Summer Session
June 8 to July 17
1931

In the heart of the Rockies

UTAH STATE AGRICULTURAL COLLEGE
Logan, Utah
Utah State Agricultural College

BULLETIN

Announcement for 1931 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.
THE UTAH STATE AGRICULTURAL COLLEGE SUMMER SCHOOL
FOR EXTENSION WORKERS.

In harmony with the suggestions of the officials of the United States Department of Agriculture, the college announces for the first time a summer school for Extension Workers of the western states. The reason for such a move is indicated in the following paragraph quoted from an announcement by C. W. Warburton, Director of Extension Work of the United States Department of Agriculture:

"The rapidly increasing interest in extension teaching as a profession is naturally stimulating interest in advanced training of a professional character. Extension workers granted leave of absence for professional improvement experience little difficulty in finding satisfactory courses in agronomy, dairying, clothing, or other subject-matter lines of work. In addition to graduate courses in special subject-matter lines of work, however, most extension workers feel the need for courses more closely associated with extension teaching as a profession, such as extension methods, psychology of extension teaching, extension research, seminar, thesis, and the like. It is probably inadvisable for every institution to attempt such courses, but it would seem that four or five institutions with good reputations for graduate work, geographically so situated as to serve a group of States, should be encouraged to provide such courses."

Special courses have been organized for the Summer of 1931: for the write up on these courses see pages 13-14 and 22.
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RECREATIONAL PROGRAM

Thursday, June 11. Faculty reception to Summer students. Dancing, refreshments.

Saturday, June 20. Excursion to Bear Lake.

Friday, June 27. A Program of Music.

Wednesday, July 2. Dancing party in the Gymnasium.

Thursday, July 9. Canyon Party, refreshments, bonfire, and lecture by Dr. E. H. Griggs.

The Summer Encampment of the Extension Division of the College is held on the campus, and during this period a drama is produced by the Public Speaking department, an evening of music by the department of Music, and each evening folk dancing, and games are participated in by all.

Week-end excursions to Bear Lake, "The Lake Geneva of the Rockies", will be conducted provided parties of ten or more are formed. These excursions leave the campus early Saturday morning and return Sunday evening. Transportation charges will be about $2.00.
Officers of Administration and Instruction

ELMER GEORGE PETERSON, A. M., Ph. D. .................. President
JAMES HENRY LINFORD, D. Did. .................. Director Summer School

Visiting Faculty

JEAN BETZNER, Ph. D. .................................. Assistant Professor of Education
Columbia University
SAM BARRY .................................. Head Basket-ball Coach
University of Southern California
LAURA BRYANT .................................. Supervisor of Music, Ithaca Public Schools
Ithaca, New York.
LOFTER BJARNASON, M. A. .................................. Utah State Supervisor Grammar Grades and Junior High Schools
MARGARET BURNS .................................. Assistant Professor of Physical Culture
University of Chicago
OLGA CARLSON, B. A. .................................. National Field Trainer, Girls Scouts
FLORENCE ANDERSON FELT .................................. Primary Teacher, Chicago
ERNEST R. GROVES, Ph. D. .................................. Institute of Research in Social Science
University of North Carolina
H. W. HOCHBAUM, B. S. A. .................................. Field Agent-Eastern States
Senior Agriculturalist
C. R. ARNOLD, A. M. .................................. Assistant Professor of Rural Economics
Ohio State University
MARIAN LEE KURTZ .................................. Director Social Dancing and the Social Hour
Elementary, Intermediate and High Schools in Chicago.
ELMER D. MITCHELL, Ph. D. .................................. Professor of Physical Education
University of Michigan
ANNA CARROLL MOORE .................................. Librarian Children’s Department
New York City Public Library
B. J. O. NORDFELDT .................................. A member of the Taos Art Colony
New Mexico
JOSEPH PIPAL .................................. Professor of Physical Education and Coach of Track
Occidental College
WALLACE W. WADE, A. B. .................................. Head Football Coach
Duke University
Visiting Lecturers

EDWARD HOWARD GRIGGS. .................................. Author and Lecturer, New York City
HENRY NEUMANN .................. Director, Brooklyn Society of Ethical Culture
C. N. JENSEN, .................... Utah State Superintendent of Public Instruction
RALPH DENNIS, Ph. D........ Professor of Speech, North Western University
AVARD FAIRBANKS ............. Division of Fine Arts, University of Michigan
WILLIAM T. FOSTER, Ph. D......Director of the Pollak Foundation for Economic Research
SUNDER JOSHI ................................. Cambridge, Massachusetts

Resident Faculty

Arranged in groups in the order of seniority of appointment.

WILLIAM PETERSON, B. S..................Director of Extension Division, Prof. of Geology
FRANK RUSSELL ARNOLD, M. A.........Professor of Modern Languages
FRANKLIN LORENZO WEST, Ph. D........Dean of the Faculty, Prof. of Physics
JOSEPH EAMES GREAVES, M. S., Ph. D...Professor of Bacteriology and Bio-Chemistry
CALVIN FLETCHER, B. Pd. .................. Professor of Art
RAY B. WEST, B. S., C. E., ...........Dean of the School of Engineering
Professor of Engineering
ARTHUR HERBERT SAXER, M. S. Ph. D.....Dean, Schools of Arts and Science, and of Education, Professor of Mathematics
NIELS ALVIN PEDERSEN, A. M., Ph. D......Prof. of English and Speech
PARLEY ERASTUS PETERSON, A. B., C. P. A.....Prof. of Accounting
FRANKLIN DAVID DAINES, A. M., Ph. D.....Professor of Political Science
JOHANNA MOEN, B. S. ..................Professor of Textiles and Clothing
REUBEN LORENZO HILL, Ph. D. ........Professor of Chemistry
WM. L. WANLASS, M. A., Ph. D........Dean of the School of Commerce, Professor of Agricultural Economics and Marketing
HENRY PETERSON, A. M. ..................Professor of Psychology
JOEL EDWARD RICKS, A. M., Ph. D........Professor of History
WILLIAM WILLIAMS HENDERSON, M. A., Ph. D.. Professor of Zoology and Entomology
E. LOWELL ROMNEY, A. B. ...............Director of Athletics
JOSEPH ARCH GEDDES, Ph. D. ........Professor of Sociology
CHRISTINE BOCKHOLT CLAYTON, M. S....Professor of Foods and Dietetics
W. PRESTON THOMAS, M. S.............Professor of Agricultural Economics
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E. J. MAYNARD .................................................. Professor of Animal Husbandry
AUGUST J. HANSEN, B. S ........................................ Associate Professor of Carpentry and Woodwork

