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UTAH STATE AGRICULTURAL
COLLEGE
BULLETIN

Correspondence-Study Department

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Utah State Agricultural College

ELMER GEORGE PETERSON, President

Logan, Utah

Correspondence-Study Department

JAMES H. LINFORD, Superintendent

Correspondence-Study Courses

A Practical, a Preparatory, and a College Education available to all.

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General Information

THE NATURE OF CORRESPONDENCE-STUDY

Correspondence-study is designed to give to people everywhere who cannot attend college an opportunity to get some of the instruction and culture that is obtained by those who can attend in residence.

Correspondence-study is not only feasible but decidedly practical. Hundreds of men and women have qualified themselves for higher positions with the help of correspondence-study. Hundreds of men are now using the odds and end of time they would otherwise waste, preparing for the lucrative positions that await the man with training. Young men and women supporting themselves, men whose circumstances have not permitted them to attend college continuously until graduation, and married men with families are learning while they earn, and so reducing the time of resident study necessary for a degree.

Regarding correspondence-study, the University of Texas Bulletin says: "Correspondence-study offers substantial advantages. In correspondence-study instruction the teaching is entirely individual; each student comes into individual relation with the instructor in a way impossible in the crowded class-room. He recites the whole of every lesson with a consequent advantage to himself that is obvious. Full opportunity is given to discuss all difficulties in writing, and this written discussion in itself affords valuable training. Further, the correspondence student is not hampered by the usual time regulations; he may take up study at his convenience without awaiting the fixed order of a college term."

Again quoting, the University of Oregon Monitor says: "Those who find their only opportunity for study in the correspondence-study method

should never feel apologetic or unfortunate. Dr. Harper, once president of the University of Chicago, long ago discovered that the work done by correspondence study is even better than that done in the class room. The University of Pittsburg reports that many correspondence-study students testify that their correspondence-study meant more to them than work in residence. The University of Oregon and scores of other Universities and Colleges, including Universities of Wisconsin, Chicago, Indiana, California, Minnesota and North Carolina, endorse the method of granting college credit to their successful correspondence-study students. The correspondence-study method, then, is a valid, practicable, approved method of study and instruction."

Correspondence-study as offered by the Utah State Agricultural College is instruction of college or of high school grade, made available to persons who are not able to attend college in residence. It is instruction by means of lesson outlines based on text-books by recognized authorities. These lessons are prepared by or under the direction of members of the College Faculty and take the place of lectures and class exercises given to students in residence. The student does the work outlined in the assignments and mails them to the Correspondence-Study Department, Utah State Agricultural College, Logan, Utah, for correction and helpful suggestions by competent instructors.

FOR WHOM INTENDED

Correspondence-study is particularly helpful to the following groups of people:

1. College students who cannot pursue continuous residence courses.
2. Teachers who cannot avail themselves of instruction in residence but who must have additional credits in order to renew their certificates.
3. Those who have had a partial college course and who wish to work along some special lines.
4. Professional and business men and women who wish to supplement their training.
5. Men and women too old to go to school, yet who feel the urge for more knowledge or wish to prepare for a change of vocation.
6. Club women who wish to pursue a systematic course of study
7. High school graduates who are unable to attend college immediately after their high school work.
8. High school students who for various reasons lack a few units of completing the high school curriculum; such students should consult their principal before registering.

RULES GOVERNING CORRESPONDENCE-STUDY WORK

1. Students may register at any time during the year.
2. Students may not pursue more than two courses at a time without special permission of the superintendent of the Correspondence-study department.
3. Students have one year from date of registration in which to complete the course for which they register; however, this period may be extended for six months by paying a small reinstatement fee.

4. Before receiving credit in a course a final examination is required. Those living at a distance from the College may take this examination in their home city if arrangements can be made with a superintendent of schools, a school principal or teacher to act as examiner. Any expense incurred in arranging for the test must be borne by the student being examined.

5. The student must not send in incomplete assignments; if for any reason it is impossible to complete the assignment with the information at hand, it should be laid aside and the next lesson taken up.

6. The assignments must be sent to this office as they are prepared; not more than two or three completed assignments should be sent in at a time.

7. Unless students can call for their corrected assignments, sufficient postage must be included for their return.

8. Address all communications regarding the work to Correspondence-Study Department, Utah State Agricultural College, Logan, Utah.

9. Correspondence-study courses cannot be taken at the same time residence work is being carried without special permission.

ADMISSION

All students who have graduated from an accredited high school or who have fifteen units of approved units of high school work may register for courses of college grade, and those who have completed the work of the grade schools may enter upon a high school course, or, persons 19 years of age or over who have less than 15 units of high school work may take such courses as their preparation will justify.

Such students, however, must satisfy the entrance requirements of the College before entering as resident students.

HOW TO REGISTER

Students desiring to do correspondence-study work should look carefully over the courses offered, select those they desire to pursue, and then fill out the application card that accompanies this circular, enclose the registration fee of \$2.00 a credit hour, and mail to the Department of Correspondence-Study, Utah State Agricultural College, Logan, Utah. On receipt of this card and the registration fee, assignments, or lessons, and directions for study will be forwarded.

CONDITIONS

A student may begin at any time but may not complete more than four credits a month without permission. Reports must be distributed evenly over that period, and may be rejected if the work is compressed too much.

FEEES

Registration fees are \$2.00 a credit hour, or \$5.00 for each one-half unit of high school credit.

Students may enroll at any time but all courses must be completed within one year from date of enrollment. Students may be reinstated for a period

of six months on payment of a fee of one dollar, provided they have registered since July 1st, 1930, but if they registered before that date a reinstatement fee of \$1.00 a credit hour will be charged.

In certain courses requiring apparatus, special outlines, guides, or other equipment, an additional fee is charged. Make all checks payable to the order of the Secretary, Utah State Agricultural College.

No fee will be refunded on account of the student's inability to begin or continue a course for which he has registered.

EXAMINATIONS

Before a final grade is given in any subject, an examination is required. Whenever possible, this examination is to be taken at the College; where this is not possible, the examination may be taken before a city or a district superintendent of schools, a school principal, or if neither of these is available a teacher approved by the department. The examined student will pay any expenses that may be incurred in connection with the examination.

