganic, agricultural, and food analysis. Prerequisite: Chemistry 5, or 15. Three credits. Lecture, Th., 1:00. Laboratory, daily, 2:30 to 5:30. Widtsoe Hall. Hill

117. **Advanced Inorganic.** A survey of the field of inorganic chemistry based on the periodic system. An introduction to inorganic literature. Topical studies relating to the metals, hydrogen and the rare gases." Two and one-half credits. Daily 9:00. Widtsoe Hall. Gilbertson.

118. **Advanced Inorganic.** "Chemistry. Topical studies relating to the non-metals and metalloids. Assigned readings in inorganic literature or individual literature searches." Two and one-half credits. Daily 12:30. Widtsoe Hall. Gilbertson.

The purpose of these courses is to continue the study of the reactions and properties of the elements which are introduced in general chemistry. As a general rule, the general chemistry covers only a very limited field with regard to the reactions and properties of a few of the more common elements. In this course, this material is briefly reviewed and is used as a basis for the study of the lesser known elements such as the rare gases, the rare earth elements, the platinum metals, the radioactive elements, those of the newly discovered elements and so forth. The literature of the field is reviewed in such a manner as to acquaint the student with means by which he may later investigate such compounds, reactions, etc., as may be valuable to him in research, whether inorganic or in other fields. Particular topics are studied, usually dealing with theories compounds, methods of analysis and separations and the like. Assigned readings and topical papers are the means by which the student becomes familiar with investigative methods. Thus the course is adapted to all students who intend to enter research work of any kind, and is particularly suited to students who intend to continue with graduate work for advanced degrees.

119. **History of Chemistry.** The historical development of chemistry from the chemistry of the ancients, through the period of the alchemists, to the present time. Selected readings and reports. Lives and works of the more outstanding chemists. The present position of chemistry in the United States. One and one-half credits.

M. W. F., 1:30. Widtsoe Hall.

Gilbertson

121. **Methods of Teaching Chemistry.** This course includes such topics as, selection of the text, aims and objectives, planning of laboratory work, arrangement of the laboratory, the storeroom, classroom and laboratory teaching, teaching plans, class demonstrations, project work, the contrant system, clubs and open house, adaptation to community needs and interests, relation of chemistry to general science courses, measurement of results, improvement in teaching methods and modern trends in the teaching of chemistry. Prerequisite: Inorganic Chemistry. One and one-half credits. M. W. F., 1:30, Widtsoe Hall.

Gilbertson

NOTE: Only one of the courses 119, 121 will be given. Students wishing to take either should write to the director of Summer Session and let his preferences be known.

ECONOMICS

W. L. Wanlass, Professor

C. A. Phillips, Dean

M. D. Ketchum, Assistant Professor

52. General Economics. A thorough study of the economic organization of our modern society. The course assumes a general knowledge of economic principles on the part of the student. An intensive study will be made of economic laws and particular attention will be paid to the application of these laws to present economic problems. Prerequisite: Economics 51 or its equivalent. Two and one-half credits. Daily, 8:00. Room M 357. Ketchum

165. Credit and Credit Policies. The nature, development and uses of money and credit. Special attention will be given to questions of bi-metallism, the gold standard, the banking system, the money market and the relation of money and credit to prices. Prerequisite: Economics 51 or its equivalent. Two and one-half credits. Daily 9:00 and 12:30. June 26, July 14. Room M 357. Ketchum

180. Current Economic Problems. A survey will be made of several economic questions of current interest. Subjects to be studied will be chosen according to the wishes of a majority of the students in the course. Suggested topics will include: Tariffs; war debts; business cycles; public finance; the general price level; security markets; commodity markets; transportation problems. Prerequisite: Economics 51, or its equivalent. Two and one-half credits. Daily, 10:00. Room M 357. Ketchum

212. Money and Prices. A study chiefly of the relation of money and purchasing power, particularly bank deposits, to general prices; mal-adjustment between general and individual prices; methods of stabilizing general prices and the practicability of controlling economic activity through adjustments with the pecuniary system. One and one-fourth credits. Daily, 9:00. June 5 to June 23. Room, M 357. Phillips