WILLIAM BOWKER PRESTON, M. D .................................. Health Supervisor of Students
SHERVIN MAESER, Ph. D ........................................ Associate Professor of Chemistry
JOSEPH R. JENSEN, A. B ........................................ Associate Professor of Physical Education
EZRA G. CARTER, Dr. P. H ........................................ Associate Professor of Public Health and Physiology

KATHERINE COOPER CARLISLE, B. S .......................... Associate Professor of Physical Education for Women
AJMA N. SORENSON, A. B., A. M .......................... Associate Professor of English
ERNEST A. JACOBSEN, M. A .................................. Associate Professor of Education
LeGRAND R. HUMPEHRYS, B. S .................................. Utah State Supervisor, Agricultural Education

SAMUEL ROY EGBERT, B. S .................................. Assistant Professor of Forging
CHARLOTTE E. DANCY ........................................ Assistant Professor of Nursing
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HATTIE SMITH .................................................. Assistant Librarian
SIDNEY STOCKS, B. S ........................................ Assistant Professor of Farm and Auto Mechanics
CHARLES E. McCLELLAN, A. M .................................. Assistant Professor of Education
REED W. BAILEY, M. S ........................................ Assistant Professor of Geology
WALTER WELT, B. A ........................................ Assistant Professor of Vocal Music
VERNAL DELROY GARDNER, B. S., M. B. A .................................. Assistant Professor of Accounting

DELMAR C. TINGEY ........................................ Assistant Professor in Agronomy
HARRY H. SMITH, M. S ........................................ Assistant Professor of Animal Husbandry
WALTER U. FUHRIMAN, B. S .................................. Assistant Professor of Agricultural Economics

CHESTER J. MYERS, A. M ........................................ Assistant Professor in Speech
CAROLINE M. HENDRICKS, B. S., M. S .................................. Women’s Adviser, Assistant Professor of Sociology

GEORGE C. JENSEN, A. M ........................................ Assistant Professor of Modern Languages
HELEN PIXTON, M. S ........................................ Instructor in Foods
J. SEDLEY STANFORD, B. S., Ph. D .................................. Assistant Professor of Zoology and Entomology

N. WOODRUFF CHRISTIANSEN, B. S .................................. Assistant Professor of Instrumental Music
MARY SORENSON .................................................. Assistant in Library
FRANCES BARBER, B. S ........................................ Instructor in Education
JESSIE ANDERSON .................................................. Instructor in Art
LUELL HAWLEY, B. S ........................................ Instructor in Typewriting and Stenography
FLORENCE ANDERSON FELT ........................................ Instructor in Education
Summer Session 1931
Utah State Agricultural College

The Utah State Agricultural College will conduct the twenty-fifth annual session of its summer school at Logan, Utah, June 8 to July 17, 1931. These summer sessions have come to be widely 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 nation. 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, backed 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" nesting, 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's Canyon, Cedar Breaks, the home of the Cliff Dwellers, all in southern Utah, and the dinosaur quarries in eastern Utah.

A faculty of unusual merit has been assembled for the 1931 U. S. A. C. summer session. The college has drawn from the great institutions of America a number of their leading scholars to cooperate with the resident faculty in giving the course work of the summer session.

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 $5.00
will be charged for this service. Logan City, cooperating with the College, has also made available the beautiful 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 non-professional courses in physical education.

Students will register on Saturday, June 6, or any afternoon of the following week. Class work begins Monday morning June 8 at 8:00. Students registering later than June 17 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 Dean of the Faculty 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. See under Requirements for Advanced Degree in General Catalogue.

EXPENSES

The registration fee is $20.00.

In laboratory and shop courses, students are charged an additional fee of 50 cents a credit hour.

Good board and rooms at prices ranging from $5.00 to $7.00 a week can be secured in private homes.

The College cafeteria will be open during the session and mid-day meals will be served at cost. Dairy lunches will also be served at the College Dairy.
RECREATION

Ample opportunities are furnished summer school students for recreation. Informal receptions, musicals, and lawn parties are held at frequent intervals. Excursions to Mt. Logan, Logan Canyon, Bear Lake, and other points of scenic beauty will be arranged. The college authorities will assist in arranging excursions to Yellowstone National Park, the Hermitage in Ogden Canyon, Great Salt Lake, and the Grand Canyon of the Colorado. The latter trip to include the beauty spots of southern Utah.

Students from the East may purchase round trip excursion tickets to the Yellowstone National Park via Logan, with adequate stop-over privileges. For rates, consult your local agent.

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

FIELD TRIPS AND EXCURSIONS

During the 1931 Summer Session the College will inaugurate a movement that has for its object the familiarizing of those interested, with the "Great out of doors". To accomplish this, weekly nature study hikes will be conducted by specialists from the College faculty, who will introduce the 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 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 under construction by the Government. Following is a list of hikes planned. If it develops that other hikes are called for by a sufficiently large group, they can be arranged:

   —Director Wm. Peterson.

2. Bird life of Logan and vicinity—Wednesday, June 17.
   —Dr. Sedley Stanford.

   —Dr. W. W. Henderson.
4. Our Forest and Ornamental Trees.
   A visit will be made to the Jos. A. Smith's arboretum, one of the best in the intermountain West.—Wednesday, July 1.
   Prof. Charles M. Genaux.

5. The trees, shrubs and other plants of the famous White Pine Lake region.—Saturday, July 11.
   —Prof. R. J. Bercraft.

6. Aquatic Plants.
   The plant families of our sloughs, ponds and streams.—Monday, July 13.
   —Dr. B. L. Richards.

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.

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.

SPECIAL LECTURERS

A special series of 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, and one credit for attend-
ance at half the lectures. Students registering for only one credit may make their own choice of lectures. Register for Sociology 177.

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.