CREDITS

A memorandum of credit will be issued on the completion of any of the courses of study, the payment of all dues, and the return of reference books and bulletins; this credit may be used to apply towards teacher's certification or towards graduation from the Utah State Agricultural College and many other colleges and universities of the country

One-fifth of the number of credits necessary for a bachelor's degree may be earned through correspondence-study. The amount of credit to which the student is entitled for the completion of any work is given in the description of courses outlined on the following pages.

Courses of Instruction

AGRICULTURAL ECONOMICS AND MARKETING

W P Thomas, Professor
W. U. Fuhrihan, Associate Professor
George T' Blanch, Associate Professor
H. H. Cutler, Assistant Professor
Ernest Morrison, Assistant

53. **Principles of Agricultural Economics.** A general course in the principles and problems of agricultural economics including the production on the farm, distribution of the agricultural income, and government policies towards agriculture. Prerequisite, General Economics. Five credits.

Text-book: Dummeier and Heflebower, Economics with Applications to Agriculture. 1934 edition, \$3.75. McGraw-Hill Publishing Co., San Francisco.

62. **Principles of Marketing.** This course will cover the basic principles and facts necessary to a clear understanding of the problems of marketing.

Supply of and demand for commodities, prices and production, the economic relations of the primary producers, middlemen and consumers, receive special consideration. Prerequisite, General Economics. Three credits.

Text-book: Maynard, Weilder and Beckman, Principles of Marketing. 1932 Revised Edition, \$4.50. Ronald Press, N. Y.

70. **Farm Management and Accounts.** This course deals with the keeping, use, interpretation, and analysis of farm accounts and their use in farm organization and operation. Three credits.

Text-book: Hopkins, Elements of Farm Management. 1936 edition, \$2.20. Prentice-Hall, San Francisco. Also mimeographed material and farm account book.

113. **Cooperative Marketing.** A study of the fundamental principles and practices of cooperative purchasing and marketing. Special attention will be given to the development and growth of cooperative activities among the farmers in the United States. Prerequisite, General Economics. Three credits.

Text-book: Filley, Cooperation in Agriculture. 1929 edition, \$4.00. Wiley and Sons, San Francisco. Also readily available bulletins.

AGRONOMY AND SOILS

R. J. Evans, Professor of Agronomy

D. W. Pittman, Professor of Soils

A. F. Bracken, Associate Professor

D. C. Tingey, Associate Professor

Bliss Crandall, Assistant

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

Text-book: Hughes and Henson, Crop Production. 1930 edition, \$4.50. Macmillan Co., San Francisco.

6. **Soils.** Review of the entire field of soil study, designed as a foundation course for all students of agriculture. Four credits.

Text-book: Pittman, Soil, The Foundation of Agriculture, Part 1. 1932 edition, \$3.00. U. S. A. C. Book Store. Utah Experiment Station Bulletin, No. 233, free. California Experiment Station Bulletin, No. 556.

101. **Cereal Crops.** The history, cultivation, production, and marketing of cereal crops; a basis for judging and grading plant products. Three credits.

Text-books: Carleton, Small Grains. 1916 edition, \$2.90. Montgomery, Corn Crops. 1920 edition, \$2.00. Both by Macmillan Co., San Francisco.

102. **Root Crops.** Sugar beets, potatoes, mangels, turnips, other crops, and beans; cultural methods, market types, and commercial possibilities are studied in detail. Three credits.

Text-books: Harris, The Sugar Beet. 1917 edition, \$2.75. Macmillan Co., San Francisco. Stuart, The Potato. 1927 edition, \$2.25. J. P. Lippincott Co., Chicago.

108. **Soil Conservation and Management.** The composition, nature and management of soils of arid regions; special attention to water relations,

alkali, rotations, and other problems in the management of arid soils. Prerequisites: Agronomy 6 and either Geology or Bacteriology 1, preferably both. Three credits.

Text-book: Pittman, Soil, The Foundation of Agriculture Part II. 1932 edition, \$3.00. U. S. A. C. Book Store. Utah Experiment Station Circular No. 103.

ANIMAL HUSBANDRY

W. E. Carroll, Professor
 Harry H. Smith, Associate Professor
 A. C. Esplin, Assistant Professor
 Eldon Campbell, Assistant

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

Text-books: Morrison, Feeds and Feeding, 20th edition, Unabridged, \$5.00. Morrison Publishing Co., Ithaca, N. Y. Bull and Carroll, Principles of Feeding Farm Animals. 1937 edition, \$3.50. Macmillan Co., San Francisco.

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

Text-book: Vaughan, Breeds of Livestock in America. 1931 edition, \$3.75. R. G. Adams and Co., Columbus, Ohio.

110. **Beef Cattle Production.** The selection, feeding, and marketing of range and feeder cattle, and the management of the breeding herd of beef cattle. Three credits.

Text-book: Snapp, Beef Cattle. 1930 edition, \$4.00. John Wiley & Sons, San Francisco.

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

Text-books: Gay, Productive Horse Husbandry. 1932 edition, \$3.00. J. P. Lippincott, Chicago. Practical Light Horse Breeding, American Remount Association, Book Dept., 809 Otis Bldg., 810-18 St., Washington, D. C., \$3.50. Also bulletins.

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

Text-book: Smith, Pork Production. 1937 edition, \$3.00. Macmillan Co., San Francisco.

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

Text-books: Coffey, Productive Sheep Husbandry. 1927 edition, \$3.00. Lippincott and Co., Chicago. Hultz and Hill, Range Sheep and Wool, 1931 edition, \$3.00. John Wiley & Sons, San Francisco.

ART

Calvin Fletcher, Professor
H. R. Reynolds, Assistant Professor
Mrs. Mary Deming, Assistant

2. **Elementary Design.** Principles of design as applied to color, form, and pattern in the common things about us. Three credits.

Text-book: Adolpho Best-Maugard, *A Method for Creative Design*. 1926 edition, \$2.50. Alfred A. Knopf, New York.

32. **Color.** Color as used in painting, design, and the every day affairs of life. Its physical, psychological, and artistic phases are correlated. Designed for the business man, layman, dramatic artists, art teachers and art students. Three credits.

Text-book: Jacobs, a study of Color. 1927 edition, \$3.00. Doubleday, Doran & Co., Garden City, New York.

33. **History and Appreciation of Art.** Survey course in appreciation of the masters from Cimabue to the present. Designed for the layman desirous of extending his art knowledge as well as for art teachers and art students. Three credits.

Text-books: Helen Gardner, *Art Through the Ages*. 1926 edition, \$4.00. Helen Gardner, *Understanding the Arts*. 1932 edition, \$2.00. Both by Harcourt, Brace & Co., Chicago.