213. American Banking Reform. The extent, localization, and causes of bank failures in the United States since 1920; a critical examination of foreign banking systems with special reference to their exemplary features; the teachings of American banking history; a study of recent legislation and further specific proposals designed to reinforce and integrate our banking structure. One and one-fourth credits. Daily, 12:30, June 5 to June 23. Room, M 257. Phillips

EDUCATION*

Ernest A. Jacobsen, Professor

Clara Schmitt, Professor

Calvin Fletcher, Professor

Charles E. McClellan, Assistant Professor

Edith Bowen, Supervisor of Training School
Elsa B. Bate, Assistant Professor
Reuben Law, Instructor
A. H. Gibbons, Instructor

4. Principles of Education. (Principles of Teaching.) This course deals with the formulation of fundamental principles of teaching as based upon psychology and present theories relative to the work of the school. Two and one-half credits. Daily, 9:00. Room M. 178.

Gibbons

6. Organization and Administration. This course will include a brief survey of the evolution of our free schools; a comparative study of contemporary organization and administration; a study of the nature, organization, and function of the different units for educational control. (Local and state and national); a study of methods of raising and apportioning funds, and special attention to the administration of the Utah School law. Two and one-half credits. Daily, 8:00. Room M. 359.

Law

43. The Activity Program in the Primary Grades. Principles underlying the curriculum in terms of activities for children. Descriptions of activities as carried out in various schools of the country. Criteria for evaluating activities. Two and one-half credits. Daily 8:00. Room M. 357.

Bowen

51. Methods of Teaching Drawing in the Public Schools. Two and one half credits. Daily 8:00. Room M 355.

Fletcher

53. Method of Teaching Handwork in the Public Schools. Two and one-half credits. Daily 9:00. Room M 355.

Reynolds

111. Principles of Secondary Education. A study of general principles underlying method as applied in high school and junior high school. Prerequisite: A course in General Psychology. Two and one-half credits. Daily 9:00. Room M178.

Gibbons

120. Problems in Teaching Home Economics. Objectives and principles involved in teaching Home Economics and related subjects. Planning of courses of study based upon the problem method of teaching. This course is flexible enough to meet the needs of both undergraduates wishing to qualify for the Smith-Hughes certificate and of teachers desiring assistance in re-organizing their high school Home Economics Courses. Two and one-half credits. Daily 1:00. Room H-26.

Bate

121. Organization and Administration of Secondary Education. (a) The State Laws and the regulations of the State Board of Education pertaining to public high schools; (b) high school course of study, including the Utah State course; (c) organization, duties, activities of the teaching staff and the student body; (d) development of school

*For courses in Psychology see page 28.

support; (e) educational organization and relationships. Two and one-half credits. Daily, 8:00. Room, M 359. Law

123. Diagnostic and Remedial Teaching. A study of the application of diagnostic tests to the technique of learning. The discovery of individuals' difficulties in learning procedures, the application of specific or remedial measures to learning difficulties. Two and one-half credits. Daily, 9:00, June 5 to June 23. Room, M 357. Jacobsen

133. Individual Differences in Education. This course deals with differences in mental capacity and their relation to educational organization. The discussion will cover the larger groups, subnormal, dull, and superior; causes of such differences as to heredity and disease; methods of determining with standard tests; educational adjustments to meet them and adjustment of these groups to social and industrial life. A selected bibliography is covered. One and one-fourth credits. Daily, 10:00. June 26, July 14. Room M 359. Schmitt

129. Vocational Guidance and Personnel. A study of the meaning, purpose and methods of vocational educational guidance. Two and one-half credits. Daily, 12:30. Room, E 306.