TEACHER'S CERTIFICATION

By attending the Summer Session of the Utah 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.

INTERSESSION WORK

There will be no regularly organized Intersession classes. Special courses, for which residence credit may be granted, will be organized following the Summer Session for those desiring to remain on for additional residence work. Just what courses will be offered will be determined by the requests received for such work. Special arrangements can also be made for students who desire to go on with research problems and field studies during the interval between the regular summer school and the opening of the fall quarter. The amount of credit earned in this way will depend upon the time spent and work accomplished. In general, by combining the Summer Session and the Intersession, it will be possible for students to obtain, in a single summer, credit for one quarter's work thus reducing by one quarter the time required for completion of work for a degree. A fee will be charged for all Intersession courses.
COURSES OF INSTRUCTION
Courses may not be given for fewer than five students.

AGRICULTURAL ECONOMICS AND MARKETING

W. P. Thomas, Professor.
C. R. Arnold, Professor
W. U. Fuhriman, Assistant Professor

54. The Economic Situation and Future Outlook for American Agriculture. This course is designed to give the student an understanding of the present economic position of agriculture and its future outlook. The basic factors contributing to the present agricultural situation will be analyzed and an appraisal made of trends and movements which are likely to influence the future economic development of agriculture. Two and one-half credits. Daily, 8:00. Room 359 Main.

Fuhriman


Fuhriman

102. Farm Management. This course will give particular attention to the obtaining, interpretation, and analysis of economic factors affecting farm organization and management. Special consideration will be given to the reorganization of the farm business to meet the present economic condition. Two and one-half credits. M. W. F. 10:00. Two laboratory periods to be arranged at convenience of students. Room 359 Main.

Fuhriman

Courses to be Given by C. R. Arnold, A. M., Assistant Professor Rural Economics, Ohio State University.

102. Farm Management. Analysis of Farm Business through record keeping.

This course is designed to give extension agents, Smith-Hughes teachers and others who may be interested in such a course, intensive training on methods of keeping farm accounts and analyzing the farm business. Also methods in conducting farm management demonstrations. One-half credit. Daily, 10:00 Room, 359. Week of July 6.

Arnold
154. The Agricultural Outlook. This course is designed to show the use of agricultural outlook information in adjusting farming operations to meet the present economic situation. One-half credit. Daily, 8:00. Room 359. Week of July 6.


AGRONOMY AND SOILS
D. W. Pittman, Associate Professor

106. Soils. Review of the entire field of soils study; designed as a foundation course for all students of agriculture. Prerequisite, chemistry 1. (High School Chemistry not adequate). Three and one-half credits. Lectures daily, 10:00. Lab. Tu. and Th., 1:30 to 4:30. Room 201. Plant Ind. Building.

ANIMAL HUSBANDRY
E. J. Maynard, Professor
Harry H. Smith, Assistant Professor

113. 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. Five credits. Daily, 8:00 and 12:30. Room 207 Live Stock Building.

Smith

103. 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. Two and one-half credits. Daily at 9:00. Room 207 Live Stock Building.

If five or more students express a desire for some other course than these listed in Animal Husbandry, such course will be arranged.

ART
Calvin Fletcher, Professor
B. J. O. Nordfeldt, Professor
Jesse Anderson, Instructor.

Art 5, 108, 208. Landscape Painting. Professor Nordfeldt will go out 4 p. m. to 7 p. m. with the painting group on Thursday for field help but students are free to work as many hours as they choose during the week, credit being allowed on the basis of 30 hours of painting per credit. Work
must be submitted Tuesday and Thursday at 12:15 for general class criticism. Efforts will be made to provide transportation for all who desire it by paying car owners reasonable mileage. Bring your own car if you can.

Those desiring to work indoors from still life, portrait or composition may work in the studios from 8 to 12 a.m. Instruction will be given 8 to 10 a.m. Tuesday and Thursday by Professor Nordfeldt. Criticism Tuesday and Thursday at twelve-thirty o'clock in room 355 Main Building.

Full time credit up to the summer maximum may be obtained for this work.

28. 121. Graphic Art. Professor Nordfeldt will give demonstrations and direct help in etching and wood cutting. Press is provided and tools may be obtained on the campus. Credit and time is arranged as in the work of painting. (See Art 5,108,208.)

52. Drawing for Public Schools. A study of the methods of teaching freehand drawing and painting, illustration and poster work in the grade schools with demonstrations on how to do it. Two and one-half credits. Daily, 9:00. Room 355.

52. Drawing for Public Schools. A study of the methods of teaching freehand drawing and painting, illustration and poster work in the grade schools with demonstrations on how to do it. Two and one-half credits. Daily, 9:00. Room 355.

123. Interior Decoration. Principles of Home Furnishing: wall treatment, color, furniture arrangement, draping, etc. and the architectural background necessary to the home beautiful. Two and one-half credits. Daily, 10:00. Room 355.

133. Painters and their Methods. Illustrated talks on painters and their ways of working with the idea of giving the student a critical judgment of the art of painting. Acceptable notes on the lectures will give one credit. May be taken with or without credit. M. W. F. 12:00. Room 355 Main.

Nordfeldt.

STUDIO COURSES

This work is all done in the studios Room 330 Main Building. Students may work any time, but must attend at least one criticism hour between 1:00 and 3:00 daily for instruction and check up. The choice of this hour must be reported during the first day or two to the instructor of the course. Credit will be given on a basis of 30 hours of work completed for each credit. The following courses are open and full time credit may be obtained if desired. Students will elect the amount of credit and the course or courses they desire.
7. 110 Illustration: Choose any of the following:
   - Pen and Ink Technic
   - Cartooning
   - General Illustrating
   - Costume Illustration

5. 108. Painting:
   - Monotypes
   - Block Printing
   - Poster Painting

10. 113. Show Card and Sign Writing or Poster Lettering.


111. Advanced Design. Elect one of the following lines 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.

8. Embroidery Design.


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:
   - Batik
   - Tie and die and plastic embroidery.
   - Block printing.
   - Stenciling
   - Lamp Shade Decoration

117. Jewelry

Note. Student work is subject to retention for exhibit purposes.
BACTERIOLOGY AND BIOCHEMISTRY
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 air, food and water, and the role they play in the arts and industries. Bacteria as the cause of disease. Five credits. Daily, 8:00 and 9:00. Room 302 W. Greaves.