123. **Home Furnishing and Decoration.** Components and principles of art in relation to their use in the home; traditional and modern styles in furniture, garden design; houses, apartments, furnishing plans, furnishing budgets, furniture arrangement, backgrounds, floor coverings, textiles, illumination, accessories, pictures, table equipment, flower arrangement, and practical laboratory problems in home decoration. Five credits.

Text-book: Rutt, *Home Furnishing*. 1935 edition, \$4.00. John Wiley & Sons, San Francisco.

126. **History and Appreciation of Architecture.** The characteristics of the great styles of buildings and their evolution, and the development of a taste for good architecture. Adapted alike for the layman, home maker, or teacher. Three credits.

Text-book: Kimball and Edgell, *History of Architecture*. 1918 edition, \$3.50. Harper & Bros., N. Y.

BACTERIOLOGY AND BIOCHEMISTRY

J. E. Greaves, Professor
Ralph Johnson, Assistant

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. Five credits.

Text-book: Greaves, *Elementary Bacteriology*. 1936 edition, \$3.50. Saunders Publishing Co., Philadelphia, Pa.

102. **Soil Bacteriology.** Bacteria are considered in relation to soil fertility. Prerequisite, Bacteriology 1. Three credits.

Text-books: Greaves, *Agricultural Bacteriology*. 1922 edition, \$4.00. Lea & Febiger Co., Phila. Pa. Greaves, *Bacteriology and Soil Fertility*. 1925 edition, \$2.50. D. Van Nostrand Co., N. Y.

BUSINESS ADMINISTRATION

P. E. Peterson, Professor

Thelma Fogelberg, Assistant Professor

L. Mark Neuberger, Instructor

Accounting

1, 2. **Introductory Accounting.** The purpose of this course is to present the basic principles of accounting and to furnish working material in the form of questions, problems, and practice sets which require the application of the theory advanced. Principles learned here will be useful as a basis for further study of accounting and as an aid in the understanding and control of the more common problems of business. Technique will be strongly emphasized. Five credits each division.

Text-book: Walton's Accounting Series. \$9.40. Walton School of Commerce, Chicago.

101, 102. **Fundamentals of Accounting.** A basic course in fundamental theory. Emphasis will be given to the construction and interpretation of accounts. Required of all students majoring in Business Administration and accounting. Prerequisite, Mathematics 34. Three credits each division.

Text-book: Accounting, Porter and Fiske. 1935 edition, \$3.90. Henry Holt and Co., Chicago.

111 **Industrial Cost Accounting.** A detailed study of the principles of cost accounting as applied to manufacturing industry, with particular stress upon methods of burden distribution and interpretation of cost statistics. Lectures with assigned problems and cases. Five credits.

Text-book: Lawrence, *Cost Accounting and Set*. 1933 edition, \$4.00. Set \$1.75. Prentice-Hall, San Francisco.

Business Administration

25. **Introductory Business Administration.** An introductory course in the fundamentals of business administration. It is intended that this course shall furnish the students with a background for the study of the more complex problems of business. Not open to freshmen. Five credits.

Text-book: Fernstrom and Others, *Organization and Management of Business Enterprises*. 1935 edition, \$3.50. Harper & Bros., N. Y.

28. **Business Finance.** Treats of the every day problems of the business concern; the principles of sound financing; the various forms of security issues; methods of raising capital through the sale of securities; promotion and underwriting; and the proper management of financial funds. Three credits.

Text-book: Hoagland, *Corporation Finance and Work Book*. 1933 edition, \$5.50. McGraw-Hill Co., San Francisco.

54. **Business Psychology.** A study of (1) psychological facts and principles applicable to the business functions of production, marketing, finance, and labor and personnel, and (2) psychological methods of attack upon business problems. Three credits.

Text-book: Kepner, *Psychology in Modern Business*. 1935 edition, \$4.00. Prentice-Hall, San Francisco.

157. **Principles of Advertising.** A study of advertising as a device in facilitating the distribution of commodities. The course includes a study of the structure of advertisements for different products, the choice of media, and the work of advertising departments and agencies.

Text-book: Sandage, *Advertising (Theory and Practice)*. 1936 edition, \$4.00. Business Publications Inc., Chicago.

SECRETARIAL SCIENCE

30. **Business English.** This course aims to give the student practice in the writing of different kinds of business letters including Sales, Credit, Collection, Adjustment Letters, and Letters of Application. The latest trends in business correspondence will be stressed. Three credits.

Text-book: Aurner, *Effective English in Business*. 1935 edition, \$3.20. South-Western Publishing Co., San Francisco.

75. **Elementary Stenography.** Thorough drill in the fundamentals of the Gregg system of shorthand. Five credits.

Text-books: Gregg Manual. Anniversary Edition, \$1.50. Gregg Progressive Exercises, \$1.20. Both by Gregg Publishing Co., San Francisco.

81. **Speedwriting.** This course is an abbreviated system of longhand—A Natural Shorthand. Speedwriting is a shorthand written with the a, b, c's. This course is recommended to students for the taking of ordinary office dictation, and also to facilitate note-taking. Average rate of dictation at end of course, 60 words a minute. Five credits.

Text-book: Dearborn, *Speedwriting*. \$2.75. Brief English Systems Inc., 200 Madison Ave., N. Y.

86. **Typewriting 1.** 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. Average speed at the end of the course 20 words a minute. One credit.

Text-book: Lessenberry, *Twentieth Century Typewriting*. College Edition, \$1.25. South-Western Publishing Co., San Francisco.

87. **Typewriting 2.** This course continues with the advanced development of those features of the beginning course and in addition includes: Setting-up Copy—Frequency, Phrase, and Word Combination Drills. Sentence and Paragraph Practice.

Average speed, end of the course, 25 words a minute. One credit.

Text-book: Same as for 86.

88. **Typewriting 3.** This course continues with the advanced development of the features developed in Typewriting 1 and 2, and in addition includes:

21700

Letter writing, stressing Placement, Essentials, Styles, Tabulating. Average speed, end of the course, 30 words a minute. One credit.

Text-book: Same as for 86 and 87.

175. **Office Management.** This course is designed to familiarize students with all phases of business practice which the office assistant is called upon to perform. Aside from the general office routine, attention will be given to office management itself, office lay-out, and equipment with the view of preparing the student for some of the duties of the office manager. Prerequisites, two years typewriting and Stenography, Elementary Psychology, Introductory Accounting, and General Economics. Three credits.