134. Moral Education. A consideration of the psychological bases of conduct; the moral aims in education and the moral obligation of the school; methods of utilizing the existing curricula and school activities for moral ends. Two and one-half credits. Daily 12:30. Room M-357. Jacobsen

160. Philosophy of Education. The dependence of education in the absence of adequate scientific data, 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. Two and one-half credits. Daily 9:00. Room M-359. McClellan

219. Supervision for Principals: A consideration of the supervisory responsibilities and opportunities of the principal, with a study of the purposes, means, principles, and techniques of supervision. The course will be helpful to principals of either elementary of secondary schools. Two and one-half credits. Daily 8:00. Room M-359. McClellan

ENGLISH AND SPEECH

N. A. Pedersen, Professor

Albert Guerard, Professor of English

A. N. Sorensen, Associate Professor

Wallace A. Goates, Instructor

10. 108. A Course in Writing. Those who have not had Freshmen Composition should register for 10. Advanced students for 108. The two groups will meet together and will carry the same amount of credit, but that given for 10 is of Junior College grade, whereas that given for 108 is of Senior College Grade. Two and one-half credits. Daily, 9:00. Room M 204. Pedersen

13. Children's Literature. Introduction to the prose and poetry of childhood. Fairy tales, folk tales, stories and poetry of the past that live in the present, as well as the new books that are enabling the twentieth century child to live more abundantly. For parents, teachers, and leaders of children generally. Two and one-half credits. Daily, 8:00. Room M 204. Pedersen

81. American Literature. From the nineteenth century to the present. Two and one-half credits. Daily 9:00. Room, Lib. 316. Sorensen

105. College Grammar. Two and one-half credits. Daily, 10:00. Room, Lib. 316. Sorensen

140. Shakespeare. A study of six Shakespearean dramas. An opportunity to become acquainted with poetry that is enduring and with characters who live permanently in the memories of the race. Two and one-half credits. Daily, 10:00 and 12:30, June 5 to June 23. Room M 204. Pedersen

185. Contemporary Poetry. Studies in the poetry of representative English and American authors since 1900. Two and one-half credits. Daily, 8:00. Room Lib. 316. Sorensen

SPEECH

11. Influence Through Speech. The course is vital to those interested in any phase of betterment of public or private speech for any purpose. It considers speech as a means by which one seeks to influence others, and is based upon the belief that this special training of speaking consists of an applicable understanding of human nature and of speechcraft. The course considers the physical and psychological basis of human behavior as relates to speech and also considers briefly the beginning technique of speech making. Enrollment is limited. Two and one-half credits. Daily, 10:00. Studio Theater. M. Goates

116. Fundamentals of Play Production. (Survey Course). An especially desirable course for those who are interested in directing, acting, or in the appreciation of drama. The course considers the elements of a play; play classification and selection; design and construction, stage lighting, costuming; equipment organization and management of the stage. Lectures, required readings, and practical work in connection with the productions of the department are included. A complete production book is required of the student as he applies each phase of the course to an individually chosen play. Crew laboratory is required. Four credits. Lecture daily, 9:00. Crew M. W. F. 2:30 to 4:30. Studio Theater. M. Goates

200. Literature and Civilization. To what extent is literature determined by social factors; to what extent does it react upon other

national activities (Critique of the Sociological Approach in Literature); with application to contemporary literature in Europe and America. One and one-fourth credits. Daily, 10:00. Room, M 204. Guerard

201. **Types of Criticism.** The varieties of dogmatic, scientific, and impressionistic criticism. Discussion by the symposium method of essential terms in criticism, and preparation, by each student of "A Reasoned Glossary of Criticism." One and one-fourth credits. Daily, 12:30. Room, M 204. Guerard

ENGINEERING AND MECHANIC ARTS

Ray B. West, 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

Courses offered:

June 5—June 16—Auto Mechanics—Woodwork
 June 19—June 30—Farm Machinery—Radio
 July 3—July 14—Machine Work—Forging and General
 Blacksmithing

AUTO MECHANICS

MA 1. Automobile Repair and Adjustment. 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 the gas engine principles and the mechanism involved. June 5 to June 16. Three credits. 8:00 to 11:00 and 1:30 to 4:30. Lecture and Laboratory. Shops. Powell