15. 115. Biochemistry. The chemical transformations going on in the animal organism. Special consideration is given to the chemistry of foods and their digestion. Given if called for by six or more students. Two and one-half credits. Daily, 10:00. Room 302 W. Greaves.

BUSINESS ADMINISTRATION
Luell Hawley, Instructor

78. Shorthand—Advanced Theory. This course finishes Gregg Shorthand Theory. A review is given of the entire manual with advanced vocabulary development. Prerequisites: Shorthand Theory 75 and 76; Typewriting 89. Average rate of dictation 80 words per minute. Two and one-half credits. Daily, 8:00. Room 302 Main. Hawley

86. Typewriting—Beginning. This course is designed to develop correct technique in the operation of the machine. Average speed 25 words per minute. One credit. Daily, 9:00 and 12:30. Room 303 Main. Hawley

178. Methods of Teaching Commercial Education. A course dealing with the application of the principles of education applied to the teaching of Bookkeeping, Shorthand, and Typewriting in high school. Consideration to be given to such problems as motivation, presentation of subject matter, standards, and classroom organization. Two and one-half credits. Daily, 10:00. Room 302. Hawley

CHEMISTRY
R. L. Hill, Professor
Sherwin Maeser, Associate Professor

1. General Chemistry. An informal course in beginning college chemistry, designed especially for students who desire a brief applied survey
of this field of inorganic chemistry. Credit in this course can not be used as a prerequisite for any course in chemistry except Chemistry 26. Students majoring in chemistry or desiring pre-medical credit should register for Chemistry 3 and 4. Five credits. Daily, 8:00 and 12:30. Widtsoe Hall.

3. **Inorganic Chemistry.** A standard course in inorganic chemistry. Prerequisites: High School Chemistry or Physics or Chemistry 1 or Physics 1 and 2. Given if registration justifies. This course corresponds to the fall quarter of the standard course in Chemistry. Not given if fewer than five students apply. Five credits. Daily, 10:00. Laboratory, 2:30 to 5:30. Widtsoe Hall.

21. **Organic Chemistry.** The aliphatic hydro-carbons and their derivatives. This corresponds to the fall quarter of our standard courses in Organic Chemistry. Prerequisite, a standard college laboratory course in Inorganic Chemistry. Not given if fewer than five students apply. Five credits. Lecture daily, 9:00. Lab. daily, 2:30 to 5:30. Widtsoe Hall.

22. **Organic Chemistry.** The aromatic hydro-carbons and their derivatives. This continues course 21 and may be given as a double course for the three weeks immediately following the close of the summer term if a sufficient number of students apply. Five credits. Lectures and laboratory periods to be arranged. A special fee of $10.00 is charged for this course.

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

103. **Quantitative Analysis.** Three credits.

126. **Applied Organic.** A brief course on the application of organic chemistry to nutrition. Prerequisite Organic Chemistry. Two and one-half credits. Daily, 8:00.

**ECONOMICS**

V. D. Gardner, Assistant Professor

51. **General Economics.** After a brief survey of man's economic development, a careful study will be made of the fundamental laws and prin-
principles that govern our modern economic life. Contemporary economic developments will be used in the illustration of principles developed. Two and one-half credits. Daily, 8:00. Room 352 Main.

Gardner

111. Economic Geography. The relationship of man to the earth in which he makes his living. Attention will be paid to the influence of climate, transportation advantages, deposits of natural resources in the development of economic organization. Two and one-half credits. Daily, 10:00. Room 352 Main.

Gardner

130. Principles of Investment. This course will develop knowledge of the principles of managing and conserving funds and how to apply these principles to the varying investment needs of individuals. Two and one-half credits. Daily, 12:30. Room 352 Main.

Gardner

EDUCATION AND PSYCHOLOGY

Henry Peterson, Professor
Jean Betzner, Professor
H. W. Hachbaum, Professor
Loftur Bjarnason, Professor
Ernest A. Jacobsen, Associate Professor
Calvin Fletcher, Professor
L. R. Humpherys, Associate Professor
C. E. McClellan, Assistant Professor
Frances Barber, Instructor
Florence Anderson Felt, Instructor

Barber-Florence Anderson Felt

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 357 Main.

Barber

Observation School. Courses in Education are to be enriched by the organization of a demonstration school. Purposive, spontaneous activity on the part of the children requires strong leadership, organization, and vision—vision to see education as a growth, organization that promotes freedom for the instinctive nature to manifest itself, and leadership that arranges situations that will promote the growth of desirable habits. Daily, 1:30 to 3:30.

Barber-Florence Anderson Felt

5. Utah State Curriculum. Careful analysis will be made of the educational objectives, techniques, and expected outcomes of the principal
subjects taught in the public schools as they are outlined and described in the different State courses of study. In connection with this study, students who need to review the content material of some of the subjects they expect to teach, will receive individual help. Two and one-half credits. Daily, 10:00. Room 360.

Bjarnason

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, 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 306 Engineering.

Humpherys

101. Principles of Psychology. This course deals with the principles of human behavior. It is pre-requisite for other courses offered in senior college psychology. Junior college students may be admitted by special permission. Two and one-half credits. Daily, 7:00. Room 279 Main.

Peterson

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

Peterson

105. The Junior High School. In this course attention will be given to the educational function of the junior high school system, its organization and administration, principles of program construction, techniques of instruction and guidance. The aim will be to make the course as practical as possible to all who are concerned with the junior high school, as teachers or as supervisors. Much of the subject matter of the course will be derived from data provided by outstanding junior high schools of Utah. Two and one-half credits. Daily, 1:30. Room 360.

Bjarnason

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.
118. Applied Psychology. This course deals with the application of psychology to such activities as social, commercial, and industrial leadership. Prerequisite, a course in General Psychology. Two and one-half credits. Daily, 10:00. Room 279 Main.

Peterson

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 and activities of the teaching staff and the student body; (d) development of school support; (e) educational organization and relationships. Two and one-half credits. Daily, 8:00. Room 306 Engineering.