Text-book: Leffingwell, Text Book of Office Management. 1932 edition, \$3.00, McGraw-Hill Co., N. Y. Darlington, Office Management. 1935 edition, \$1.75, Ronald Press, N. Y.

DAIRY HUSBANDRY

George B. Caine, Professor

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

Text-book: Eckles, Dairy Cattle and Milk Production. Revised edition, \$3.00. Macmillan Co., San Francisco. Hoard's Dairyman, Fort Atkinson, Wisconsin. \$1.00 per year.

110. **Dairy Production.** A study of the purebred cattle breeding. Care and management of dairy sires. Special emphasis on feeding for milk production. A brief study of metabolism and the characteristics of feeds and feeding standards. A thorough study of housing dairy cattle. Prerequisite, Dairy Production 109. Three credits.

Text-book: Same as for course 109.

ECONOMICS

W. L. Wanlass, Professor

L. Mark Neuberger, Instructor

4. **Economic Resources of the United States.** An analysis of the resources and industries of the United States, with emphasis upon their regional distribution. Effects of the physical and geographic environment upon population and the social system. Particular attention is paid to those forces bringing about changes in our economic structure. Three credits.

Text-book: Smith, North America. 1925 edition, \$4.75. Harcourt, Brace & Co., Chicago.

30. **Economic Development of the United States.** This course indicates the dominance of economic forces in history. A critical study of the evolution and progress of American agriculture, industry, commerce, transportation, banking, labor organizations, etc., from the Colonial period to the present time, ending with a survey of existing institutions. Three credits.

Text-book: Faulkner, American Economic History. 1931 edition, \$3.50. Harper & Bros., N. Y.

51. **General Economics.** An introductory course covering the entire field of economics. After a brief survey of man's economic development, a careful survey is made of those fundamental principles upon which modern economic life is based. Attention is also given to such subjects as money, credit, exchange, the business cycle, price, etc. Five credits.

Text-book: Frain, *An Introduction to Economics*. 1937 edition, \$3.00. Houghton Mifflin Co., San Francisco.

52. **Advanced General Economics.** This course is especially designed for students in the School of Commerce and others who desire a thorough grounding in economics. A more intensive study of economic laws will be made with special reference to their application to present economic problems such as: business cycles and their control, free trade and protection, stabilizing the monetary system, reduction of inequality, the plight of agriculture, government regulation and ownership, liberalism, socialism, communism, economic planning, and economic progress. Prerequisite, Economics 51. Five credits.

Text-book: Bye and Hewett, *Applied Economics*. 1930 edition, \$3.75. F. S. Crofts & Co., N. Y.

125. **Labor Problems.** A study of the labor situation from the social point of view. Special attention is given to labor problems and to methods of securing industrial peace. Prerequisites, Economics 51, 52. Three credits.

Text-book: Daugherty, *Labor Problems in American Industry*. Third edition, \$3.50. Houghton Mifflin Company, San Francisco.

155. **Principles of Taxation.** After a brief survey of the fundamental economic principles of public finance, a critical examination of our federal, state, and local taxes, and the various business taxes will be studied. Prerequisites, Economics 51, 52. Five credits.

Text-book: Buehler, *Public Finance*. 1936 edition, \$4.00. McGraw-Hill Book Co., San Francisco.

EDUCATION

Ernest A. Jacobsen, Professor

C. E. McClellan, Professor

LeGrande R. Humpherys, Professor

E. N. Reese, Assistant

Russell Humpherys, Assistant

104. **Elementary School Curriculum.** This course is designed to familiarize prospective elementary teachers with the content of the elementary curriculum and the objectives and standards to be realized in the grades. Three credits.

Text-books: Bobbitt, *How to Make a Curriculum*. 1924 edition, \$1.85. Houghton-Mifflin Co., San Francisco. Lincoln School Staff, *Curriculum Making in the Elementary School*. \$1.85. Ginn & Co., San Francisco. Charters, *Curriculum Construction*. 1923 edition, \$2.00. Macmillan Co., San Francisco.

105. **Principles of Teaching in Elementary Schools.** The spontaneous purposeful activity of the child as the basic principles determining teaching

procedure. Subject matter reviewed in the light of the foregoing thesis. Significance to teachers of the fact of individual differences. Consideration of school room equipment, organization and play activity. Three credits.

Text-books: Davis, *Teaching the Elementary Curriculum*, \$1.75. Macmillan Co., San Francisco. Thomas, *Principles and Technique of Teaching*, \$2.00. Houghton-Mifflin Co., San Francisco.

109. **History of American Education.** The evolution of the American Public School System; its Colonial and European origins; development of public control and support. Expansion of activities and scope. Two credits.

Text-books: Cubberly, *Public Education in the United States*, 1919 edition, \$2.40. Houghton-Mifflin Co., San Francisco. Finny, *American Public Schools*. 1927 edition, \$1.60. Macmillan Co., San Francisco.

110. **History of Education.** A brief review of the historical development of educational theories and practices from the Greeks to the present. Special emphasis will be placed upon the relation of education to the social, religious, political, and industrial conditions of the period. Important educational reformers will be studied for the lessons they may teach to modern education. Three credits.

Text-book: Cubberly, *The History of Education*, \$3.50. Houghton-Mifflin Co., San Francisco.

111. **Principles of Education.** This course shall be thought of as an orientation or beginning course required of all who intend to teach. It shall cover such topics as:

- (1) The aims and purposes of Formal education.
- (2) Methods of procedures in Educational thinking.
- (3) The origin and development of the various divisions of Public Education.
- (4) The place of the Teacher in the school program.
- (5) The administration of pupil affairs. Three credits.

Text-book: Burton, *Introduction to Education*, 1934 edition, \$3.00. Century, N. Y.

112. **Supervision of Instruction.** This course is intended to be of assistance to teachers who wish to become superintendents or supervising principals. It deals in a practical way with the aims to be attained by supervision, describes conditions and problems likely to be met, and suggests methods of solving such problems. Three credits.

Text-books: Gist, *Administration of Supervision*. 1934 edition, \$2.00. Scribner's & Sons, N. Y. Barr and Burton, *Supervision of Instruction*, \$2.00. Appleton-Century Co., N. Y.