WOODWORK

MA. 169. Wood Finishing. Preparing of wood for finishing. Application of oil, water and spirit stains. Use of primers and fillers. Varnishing, rubbing, and ordinary polishing; also special French polishing. June 5 to June 16. Three credits. 8:00 to 11:00 and 1:30 to 4:30. Shops. Swenson

General Woodwork. Students may choose any course in woodwork listed in the general catalog. Above courses given June 5 to June 16. Three credits. 8:00 to 11:00 and 1:30 to 4:30. Shops. Swenson

FARM MACHINERY

AE 15. Farm Machinery. A complete assembling, adjusting, care, and repair of the various types of farm implements and farm machinery. June 19 to June 30. Three credits. 8:00 to 11:00 and 1:30 to 4:30. Lecture and Laboratory. Powell

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 the 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. June 19 to June 30. Three credits. 8:00 to 11:00 and 1:30 to 4:30. Shops. Laboratory fee, \$5.00. Stock

MACHINE WORK

MA 54. Machine Shop S. C. This course consists of practice on the lathe, drill press, and the use of the common machinist hand tools. July 3 to July 14. Three credits. 8:00 to 11:00 and 1:30 to 4:30. Lecture and Laboratory. Shops. Newey

FORGING AND GENERAL BLACKSMITHING

MA 132. Hot, Cold, and Sheet Metal. (a) Ornamental Metal Work. The bending, twisting, shaping of iron into such projects as jardiniere stands, kitchen stools, lamp stands, etc. (b) Filing, hack-sawing, drilling, cutting threads, grinding drill bits, etc. Examples of projects: bending tools, rivet sets, soldering coppers. (c) Making flux, tinning copper, soldering, laying out and forming of such projects as cooky cutter, sugar scoop, funnel, dust pan, etc. July 3 to July 14. Three credits. 8:00 to 11:00 and 1:30 to 4:30. Shops. Egbert

GEOLOGY

William Peterson, Professor
Reed W. Bailey, Associate Professor

2. Geography. Study of fundamental elements of geography, land forms, climate and location, and resources. The influence of this environment on the development of man. Two and one-half credits. Daily, 9:00. Room M 283. Bailey

106. Historical Geology. The history of the earth and its inhabitants. The evolution of the North American Continent—its valleys, mountains, and plateaus. Fossils—their origin and interpretation. The sequence of animal and plant development. Five credits. Daily, 7:30 to 9:00. Bailey

HISTORY

Joel E. Ricks, Professor
M. R. Merrill, Assistant Professor

128. **Renaissance and Reformation.** Europe from 1500 to 1600 with emphasis on the cultural and religious movements of those years. Two and one-half credits. Daily, 9:00. Room, Lib. 310. Merrill

133. **English History.** A history of England from 1800 to 1933. The course will deal with the political, social, economic, and cultural history of Great Britain during the nineteenth and twentieth centuries. Two and one-half credits. Daily, 8:00. Room, Lib. 310. Merrill

SCHOOL OF HOME ECONOMICS

Christine B. Clayton, Professor
Charlotte E. Dancy, Assistant Professor
Elsa B. Bate, Assistant Professor
Alta O. Crockett, Instructor

Foods and Nutrition

35. **Infant and Child Nutrition.** A course in the nutrition of little children. Topics considered include nutritive requirements for different ages and the preparation of food for infants and young children. Two and one-half credits. Lecture, M.W.F. 9:00. Room, H 26. Bate

106. **Food Engineering.** This course includes a study of the most efficient methods of preparing and serving meals at a minimum cost of money, time and energy. A knowledge of the fundamentals of food preparation and table service is a prerequisite for this course. Two and one-half credits. Lecture, F. 2:00. Lab. M.W.F. 1:30-4:30. Room, H 26. (Lab. fee \$2.50). Clayton

160. **Problems in Food or Nutrition.** This course will consist of such individual or group problems as have been suggested by previous Foods or Nutrition Courses. Open only to advanced students. One to two credits. Hours to be arranged. Room, H 26. Clayton.