Humpherys

124. Methods of Teaching Industrial Arts and Farm Mechanics. Arranged primarily for teachers or individuals who plan to teach. Two and one-half credits. Daily, 1:30. Room 351 Main.

Humpherys


Humpherys

132. Educational Tests and Measurements. A study of the relation of measurement to the educational program. Emphasis will be placed on principles and practice in test construction and upon interpretation of test results. Two and one-half credits. Daily, 10:00. Room 357 Main.

Jacobsen

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 357.

Jacobsen

135. Statistics for Teachers. Practice in the computation and interpretation of simpler statistical measures. Use of labor saving devices in
statistical computations. Two and one-half credits. Daily, 8:00. Room 357 Main.

141. The Primary School. This course is designed to give a survey of the work of the first grades as influenced by modern educational theory and by special studies in subject matter and materials appropriate to the school period indicated. Classroom organization, materials, equipment, and curriculum will be considered in relation to the needs of young children. Two and one-half credits. Daily, 1:30 to 3:30. First three weeks. Room 132 Main.

Betzner

142. Teaching Through Activities. This course will be devoted to the principles underlying the curriculum, and to the actual planning, gathering of data, and of materials for specific activities. The individual and laboratory plan of conducting the class will be utilized. Two and one-half credits. Daily, 1:30 to 3:30. Second three weeks. Room 132 Main.

Barber

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 351 Main.

McClellan

169. Present Day Problems in Education. An inquiry into the educational problems attracting most interest in the United States today, as revealed by current literature. Daily, 12:30. Room 351 Main.

McClellan

170. Methods of Extension Teaching. This course is designed to give extension agents, specialists and others interested, training in the selection of an extension program and application of principles of teaching in order to get people to adopt recommended improved practices. Credit in this course may not apply as part of the twenty-seven hours of educational requirements for state certificate. One credit. Daily, 9:00. July 6 to July 17.

Hochbaum
171. Extension Programs. This course is designed to give extension agents, specialists and others interested, the fundamentals to be considered in setting up a proper balance between agricultural, home economics and 4-H club work in the building and execution of extension programs. Special attention will be given to the relationship of the home economics projects to the program as a whole. Credit in this course may not apply as part of the twenty-seven hours of educational requirements for state certification. One credit. Daily, 1:30. July 6, to July 17.

Related course, Art 52 Drawing for Public Schools. Daily, 9:00.

Hochbaum

ENGLISH AND SPEECH

N. Alvin Pedersen, Professor
Anne Carroll Moore, Professor
A. N. Sorensen, Associate Professor
Chester J. Myers, Assistant Professor

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 but that given for 10 is of Junior College grade, whereas that given for 108 is of Senior College Grade. Two and one-half hours credit. Daily, 9:00. Room 312 Library.

Pedersen

13. Children’s Literature. Introduction to the prose and poetry of childhood. Fairy tales, folk tales, stories and poems 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 314 Library.

Moore and Pedersen

20. Literature for Secondary Schools. A reading and discussion of books, long recognized as important as well as those of recent issue that promise to endure. Profitable for high school teachers, scout leaders, parents and all who are concerned and interested in their own youth and that of others. Two and one-half credits. Daily, 10:00. Room 314 Library.

Moore and Pedersen

First two weeks will be conducted by Miss Moore, last four by Mr. Pedersen.
52. History of English Literature. The third quarter of the Survey course in English Literature. Representative selections from the leading poets of the Romantic, Victorian, and later Victorian periods: prose selections from Lamb, Carlyle, Arnold, Thackeray, and others. Studies and discussions. Two and one-half credits. Daily, 10:00. Room 318 Library.

Sorensen.


Sorensen.

140. Shakespeare. A detailed study of three 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, 12:30. Room 312 Library.

Pedersen

175. Biography. Ten selected biographies will be studied in relation to their times. Comparisons of biographical methods: discussions of literary values, human interest, and points of view. Two and one-half credits. Daily, 8:00. Room 318 Library.

Sorensen.

SPEECH

Speech 2. Vocal Interpretation. The vocal interpretation of the printed page. The aim of the course is to develop the ability to appreciate intellectually and emotionally any good literature, and to interpret it so that others will appreciate it. Class limited to twenty-five. Two and one-half credit. Daily, 9:00. Room 280 Main.

Myers

Speech 6. Dialect. A study of dialect forms of such writers as Burns, Kipling, Drummond, Riley, Dunbar, Harris and Kirk. A course for those who desire a knowledge of the monologue and the use of various dialectic forms. Class limited to twenty-five. Two and one-half credits. Daily, 10:00. Room 280 Main.

Myers

Speech 110. Program Building. A study of types of audiences, and of material suitable for presentation before the same. Reading of short stories, plays, and novels to determine suitability. The cutting of stories, novels, and plays to suitable form and length for public reading. Class limited to twenty-five. Two and one-half credits. Daily, 8:00. Room 280 Main.

Myers
105. **General Geology.** Physical and Historical Geology. A study of the materials making up the earth’s crust, their arrangement and origin. Also, a study of the dynamic agents, such as wind, running water, moving ice, volcanic activities, etc., which operate upon the earth and modify its outer portion. A study of the sequence of events which have happened to the earth in the past as revealed by the rocks and fossils. A review of the building of the continent with its mountain ranges and the succession of life which has inhabited the earth. Field trips will be required. Five credits.

**Bailey**

112. **Physiography of Western United States.** The land forms of the western United States and how they came to be. A study of the mountain ranges, plateaus, valleys, and streams and the processes which have formed them. Natural resources will be given some attention. This course will furnish the geologic background for further geographic, economic, and social study. Occasional field trips. Two and one-half credits.

**Bailey**

113. **Paleontology.** Life succession as found in fossil records. Special emphasis will be placed on the origin and the development of the mammals of today. Occasional field trips. Two and one-half credits.

**Bailey**

Only one of the above two (112, 113) will be given, depending on registration.
131. **English History.** (1547-1714) Special emphasis will be given to a study of the English institutions basic in American History. Two and one-half credits. Daily, 9:00. Room 316 Library.

142. **United States History.** The Trans-Mississippi West. Special attention will be given to the Rocky Mountain and Pacific Coast regions. Two and one-half credits. Daily, 10:00. Room, 316. Library.