121. **The Organization and Administration of Education.** (a) the State Law and regulations of the State Board of Education pertaining to public schools; (b) courses of study, including the Utah State course; (c) organization, duties, and activities of the teaching staff and the student body. Three credits.

Text-books: Cowles, *Organization and Administration of Schools in Utah*. 1934 edition, 75¢. Chamberlain, *The Teacher and School Organization*. 1936 edition, \$2.80. Prentice-Hall, San Francisco.

129. **Guidance and Personnel.** A study of the meaning, aims, trends, and present status of the guidance movement in our secondary school system.

An analysis of the various agencies in guidance and personnel work and how to organize them in our secondary school system. Three credits.

Text-books: Koos and Kefauver, *Guidance in Secondary Schools*. 1932 edition, \$2.75. Macmillan Co., San Francisco. Fretwell, *Extra-Curricular Activities in Secondary Schools*. 1931 edition, \$2.75. Houghton-Mifflin Co., San Francisco. Brewer, *Education as Guidance*. 1935 edition, \$2.75. Macmillan Co., San Francisco.

131. **Educational Tests and Measurements.** A course dealing with the history, principles and practices of the testing movement. Analysis of types of tests, their construction and use, with some practice in giving, scoring, and interpretation. Three credits.

Text-books: Ruch, *The Objective or New Type Examination*. 1929 edition, \$2.80. Scott Foresman & Co., San Francisco. Green and Jorgensen, *The Use and Interpretation of Educational Tests*. 1929 edition, \$3.20. Longmans, Green & Co.

ENGLISH

N. Alvin Pedersen, Professor

Fannie M. Vernon, Assistant Professor

10. **English Composition.** Fundamentals in sentence and paragraph structure; drills and tests for accuracy; practice in outlining and organizing material; attention to correct usage; emphasis on expository writing. Five credits.

Text-books: Emery and Kierzek, *English Fundamentals*. 90¢. Thomas, Manchester and Scott, *Composition for College Students*. 1932 edition, \$2.00. Both by Macmillan Co., San Francisco.

33. **Short Story.** A study of the technique of the short story. English, American, and European stories will be analyzed. Encouragement will be given to those who wish to write. Four credits.

Text-book: *Book of the Short Story*, Cross. 1934 edition, \$3.00. American Book Co., San Francisco.

19. **Appreciation of English Literature.** Many persons who are fond of reading do not know the difference between the fine and the ordinary in English writing. The object of this course is to develop taste and a sound critical faculty in judging the author's purpose in literary workmanship. Two credits.

Text-books: Waite & Taylor, *Modern Masterpieces of Short Prose Fiction*, \$1.50. Appleton-Century, San Francisco. Palgrave, *Golden Treasury*, 50¢. A Century of Essays, Every Man's Library, \$1.00. Special Lesson Sheets, 30¢.

50. **Survey of English Literature I.** The literature of Great Britain from the Anglo-Saxon period to the close of the Elizabethan Age. Three credits.

Text-books: John Buchan, *A History of English Literature*, \$3.50. Thomas Nelson & Sons, N. Y. Nielson and Thorndike, *A History of English Literature*, \$1.60. Macmillan Co., San Francisco. Newcomer, Andrews, Scott, *Twelve Centuries of English Poetry and Prose*. Revised edition, \$3.00. Scott Foreman & Co., San Francisco.

51. **Survey of English Literature II.** The literature of Great Britain from the Puritan Age to the beginning of the Age of Romanticism. Three credits. Text-books: Same as for 50.

52. **Survey of English Literature III.** The literature of Great Britain from the Age of Romanticism to the present day. Three credits.

Text-books: Same as for 50 and 51.

82. **American Literature.** From Colonial times to the present. Five credits.

Text-books: Snyder, *A Book of American Literature*, \$3.50. Macmillan Co., San Francisco.

160-161-162. **Recent Novel.** This course offers an opportunity for the study of some of the most significant literature of our time. Among the authors to be read critically are: Meredith, James, Howells, Hardy, DeMorgan, Phillpotts, Bennett, Wells, Galsworthy, Wharton, Conrad, and Hergesheimer. Prerequisites: Freshman composition and English Literature. Those desiring to take this course who do not have these prerequisites may do so only by special permission. Three, six, or nine credits.

Text-books: The novels required in the course. Suggested supplementary reading: *A Century of the English Novel*, Cornelius Weygandt. 1925 edition, \$2.50. Appleton-Century Co., 149 New Montgomery St., San Francisco.

163-164-165. **Modern Drama.** A study of the drama from Ibsen up to the present time with some emphasis on recent plays. Three, six or nine credits.

Text-books: Dickinson, *Chief Contemporary Dramatists*. \$3.50. First Series, Houghton Mifflin Co., San Francisco. The dramas required in the course.

ENTOMOLOGY

W. W. Henderson, Professor
Fred C. Harmston, Assistant

13. **Economic Entomology.** A study of the insects in their relation to man and his products, also the best ways of controlling them. Six credits.

Text-book: Metcalf, Flint, *Destructive and Useful Insects*. 1928 edition, \$7.50. McGraw-Hill Book Co., San Francisco.

GEOLOGY

James Stewart Williams, Professor
Archie Griggs, Assistant

3. **Physical Geology.** A general introduction to the study of physical geology, including an introduction to the rock-forming minerals and rocks, the composition and structure of the earth's crust, and the physical agencies of erosion that operate upon its surface. Volcanism and deformation of the crust including earthquakes and mountain building are also considered, together with the origin of land forms. There is a brief introduction to mineral resources. Prerequisite: Chemistry 1. Five credits.

Longwell, Knopf and Flint, *Text-book of Geology, Part 1 Physical Geology*. 1932 edition, \$3.75. John Wiley & Sons, San Francisco. Agar, Flint and Longwell, *Geology from Original Sources*. 1929 edition, \$3.75. Henry Holt & Co., Chicago.

HISTORY

Joel E. Ricks, Professor
Dello Dayton, Assistant

13. **United States History.** A college course in History of the United States from the discovery of the continent to the war of 1812. Three credits.

Text-books: Becker, *Beginnings of the American People*. 1915 edition, \$2.00. Johnson, *Union and Democracy*. 1915 edition, \$2.00. Both by Houghton Mifflin Co., San Francisco.

14. **United States History.** A continuation of course 13 covering the period from 1812 to the Civil War. Three credits.

Text-books: Johnson, *Union and Democracy*. 1915 edition, \$2.00. Dodd, *Expansion and Conflict*. 1915 edition, \$2.00. Both by Houghton Mifflin Co., San Francisco.