Home Economics Education

120. **Problems in Teaching Home Economics.** Objectives and principles involved in teaching Home Economics and Related Subjects. Planning of courses of study based upon the problem method of teaching. This course is flexible enough to meet the needs of both undergraduates wishing to qualify for the Smith-Hughes certificate and of teachers desiring assistance in reorganizing their high school Home Economics Courses. Two and one-half credits. Lecture, M. W. F. 1:00. Lab. F. Th. Room, H 26. Bate

Child Development

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. Two and one-half credits. Daily, 10:00. Room H. E. 40. Dancy

131. 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. Two and one-half credits. Lecture, M. W. F. 8:00 Lab. to be arranged. Room H. E. 26. Dancy

Textiles and Clothing

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. Two and one-half credits. Daily, 1:00. Room H 33. Crockett

5 or 50. Textile Selection. Judgment in selection and purchasing of textiles in relation to design, quality and cost as affected by economic and social factors. Two and one-half credits. Daily 1:00. Room H 33. Crockett

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. Two and one-half credits. Daily, 9:00 to 11:00. Room H 33. Crockett

125. Applied Costume Design. 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. Two and one-half credits. Daily from 2:00 to 4:00. Room R 33. Crockett

MATHEMATICS

Leon B. Linford, Associate Professor

15. Arithmetic For Teachers. An advanced course in arithmetic designed especially for teachers, but valuable for all who must work numerical problems. Credit in this course cannot be used to fill the exact science group. Two and one-half credits. Daily, 10:00. Room W 101. Linford

34. Introduction to College Algebra. A thorough course in the fundamentals of Algebra. This course is required for all more advanced courses in Mathematics. Five credits. Class meets twice daily. 9:00 and 1:30. Room W 101. Linford

MODERN LANGUAGES

F. R. Arnold, Professor

George C. Jensen, Assistant Professor

German 1a. Grammar and Conversation. Two and one half Credits. Daily, 8:00. Room M 356. Jensen

German 1b. Reading and Conversation. Two and one-half credits. Daily 12:30. Room M 356. Jensen

German 101a. Second Year German. Reading of modern texts, review of grammar, conversation. Two and one-half credits. Daily, 10:00. Room, M 356. Jensen

MUSIC DEPARTMENT

N. W. Christiansen, Assistant Professor

A. R. McAllister, Professor

Richard P. Condie, Assistant Professor

Associated:

William Spicker—Violin

S. E. Clark—Piano and Organ

Mrs. N. W. Christiansen—Piano

A. L. Farrell—Voice

For credit in private work on violin or band instruments, consult Professor Christiansen; for vocal credit, consult Professor Condie.

Note: All music classes under Professor Christiansen and McAllister will run daily except Sunday from June 14 to June 30, inclusive. All classes under Professor Condie will continue during the full six weeks. The band will be divided into two sections: Concert Band, and Maneuvers and Concert Band.

150. Public School Music. To prepare teachers to teach music in the grades. The fundamentals of music, how to present them to children, emphasizing singing and song material, and care and development of the voice will be considered. Two and one-half credits. Daily, 9:00. Room M 130. Condie

152 History and Appreciation of Music. Lives of great composers. Development of various forms of music. Discussion of current music and ideas. Playing records. One and one-half credits. M. W. F., 10:00. Room M 130. Condie

157. Mixed Chorus. One credit. Daily 12:30. Chapel Condie

158-161. Harmony and Arranging. A class to include those who have had no previous work in harmony as well as those who have taken elementary courses. Attention will be given to individual needs. Two days a week will be devoted to arranging school songs and simple pieces for band. One and one-half credits. Daily, 12:30. Room M 130.
Christiansen

166. Methods of Teaching String Instruments. Detailed instruction will be given on this important group of orchestral instruments. The violin, viola, cello, and base viol will be used in this work. One credit. Daily, 1:00. Room M 133.
Christiansen

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

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. M. W. F., 8:00. Rehearsal of Concert Band. T. Th. S 8:00
McAllister

175. Methods of Conducting. Each band man will be coached beforehand by Mr. McAllister on methods of conducting individually assigned numbers. He will have an opportunity to direct the band in these numbers in Course 181. One credit. T. Th. S. 10:00. Room M 133.
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 M 133.
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. Quadrangle.
McAllister