**HOME ECONOMICS**

Johanna Moen, Professor  
E. B. Groves, Professor  
Christine B. Clayton, Professor  
Charlotte Dancy, Assistant Professor  
Alta Orser, Instructor

**FOODS AND DIETETICS**


106. **Food Engineering.** Meal preparation and Service. Efficient method of preparing and serving meals at a minimum cost of time, energy and money. A study of menus suitable for the average home and for special occasions. Prerequisites: Food Preparation and Food Economics, or the consent of the instructor. Two and one-half credits. Daily, 10:00 to 1:00 H. E. 25.

**HOUSEHOLD ADMINISTRATION.**

130. **Child Training Problems and Child Development.** This course includes a discussion of standards of normal growth and development, problems of child behavior, and the nutritional requirements for normal growth and development. Designed for those preparing to give instruction in the care of children and for those directly in charge of children. Two and one-half credits. Daily, 9:00. Room H. E. 12.

Groves and Clayton

The second and third weeks of this course will be given by Dr. E. B. Groves, who will discuss the science of child care including the psychology
of infancy, the nature of the pre-school child, home and school adjustment in later childhood and the personal and social problems of the adolescent. This may be taken separately. One credit. Register for 130 b.

125. Mothercraft. This course includes the anatomy and physiology of the reproductive system. The preparation for motherhood. The care of the mother and child from the pre-natal period to the end of the first year of the child's life. Prerequisite. Physiology 4. Two and one-half credits. Daily, 10:00. H. 12.

Closely Related Course. Sociology 171 Social Problems of the Family. (See Sociology Department for write-up). Two and one-half credits. Daily, 1:30. M.

Groves and Hendricks

TEXTILES AND CLOTHING

5. Clothing Appreciation. This course aims to develop an appreciation of appropriateness, good color and design in dress. Clothing Economics and clothing hygiene will be discussed. Selection and care is emphasized. M.T.W.Th. 8:00. Two credits. H. 36.

Orser

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 or equivalent. Daily, 10:00 to 12:00. H. 36.

Orser

125. Applied Costume Design. Practical training in the application of the principles of costume design, color harmony, texture, for different individuals and purposes. Practice in constructive design is given by modeling in cloth on the dress form. Outside work required. Daily, 2:30-4:30. Consult with Instructor. H. 36.

Orser

MATHEMATICS

A. H. Saxer, Professor.

Math. B. Plane Geometry. This course is acceptable in lieu of one unit of entrance credit in plane geometry. Students taking this course must reduce their regular college registration by four hours. One H. S. unit of credit. Daily, 7:30 to 9:00. Room 178 Main.

Saxter
35. **College Algebra.** Quadratic equations and beyond. Will include a brief review of entrance algebra. Five credits. Daily, 10:00 and 12:30. Room 178 Main.

50. **Descriptive Astronomy.** An introductory course. General facts and principles underlying the science of astronomy in all its branches. Prerequisite. High School Algebra and Plane Geometry. Two and one-half credits. Daily, 9:00. Room 178 Main.

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**ENGINEERING AND MECHANIC ARTS**

Ray B. West, Professor  
A. J. Hansen, Associate Professor  
A. H. Powell, Associate Professor  
D. M. Swenson, Assistant Professor  
Sidney R. Stock, Assistant Professor  
S. R. Egbert, Assistant Professor

**RADIO AND PRACTICAL ELECTRICITY COURSES**

Radio Receiving Sets and Practical Electricity courses to be taught by Sidney R. Stock.

Each course will be completed in two weeks of six to eight hours a day and will be given as listed on the following dates.

123. Practical Electricity, June 22—July 3.

Students taking these courses will be required to have or to purchase their own special tools. The parts and materials used in the building of the projects must be paid for by the individual and become his property. The laboratory fee covers the cost of materials used. These courses will not be given if fewer than five students apply.

While these courses are especially designed for High School teachers who contemplate teaching similar courses in their high schools, they are especially valuable for all those owners of radios and automobiles who wish to know something of the workings of these machines. Registration fee, single course $9.00. Laboratory fee, single course $9.00.

124. **Radio Receiving Sets.** The fundamental principles of radio reception will be covered; also the building and proper installation of various types of antennae. The projects will include building a testing oscillator, crystal sets, one, two, three, four, and five tube receiving sets, or as many
as time permits. The same will be built from tested circuits and successful operating models. Three credits.

123. **Practical Electricity.** The course will be an application of the fundamental principles of electricity in the building of projects. The following are some of the projects to be built: Wire joints and splices, house wiring problems. Various doorbell and signal circuits, automatic poultry house switches. Magnetic compass. Telegraph key and sounder, electric top. A. C. and D. C. toy motors. Transformers, electric soldering irons, and soldering boards, heaters, Toasters, grills, etc. Three credits.

**AUTO MECHANICS**

M.A. 104. **Auto Mechanic.** This course is especially designed for High School teachers who have, or are contemplating, a course in automobile mechanics in their schools. It will include methods and equipment needed in the course. It will also be of great value for the person who desires to learn enough about the automobile to enable him to make his own minor repairs and adjustments. The operation, care, and adjustments of vital parts and mechanism of the chassis and motor will be taken up as follows: Gas engine, principles and operation; valve grinding; motor repair and bearing adjusting; selection of oils and proper lubrication; methods of locating and repairing common troubles in ignition, starting and lighting. Three credits. Second two weeks. (June 22 to July 3). Daily, 8:00 to 11:00 and 1:00 to 4:00. Room 206 Mechanics Arts.

Powell

**FORGING AND GENERAL BLACKSMITHING**

M. A. 132. **Ornamental Metal Work.** The bending, twisting, shaping of iron into such projects as lamp stands, jardiniere stands, chandeliers, etc.

**Cold Metal.** Filing, hack-sawing, drilling, cutting threads, grinding, drill bits, etc. Ex. of projects: Bending tools, rivet sets, soldering coppers, etc.

**Sheet Metal.** Making flux, tinning copper, soldering, laying out and forming of such projects as cooky cutter, sugar scoop, funnel, dust pan, pint cup, Boy Scout canteen. Three credits. Eight hours a day. July 6-July 17.