15. **United States History.** A continuation of course 14 covering the period from the Civil War to the present. Three credits.

Text-books: Dodd, *Expansion and Conflict*. 1915 edition, \$2.00. Paxton, *The New Nation*. 1927 edition, \$2.00. Both by Houghton Mifflin Co., San Francisco.

30. **English History.** A college course covering the history of England previous to 1461. Three credits.

Text-book: Cross, *History of England and Greater Britain*. 1930 edition, \$4.75. Macmillan Co., San Francisco.

31. **English History.** A continuation of course 30. 1461 to 1694. Three credits.

Text-book: Same as for course 30.

32. **English History.** Continuation of course 31 from 1694 to the present time. Three credits.

Text-book: Same as for courses 30, 31.

40. **Modern European History, 1500 to 1915.** Political and Social Modern Europe. Traces the great movements, political and industrial, that have given the world its distinctive modern civilization. Interest centers in the situation that developed the French Revolution and the Revolution itself. Three credits.

Text-book: Hayes, *Political and Social History of Modern Europe*, Vol. 1. 1928 edition, \$4.00. Macmillan Co., San Francisco.

50. **History of Civilization.** Deals with the history of mankind in Europe from prehistoric times to the present with particular reference to the economic, social and cultural conditions which have had influence in shaping European civilization and which present a background for recent historical events. Three credits.

Text-book: Shapiro and Morris, *Civilization in Modern Europe*. 1930 edition, \$2.20. Houghton Mifflin Co., San Francisco.

124. **Modern European History, 1815 to 1914.** The reconstruction of Europe after the great upheaval at the beginning of the 19th Century and the development of the control of affairs by the middle classes of the various nations together with the spread of imperialism, receive consideration. Three credits.

Text-book: Hayes, Political and Social History of Modern Europe, Vol. II. 1928 edition, \$4.00. Macmillan Co., San Francisco.

Supplementary reading: Ogg, Economic Development of Modern Europe. \$3.00. Macmillan Co. Hazen, Europe since 1815. 1927 edition, \$3.50. Henry Holt Co., Chicago. The supplementary texts may be rented from the department of Correspondence-study.

128. **Recent European History.** Twentieth century world. The broad historical movements of the twentieth century are developed with emphasis concentrated on the period since the World War. While European developments receive major consideration, attention is given to the Orient and to the Americas, particularly the U. S. Three credits.

Text-book: Langsam, World Since 1914. Third edition, 1936, \$3.50. Macmillan Co., San Francisco.

HORTICULTURE

A. L. Wilson, Professor

Francis M. Coe, Assistant Professor

Note: The student is urged to do the laboratory work in the following courses when in attendance at college and earn one extra credit.

1. **General Horticulture.** This course, which covers in an introductory way the field of Horticulture, may be used to satisfy the orientation course requirement in the School of Agriculture. A study of the opportunities of profitable fruit production in the intermountain regions. Some attention is given to vegetable gardening, plant propagation, landscape gardening, and floriculture. Three credits.

Text-book: Aucther and Knapp, Orchards and Small Fruit Culture.

3. **Landscape Gardening.** Theory and practice of laying out and beautifying home grounds in the city and on the farm. Trees, shrubs, vines, permanent gardening, garden appreciation. This course is designed to meet the needs of women as well as men students and is particularly valuable to teachers. Two credits.

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

Text-book: Thompson, Vegetable Crops, \$5.00.

IRRIGATION AND DRAINAGE PRACTICE

George D. Clyde, Professor

O. W. Israelsen, Professor

Ivan Teuscher, Assistant

CE 141. **Hydraulics.** Laws of liquids in motion and at rest, flow in natural and artificial channels, and elementary principles of water power development, water measurement, and pumping. Prerequisite, calculus. Four credits.

Text-book: Schoder and Dawson, Hydraulics. McGraw-Hill Book Co., N. Y. \$3.50.

Reference books: King and Wisler, *Hydraulics*. Third edition. John Wiley & sons, Inc., San Francisco. King, *Handbook of Hydraulics*. McGraw-Hill Book Co., San Francisco. \$4.00.

AE 12. *Irrigation and Drainage Practice*. Water measurements, effects on soil and plants of time and frequency of irrigation, duty of water, design of farm ditches and preparation for farm drainage. This course may be used as a major or minor in the Department of Agronomy and is especially designed for engineering students. Three credits.

Text-book: Israelson, *Irrigation Principles and Practice*. 1932 edition, \$5.00. John Wiley & Sons, San Francisco.

AE 12A. *Irrigation Principles and Practices*. A study of factors underlying efficient and economic use of water and irrigation. Emphasis is given irrigation methods and their relation to soils and irrigation efficiencies; the plant and irrigation; and irrigation water supply and its physical control. Brief consideration is given social and administrative aspects of irrigation. Major research problems in irrigation, and the irrigation of standard crops are stressed. This course is especially designed for agricultural students. Three credits.

Text-book: Israelson, *Irrigation Principles and Practice*. 1932 edition, \$5.00. John Wiley & Sons, San Francisco.

Reference Books for AE 12 and AE 12A: Etcheverry and Harding. McGraw-Hill Book Co. \$4.00. Fortier, *Use of Water in Irrigation*. McGraw-Hill Book Co., San Francisco. \$3.00.

MATHEMATICS

Vance H. Tingey, Professor
Forrest Jensen, Assistant

34. **College Algebra**. For students who have had but one year of high school Algebra and wish to pursue further some mathematical work. Students presenting more than a unit of high school Algebra will not be given credit for Math 34. Five credits.

Text-book: Brink, *College Algebra*. \$2.25. Appleton-Century Co., N.Y.

35. **College Algebra**. For students who have had more than one year of high school Algebra and for those who have had Math. 34. Required for all higher work in Mathematics, Physics, Chemistry, Bacteriology, and Engineering. Five credits.

Text-book: Same as for 34.

46. **Trigonometry**. Prerequisite or parallel Mathematics 35.

Text-book: Brink, *Plane Trigonometry*. \$2.00. Appleton-Century Co., N. Y.

MECHANICAL DRAWING

Russell R. Poynor, Instructor

CE. 61. **Engineering Drawing**. Use of instruments, lettering, applied geometry, orthographic projection and pictorial representation. Three credits.