181. Rehearsal of Maneuvers Band in Concert Numbers. This band will be given considerable music for sight reading. They will also be coached in concert numbers especially assigned to various band directors. These numbers will be features in a final concert. One credit. Daily, 3:30. Room M 133.
Band Directors

182. Drum Majors Course.

M. W. F. Student Drum Majors

T. Th. S. Band Directors. Practice batons will be furnished. One-half credit. Daily, 4:30. Quadrangle.
McAllister

PSYCHOLOGY

Henry Peterson, Professor

Clara Schmitt, Professor

101. **Principles of Psychology.** This course deals with man's behavior and his mental progresses. It is prerequisite for the other courses in Senior College and Graduate School. Junior students may be admitted by permission. Two and one-half credits. Daily, 7:00. Room M 279.

Peterson

103. **Psychology of Adolescence.** A study of the capacities and dominant native tendencies and urges of Adolescence and the proper development of these powers. Prerequisite: Psychology 101 or equivalent. Two and one-half credits. Daily, 8:00. Room, M 279.

Peterson

113. **Behavior Difficulties of Children.** This course treats the various difficulties in social adjustment, such as nervousness and restlessness, temper tantrums, stealing, lying, sex interest, fighting, desire for attention, conflict in play or work relations, etc. Problems of such maladjustment are analyzed with reference to basic causes in mental, educational, physical, and social development. Methods of clinical analysis or investigation of causes and methods of treatment are discussed. A selected bibliography is covered. One and one-fourth credits. Daily, 1:30. June 26 to July 14. Room 279 M.

Schmitt

215. **Seminar In Psychology.** A study of recent developments and problems of psychology. Much freedom of adaptation to graduates and advanced students only. Two credits. T. Th., 9:00. Room M 279.

Peterson

PHYSICS

Frank L. West, Professor

1. **General Physics.** A lecture demonstration course, designed for students not majoring in Physics or Engineering and requiring a minimum of Mathematics. Two and one-half credits. Daily 8:00. Room W. 101.

West

PHYSICAL EDUCATION

W. B. Preston, Professor

Harry G. Kipke, Football Coach, Football, University of Michigan

E. L. Romney, Director of Athletics

Joseph R. Jensen, Associate Professor

Katherine C. Carlisle, Associate Professor

G. Ott Romney, Professor of Physical Education, Basketball, Brigham Young University

Vadal Peterson, Basketball Coach, Basketball,
University of Utah

Olga Carlson, Director Girl Scout Activities

W. O. Robinson, General Board of the Y.M.M.I.A.

Homer Warner, Director of the Y.M.M.I.A. Basketball

1. Elementary Gymnastics—Men. This course is given for students who are desirous of working up their physical education requirements for graduation. It will include gymnastic exercises, and physical activities of all kinds, such as swimming and tennis. One credit. Daily, 9:00. Men's Gymnasium. Jensen

31. Natural Dancing—Women. Dancing based on natural movement with opportunity for music interpretation and pantomimic dancing. One credit. Daily, 10:00. Women's Gymnasium. Carlisle

55. Social Dancing—Men and Women. A study of the latest forms of waltz, fox-trot, drag, and tango. No previous knowledge of dancing necessary. One credit. Daily, 1:30. Women's Gymnasium. Carlisle

66. Clog, Athletic, and Character Dancing—Men and Women. A study of simple clog, tap and folk technique, and dancing. Material is especially adapted to teaching boys and girls in grades 4 to 9. One credit. Daily, 8:00. Women's Gymnasium. Carlisle

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. One credit. Daily, 12:00. Men's Gymnasium. Jensen

85. Girl Scout Leadership. This course will be run as a troop using patrol system and court of honor, the distinctive Girl Scout way. The program material, including games, songs, dramatics, woodcraft, and other Girl Scout techniques, will demonstrate that scouting is fun. This course will be of special value to students contemplating either professional or volunteer recreational leadership. One credit. Daily, 3:00 to 5:00. Week of July 3. All students who take this course must pay a special registration fee of \$1.00. Carlson

91. Elementary Swimming—Women. This course is designed to teach the fundamentals of various swimming strokes, and diving. One credit. Daily, 12:00. Carlisle

95. Red Cross Life Saving—Men and Women. A study of all material necessary in order to pass the Senior Red Cross Life Saving Test. One credit. Daily, 2:30.