Egbert
WOODWORK, CONCRETE WORK, AND LEATHER WORK

One Week Course: June 2-6.

M. A. 168. Smith-Hughes Course: Harness repair. A course dealing with the essentials of leather work on the farm. Cleaning, oiling, and the care of harness, also making wax ends, stitching and riveting emphasized. One and one-half credits. Registration fee for this course alone $5.00.

Two Weeks Course: June 8-19.

M. A. 169. Ornamental Concrete. A course dealing with the use of color in concrete, which will be taught in the making of model fireplaces and hearths, tile finished in marble and onyx effects; travertine, bacheolder, and random tile; walks and copings in color, etc. Emphasis on suitable colors, proportion of mixture and time of application and ripening. Three credits. Registration fee $9.00. Cost of materials for each student $10.00.

Six Weeks Courses:

M. A. 170. General Woodwork. A course designed to meet the varied requests of Summer School students. Work from any of the courses numbered above 100 in the general catalog may be selected and credit arranged with instructor. 8:00-11:00 daily.

M. A. 165. Wood Turning. Special course for teachers and students of advanced shop work. Staining and finishing emphasized. M.W.F. 1:00 to 4:00. Two credits.

M. A. 167. Wood Finishing. Preparing wood for finishing. Use of oil, water, and spirit stains. Filling, varnishing, and polishing. T. Th. 1:00-4:00. One and one-half credits.

MODERN LANGUAGES

George C. Jensen, Assistant Professor

German Ia. Grammar and Conversation. Two and one-half credits. Daily, 8:00. Room 356.

German Ib. Reading and conversation. Two and one-half credits. Daily, 12:30. Room 356 Main.
German 104. Scientific German. Readings in Chemistry, Physics, Physiology and Biology. Two and one-half credits. Daily, 10:00. Room 356 Main.

Jensen

MUSIC

Walter Welti, Assistant Professor
Miss Laura Bryant, Professor
N. W. Christiansen, Assistant Professor

Associated

William Spicker, Violin
S. E. Clark, Piano
Mrs. Walter Welti, Piano
Mrs. N. W. Christiansen, Piano
A. L. Farrell, Voice

SENIOR COLLEGE COURSES

Note: All of Miss Bryant's classes will be conducted the first three weeks only.

150. Methods. The principles and methods of teaching music in the grades, from first year to sixth year inclusive. Particular attention will be given to tonal and rhythmic problems as they appear in successive years. One and one-half credits. Daily, 8:00. Band Room.

Bryant

151. Harmony. Chord structure and relationship; primary chords: the minor mode; open and close harmony. Two and one-half credits. Daily, 9:00. Room 130.

Welti

152. Music Appreciation. Studied from three points of view: form, history, biography. A course of general information in music history and appreciation. Two and one-half credits. Daily, 10:00. Room 130.

Welti


Bryant

156. Private Instrumental or Vocal Lessons. Six hours a week of practice is required. Special fee will be charged ranging from $1.00 to $2.50.
according to the teacher. Lesson periods will be arranged at the convenience of students. One credit.

Welti, Vocal
Christianson, Instrumental and Associated Teachers.

157. Mixed Chorus. Open to all summer school students. A program will be prepared and presented by this chorus. One credit. One-half credit may be added by registering for Music 154. Daily, 12:30. Chapel.

Bryant

158. Harmony. Prerequisite Music 151 or its equivalent. A study of intervals; non-harmonic tones; the dominant seventh; inversions of the primary chords. Two and one-half credits. Daily, 1:30. Room 130.

Welti


Bryant

161. Harmony. Prerequisite Harmony 151, 158. A brief review of primary chords, followed by an intensive study of secondary chords and their inversions, in open and close harmony; modulation. Two and one-half credits. Daily, 9:00. Room 252A.

Christianson

165. Band and Orchestra Methods. Making a study of the various band and orchestra instruments, and the essential points in teaching them. Students will be taught to play upon various instruments, as well as to transpose for their own instruments from other parts. Band and orchestra organization will also be discussed. The course is designed for those who may teach elementary bands and orchestras. Daily, 10:00. Band Room.

Christianson

171. Harmony. Prerequisite: Harmony 151, 158, 161 or their equivalents. Beginning with modulation, and continuing through altered chords and secondary seventh chords. Analysis of various grades of music will accompany this course. Two and one-half credits. Daily, 1:30. Band Room.

Christianson
PHYSICAL EDUCATION

W. B. Preston, M. D., Professor
Elmer D. Mitchell, Professor
Wallace Wade, Football Coach
Sam Barry, Basketball Coach
Joe Pipal, Track Coach
Margaret Burns, Director of Women’s Athls. & Games
Marian Lee Kurtz, Director Social Dancing
Olga Carlson, Director of Girl Scout Activities
E. L. Romney, Director of Athletics
Joseph R. Jensen, Associate Professor
Catherine C. Carlisle, Associate Professor
George Nelson, Wrestling Coach

1. Elementary Gymnastics... This course is given for those students who are desirous of working up their Physical Education requirements for graduation. It will include gymnastic exercises, physical activities of all kinds, such as swimming and tennis. One-half credit. Daily, 3:30. Men’s Gymnasium.


42-b Ballroom Dancing—Men and Women. No previous knowledge of dancing necessary. This course embraces all forms of modern ballroom dancing and dances suitable for playground and recreation teachers. June 28-July 17, inclusive. One-half credit. Daily, 2:30.—Women’s Gym.
64. **Clog Dancing**—Men and Women. This course includes clog, athletic and gymnastic dancing. June 8-26, inclusive. One-half credit. Daily, 8:00—Women's Gym.


66. **Theory and Practice of Play and Minor Games**—Men and Women. A study of play material as in Captain Ball, Catch Ball, Scouting, Clubs, etc. Opportunity will be given for each student to work on his individual problem. June 28-July 17, inclusive. One credit. Daily, 1:30. Men's Gym.

67. **Social Dancing**—Men and Women. No previous knowledge of dancing necessary. Latest forms of the waltz, drag, foxtrot, and one-step, featuring the University Drag. June 28-July 17, inclusive. One-half credit. Monday, Wednesday and Friday evenings, 8:00. Men's Gym.