Text-book: Giesecke, Mitchell and Spencer. \$3.00. By the same authors, *Technical Drawing Problems*. \$1.40. Both by Macmillan Co., San Francisco.

CE 62. **Engineering Drawing.** Technical sketching, dimensioning, working drawings. Prerequisite CE 61. Two credits.

Text-book: Same as for 61. Problems assigned by the Instructor.

CE 63. **Descriptive Geometry.** Point, line, plane problems, developments intersections, surfaces, mining problems. Prerequisite CE 61. Three credits.

Text-book: Hood, Geometry of Engineering. Problem Sheets.

CE 71. **Map Reading and Topographical Drawing.** Topographical lettering, symbols, enlargements and reduction of maps, models. Prerequisite CE 61. Three credits. Same text as for CE 61.

75. **Architectural Drawing.** Freehand sketching, perspective, shades and shadows, building details, plans and details of typical dwelling house. Prerequisite CE 61. Three credits.

PHYSIOLOGY AND PUBLIC HEALTH

E. G. Carter, Professor

C. L. Anderson, Associate Professor

Thelma Skanchy, Assistant

4. **Anatomy and Physiology.** A study of the structure and functions of the human body. This course is prerequisite for all Upper Division courses in Physiology and Health. Five credits.

Text-books: Williams, Anatomy and Physiology. Fifth edition, \$3.50. W. B. Saunders Co., Phila., Pa. Cannon, Wisdom of the Body. \$3.00. Norton and Co., N. Y.

14. **Health Education.** An informational course dealing with the basic physiological factors in hygiene and health education, and opening up the fields of health promotion and disease prevention. Three credits.

Text-books: Turner, Personal and Community Health. 1935 edition, \$3.00. C. V. Mosby Co., St. Louis. Turner, Principles of Health Education. 1932 edition, \$2.00. D. C. Heath, San Francisco

108. **Public Health and Hygiene.** (May be used for High School Certification.) This course is designed to acquaint the student with a broad conception of the hygiene and preventive medicine. The several approaches to positive health will be discussed and the general field of public health activities will be outlined with emphasis on health in the secondary school. Prerequisite, Physiology 4. Five credits.

Text-book: Rosenau, Preventive Medicine. Sixth edition, \$10.00. Appleton-Century Co., N. Y. Consult with the department regarding a plan for reducing cost of text-book.

POULTRY HUSBANDRY

Byron Alder, Professor

Carl Frischknecht, Assistant Professor

James Udy, Assistant

2. **General Poultry Husbandry.** A study of the characteristics of the more popular breeds of chickens and of the important practical problems associated with breeding, incubation, brooding, housing, feeding, disease con-

trol, and marketing. The outline for each lesson emphasizes a close study of the practical problems associated with commercial and farm production and gives to the student a general idea of the importance of the poultry industry to the nation and to this state. Three credits.

Text-books: Lippincott and Card, Poultry Production. Fifth edition, \$4.00. Barger and Card, Diseases and Parasites of Poultry. 1935 edition, \$3.00. Both by Lea and Febiger Co., Phila., Pa.

PSYCHOLOGY

Arden Frandsen, Professor
Arlene Hadfield, Assistant

3. **Elementary General Psychology** A study of the general principles of human behavior, with application to (a) understanding oneself as a personality, (b) improving methods of work and study, and (c) to understanding and controlling behavior in home, school, business, social and political situations. Three credits.

Text-books: Woodworth, Psychology. 1934 edition, \$2.50. Holt & Co., Chicago. Crawley, Studying Efficiently. 50¢. Prentice-Hall, San Francisco.

102. **Educational Psychology**. A professional course for prospective teachers, intended to increase understanding of personality and to develop greater insight into conditions under which children learn. Three credits.

Text-books: Good, An Introduction to Statistics. 50¢. Ann Arbor Press Publishers, Ann Arbor, Mich. Gates, Psychology for Students of Education, 1935 edition, \$2.25. Macmillan Co., San Francisco.

SOCIOLOGY

Joseph A. Geddes, Professor
Herbert Milligan, Assistant

10. **Rural Sociology**. In this course, a study is made of the problems of rural life as a basis for constructive action in developing and maintaining an efficient and wholesome civilization in the country. Three credits.

Text-book: Vogt, An Introduction to Rural Sociology. 1929 edition, \$2.75. Appleton-Century Co., N. Y.

50. **The Crime Problem**. This course is concerned with the broader aspects of crime as a serious contemporary problem. Such topics as the extent, nature, causes of, theories concerning, techniques for coping with, programs for prevention, etc., furnish the course content. Three credits.

Text-book: Sutherland, Principles of Criminology. 1934 edition, \$3.50. Lippincott & Co., Chicago.

70. **Principles of Sociology**. The foundations of sociology are studied in order that a plan of social progress may be formulated. The problems of social origins, social structures, public opinion, social activities, social organization, and social evolution are carefully considered. Prerequisite for all upper classes. Five credits.

Text-book: Lumley, Principles of Sociology. Second Edition, 1935. \$3.50. McGraw-Hill Book Company, San Francisco.

161. **Modern Social Problems.** A selection of a series of social problems is made. The problems are studied with the two-fold object of ascertaining the present situation and arriving at common sense solutions. Prerequisite, Soc. 70. Three credits.

Text-book: Gillin, Ditmar and Colbert, Social Problems. 1928 edition. \$3.75. Appleton-Century Co., N. Y.

171. **Family Relations.** In this course the relations of the family with outside groups, agencies, and institutions are stressed. Attention is also paid to the inter-relation between the different members of the family. Home life is treated as a changing, developing basic organization which should be in constant reciprocal relation with outside agencies. Three credits.

Text-books: Groves, The American Family. 1934 edition, \$3.00. Groves and Brooks, Reading in the Family. This book may be rented to students for a period of two weeks. Both books are by Lippincott, Chicago.

172. **Poverty and Dependency.** A study is made of the extent of poverty its causes, remedies now in use and others which give promise. Social methods of caring for dependents are examined. Emphasis is placed on programs which look to prevention and to minimization as well as to adequate care. Prerequisite, Soc. 70. Three credits.

Text-book: Gillin, Poverty and Dependency. 1926 edition, \$4.00. Appleton-Century Co., N. Y.

High School Courses

AGRONOMY

a. **Elementary Agronomy.** Practical information on crops and soils for high school students. One-half unit.

