

health and disease will be taken up in a general way. The symptoms and treatment of the most common animal diseases will be carefully studied. Examination of animals for unsoundness will be practiced by the members of the class. Animal nutrition will be studied briefly. The composition, palatability and other characteristics of various feeds will be taken up, together with their combination into economical and efficient rations for farm animals. Special attention will be given to dairying and poultry raising.

Literature: Jordan, Feeding of Animals, Macmillan Co.; Mayo, Diseases of Animals, Macmillan Co.; Wing, Milk and Its Products, Macmillan Co. Bulletins and current magazines.

Junior year, second semester, five times a week.

Agriculture 4. Agricultural Chemistry. This course is based upon previous work in chemistry and consists of the practical application of chemistry to the various phases of agricultural work. The composition of plant and animal bodies; the reactions in plant and animal life processes; the composition of feeds and their relation to the needs of the animal body; the chemistry of soils, of fertilizers and of alkalies; and the chemistry of dairying are some of the subjects taken up.

Literature: Snyder, Chemistry of Plant and Animal Life, Orange Judd Co.; Henry, Feeds and Feeding, published by author, Madison, Wisconsin. Bulletins from U. S. and State.

Junior year, first semester, five times a week.

Agriculture 5. Horticulture. Two lines of work are taken up in this course, vegetable growing and the study of the production of fruits. The truck crops best adapted to Arizona climates are studied carefully in their relation to school gardening. Fruits adapted to this climate are given special attention, and actual practice is given in grafting, budding, setting young trees, pruning and spraying.

Literature: Wickson, California Fruits and How to Grow Them, Pacific Rural Press, San Francisco; and California Vegetables, by the same author. Bulletins and current magazines.