68. **Advanced Swimming** for men. A continuation of course 3. The student will be required to pass certain standard tests. Daily, 4:00. Two credits.

69. **Recreational Athletics.** A course dealing with athletics, games and sports for recreational purposes. This course is designed to meet the program of intramural athletics. Two credits. Daily, 1:30. Men's Gym.

70. **Advanced Gymnastics.** Methods of conducting class instruction in posture training, class corrective work, marching, gymnastic drills, light apparatus, heavy apparatus, group games, tumbling, pyramids, athletic dancing, etc. Two credits. Daily, 9:00. Gym.
81. **Theory and Practice of Athletic and Major Games—Women.** Basketball, Soccer and one other game to be selected by the group. A study of teaching problems, technique and recreational values. June 28 to July 17, inclusive. One credit. Daily, 8:00—Men's Gym

Burns

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 especial value to students contemplating either professional or volunteer recreational leadership. One credit. Daily, 3:00 to 5:00. Week of July 6. Registration fee $1.00.

Carlson

92. **Swimming—Women.** A course for beginners, including elementary strokes and diving. One credit. Daily, 12:00.

Carlisle

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

120-A. **Theory of Training and Coaching for Men's Athletic Teams.** Track and field athletics will be stressed. June 13 to June 19 inclusive. Daily, 8:00 to 11:00. One credit.

Romney and Pipal

120-B. **Basketball Coaching.** June 8 to 12, inclusive. Daily 2:00 to 5:00. One credit.

Barry

120-C. **Wrestling.** June 15 to June 19, inclusive. Daily, 2:00 to 4:00. One-half credit.

Nelson

120-E. **Football Coaching.** June 8 to June 12. Daily, 7:00 to 11:00. One Credit.

Wade

Mr. Pipal will lecture on lateral pass June 11 and June 12, from 11:00 to 12:00, and on June 13 from 8:00 to 11:00—No credit. He will lecture on track and field June 15th and 16th.

Carlisle

During the week of June 15 to 18 this class will recite at 3:30. 

Dr. Mitchell


Kurtz

161. Principles of Physical Training. A study of the aims, objective, and scope of Physical Education and Health Education. History of the movement, comparison of systems; general survey of the literature in the field is made to serve as a background for later studies. Two and one-half credits. Daily, 12:30, Gym. During the week of June 15-19 this class will recite at 3:30. 

Jenson and Mitchell

162. Utah Course of Study for Physical Education. A study of methods in teaching Physical Education in the State of Utah. The material to use, the content of the work, etc. One credit. Daily, 3:30. July 15-19. Dr. Mitchell

PHYSICS

F. L. West, Professor 
A. H. Saxer, Professor

10. General Astronomy. Two and one-half credits. Daily, 9:00. Room 178 Main. Saxer

20, 21, 22. General Physics. Five credits. Lecture daily, 10:00 and 12:30. Laboratory daily, 1:00 to 4:00. Widtsoe Hall.
POLITICAL SCIENCE

F. D. Daines, Professor

102. Current International Problems. Current and recent happenings of international import in their relation to problems connected with international cooperation. Two and one-half credits. Daily, 8:00. Room 361 Main.

115. City Manager Government. A study of the advantages and limitations of this form of city government with special reference to its adaptability to cities of Utah and neighboring states. Two and one-half credits. Daily, 9:00. Room 361 Main.

119. Relation of Government to Industry. An interpretation is sought of the present trends in regard to governmental regulation and control of important industries in the United States, the labor policies of the government and governmental aids to industry, with a discussion of the political philosophy implied in these trends and policies. Two and one-half credits. Daily, 10:00. Room 361 Main.

PHYSIOLOGY AND PUBLIC HEALTH

W. B. Preston, Professor
E. G. Carter, Associate Professor
Charlotte E. Dancy, Assistant Professor


14. Health Education. This course deals with the adaptation of subject matter and methods to health education in the grades. Consideration will be given to the various devices used at the present time in health teaching. The health of the teacher and the health habits of pupils are emphasized. Two and one-half credits. Daily, 9:00. Room 132 Main.
107. Physiology. An upper division course dealing with recent advances in physiology. Prerequisite Physiology 4. Daily, 8:00. Room 227 Main.

109. Public Health and Hygiene. A course designed to acquaint the student with a broad conception of the principles of hygiene and preventive medicine. The several approaches to positive health will be discussed and the general field of public health activities will be outlined. Two and one-half credits. Daily, 10:00. Room 132 Main.

115. Journal Club in Public Health and Physiology. The current literature in the various phases of hygiene and public health will be reviewed and discussed. Prerequisite, work in Public Health or Physiology. One credit. Hours to be arranged. Room 126 Main.

SOCIIOLOGY

Joseph A. Geddes, Professor
E. R. Groves, Professor
Caroline M. Hendricks, Assistant 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 opinions, social organization, and societal evolution are considered. Two and one-half credits. Daily, 10:00. Room 358, Main.

170. Juvenile Delinquency. A study of juvenile offenders. The causes of delinquency are considered with the purpose of arriving at intelligent remedies. Various methods of home, social, and institutional treatment are studied including parental cooperation, personal supervision allied with probation and parole, etc. Two and one-half credits. Daily, 9:00. Room 358, Main.

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 cooper-
ative undertaking between members. Two and one-half credits. Daily, 1:30. Room 280, Main.

E. R. Groves and Mrs. Hendricks

The second and third weeks of the above course will be given by Dr. E. O. Groves who will discuss the social conditions influencing the American family, recent changes in family life, the psychology of family relationships and the parental education movement. This may be taken separately. Register for 171 b. One credit.

ZOOLOGY AND ENTOMOLOGY

W. W. Henderson, Professor
J. S. Stanford, Assistant Professor

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., 2:30; field trips or laboratory T. Th. 2:30 to 5:30. Room 227 Main.

Henderson

102. Systematic Entomology. The structure of insects is studied sufficiently to enable the student to use keys employed in classification. Each student must collect, amount, 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.

Henderson

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

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 227 Main.

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**

201. **Zoological Research.** The student who wishes to engage in some line of original research and is qualified to do so may elect and study some topic from eugenics, ecology, morphology or other branch of zoology. **Open to 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**