Text-books: Harris and Stewart, Principles of Agronomy. 1915 edition, \$2.00. Cunningham and Lancelot, Soils and Plant Life. \$1.75. Both by Macmillan Co., San Francisco.

BUSINESS ADMINISTRATION

a. **Economics of Business.** A study of the various kinds of business activities and the fundamental principles underlying them. Principles of management; analysis of accounting; factory, business and labor efficiency; buying and selling; principles and mediums of advertising, money and credit; trade marks, patents, etc. One-half unit.

Text-book: Brisco, Economics of Business. \$2.25. Macmillan Co., San Francisco.

ECONOMICS AND SOCIOLOGY

a. **Elementary Economics.** A high school course giving a practical knowledge of modern theories and problems of economics, rent, wages, interest and profits, money, wealth and wages. One-half unit.

Text-book: Ely and Wicker, Elementary Principles of Economics. \$1.20. Macmillan Co., San Francisco.

b. **Elementary Sociology.** A high school course in sociology which takes a comprehensive view of the whole field of social organization. A

course to meet the needs of those who desire a better understanding of the factors which underlie society as well as the student who wishes a foundation for further work in economics or sociology. One-half unit.

Text-book: Finney, *Elementary Sociology*. New edition, \$1.50. Sanborn & Co., Chicago.

EDUCATION

a. **Extension Leadership.** Volunteer local 4-H club leaders who attend the sessions of the club leaders' training school which is held at the Utah State Agricultural College under the direction of the Extension Service may receive credit in the Department of Correspondence-Study for work done as local 4-H club leaders, by making proper application. The leader is expected to enroll and conduct a 4-H club project in which he or she receives instruction. At least six members must be enrolled and 75% of the members enrolled must complete the project before the leader can be given credit.

The club must be conducted so to meet requirements of a standard 4-H club. Each leader who applies will be expected to make a report of his club activities to the office of the Club Specialist. Blanks for the report will be supplied from the State Club Office.

Leaders who attend the club school will be expected to train local leaders in the county, in addition to conducting a 4-H club.

High school graduates may receive three hours of college credit for one quarter. Those who are not high school graduates receive one-half unit of high school credit.

ENGLISH

a. **Composition and Classics I.** First year high school English. A study of composition, classics and grammar for high school students. One unit.

Text-books: Hitchcock, *Enlarged Practice Book in English Composition*, \$1.15. D. C. Heath & Co., Chicago. Sandwick and Bacon, *High School Word Book*, 65¢. Henry Holt & Co., N. Y. Reed and Kellog, *Grammar*, 75¢. English Narrative Poems, 50¢. Irving, *The Sketch Book*, 50¢. Shakespeare, *Julius Caesar*, 50¢.

b. **Composition and Classics II.** Second year high school English. A study of classics and composition. Special drill on paragraph writing. One unit.

Text-book: *Correct English*. Ginn & Co., San Francisco, \$1.35. *Literature and Life, Book II, Special edition*, \$2.10. Scott, Foresman & Co., San Francisco.

c. **Composition and Classics III.** Third year high school English. A further study of classics; written composition with emphasis on correct English. One unit.

Text-books: Tanner, *Composition and Rhetoric*, \$1.60. Ginn & Co., San Francisco. *Literature and Life, Book III, Special edition*, \$2.10. Scott Foresman & Co., San Francisco.

GEOLOGY

a. **Physiography.** A high school subject treating the earth as a body in space; surface structure, erosion, aggradation, etc.; the atmosphere and the influences of physiographic conditions on the development of an agricultural region. One-half unit.

Text-book: Tarr and Von Engel, *New Physical Geography*, \$2.40. Macmillan Co., San Francisco.

HISTORY

a. **Ancient History to 376 A. D.** Oriental and Greek History to 146 B. C. Roman History to 376 A. D. One unit.

Text-book: Myers, *Ancient History*. 1916 edition. \$1.95. Ginn & Co., San Francisco.

b. **European History from 1600 to 1914.** One credit.

Text-book: Hayes and Moon, *Modern History*. 1932 edition, \$2.40. Macmillan Co., San Francisco.

c. **English History (955 B. C. to present)** A course dealing with the rise of the English people socially and politically; the development of constitutional government; colonial expansion, industrial development and the rise of the British Empire. One unit.

Text-books: Cheney, *A Short History of England*, \$2.00. Ginn & Co., San Francisco. Cheney, *Industrial and Social History of England*, \$2.60. Macmillan Co., San Francisco.

d. **United States History.** A high school course in United States History from the earliest times to the present. One unit.

Text-book: Elson, *History of the United States*, \$2.80. Macmillan Co., San Francisco.

e. **Industrial History of the United States.** This course gives the student a knowledge of the industrial development of the U. S. It emphasizes the extent and significance of the changes in agriculture, manufacturing and transportation, deals also with the development of the modern city and with the financial problems of our industrial life. One-half unit.

Text-book: Moore, *Industrial History of the American People*. 1923 edition, \$2.00. Macmillan Co., San Francisco.

HORTICULTURE

a. **Fruit Growing in the West.** Elementary principles and practices of propagation, planting, pruning and care of the fruit plants. Essential points in culture of apples, peaches, plums, cherries, grapes, and berries. One-half unit.

c. **Principles of Gardening.** Elements of utility and ornamental gardening. Essentials of market gardening, truck production, home vegetable and flower gardening, landscaping. One-half unit.

MATHEMATICS

a. **Algebra.** A first year course in high school algebra. One unit.

Text-book: Wells and Hart, *Modern High School Algebra*. 1928 edition, \$1.60. D. C. Heath, San Francisco.

b. **Plane Geometry.** A high school course. One unit.

Text-book: Wells and Hart, *A Modern Plane Geometry*. 1927 edition, \$1.40. D. C. Heath & Co., San Francisco.

PHYSIOLOGY AND PUBLIC HEALTH

a. **Elementary Sanitation.** A high school course dealing with bacteria in relation to public health. The nature, cause, and prevention of communicable diseases, the sanitary necessities of the community and the individual are considered together with a careful consideration of the hygiene of the child. One-half unit.

Text-book: Egbert, *Hygiene and Sanitation*, \$4.00.

POLITICAL SCIENCE

b. **Civics.** A high school course dealing with the analysis of the organization and activities of local, state and national government. The rise and development of political parties and a study of the powers and duties of the different departments of government. One-half unit.

Text-book: Asley, *The New Civics*. 1927 edition, \$2.20. Macmillan Co., San Francisco.