102. Recreational Leadership—Men and Women. This course is designed to meet the needs of community and church recreation workers. One credit. Daily, 7:00 to 9:00 p. m. Men's Gymnasium.

June 19 to June 23 only.

Robinson

103. Program Making In Recreation—Men and Women. Typical programs for the home, church and community will be planned and presented. One credit. Daily, 2:30 to 4:30. Men's Gymnasium.

June 19 to June 23 only.

Robinson

120. Methods of Coaching for Men. A theoretical and practical consideration of training and coaching of men's athletic teams.

Staff

120B. Basketball Coaching. June 5 to 9, inclusive. One credit. Daily, 2:00 to 4:00.

E. L. Romney, Vadal Peterson, and G. O. Romney.

120E. Football Coaching. June 5 to 9. One credit. Daily, 7:30 to 11:30.

Kipke

120. Basketball Coaching. June 5 to 9. This course outlined to meet the basketball problems of the Y.M.M.I.A. No credit. Daily at hour to be announced later.

Homer Warner, E. L. Romney, Vadal Peterson, and G. Ott Romney.

163. Physical Education Curriculum for High Schools—Men and Women. A study of the organization and administration of a program of sports, dancing, games and correctives for children in the first six grades. Two credits. Daily, 2:30. Room, 1 Gym.

Carlisle

174. Advanced Swimming—Men. Two credits. Daily, 3:30.

Jensen

PHYSIOLOGY AND PUBLIC HEALTH

E. G. Carter, Associate Professor

Charlotte E. Dancy, Assistant Professor

4. Anatomy and Physiology. A study of the structure and functions of the human body. Five credits. Daily, 9:00 and 12:30. Room, M 132.

Dancy

14. Health Education. Health Service and Health Education in the public schools. A study of the class room teacher's part in the promotion of the health of her pupils and methods of teaching health in the schools. Two and one-half credits. Daily, 10:00. Room M 132.

Carter

106. Applied Anatomy and Physiology of Exercise. Prerequisite: Anatomy and Physiology 4 or equivalent. Five credits. Daily, 8:00 and 9:00. Room, M 132.

Carter

115. Journal Club. A study of current physiological literature including hygiene, with oral and written reports. One credit. Time to be arranged. Room, M 132.

Carter

POLITICAL SCIENCE

Franklin D. Daines, Professor

124. Public Opinion. The aim of this course is to investigate the psychological and other factors involved in the determination of opinion on public questions. The reliability of sources of information and the subjective influences that must be taken into consideration are considered. Prerequisite: One year of Social Science. Same as Sociology 124. Two and one-half credits. Daily, 8:00. Room, M 361.
Daines

201. Current Political Problems. A course designed for Junior, Senior and Graduate students majoring in Political Science and related subjects required of those graduating in Political Science. Two and one-half credits. Daily, 10:00. Room, M 361.
Daines

SOCIOLOGY

Joseph A. Geddes, Professor

Franklin D. Daines, Professor

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 organizations, and social evolution are carefully considered. Prerequisite for all upper division courses. Two and one-half credits. Daily, 7:00. Room, M 361.
Daines

124. Public Opinion. The aim of this course is to investigate the psychological and other factors involved in the determination of opinion on public questions. The reliability of sources of information and the subjective influences that must be taken into consideration are considered. Prerequisite: One year of Social Science. Same as Political Science 124. Two and one-half credits. Daily, 8:00.
Room M 361. Daines

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 application. 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.

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 other branch of zoology. Open to undergraduate students only by special arrangement with the department. Thesis required. 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 problem and the time spent. Thesis. Open to undergraduates only by special permission. Prerequisites: Entomology 13, 14, and 102. Hours to be arranged.

Staff