ture. The work will be largely laboratory practice in handling orchard equipment, pruning, spraying, and propagation. Special problems of management and marketing will be discussed in order that the student may become fully acquainted with the details of operation of a commercial plantation.

AGRICULTURAL ENGINEERING
ASSISTANT PROFESSOR C. A. OCOCK; ASSISTANTS F. M. WHITE, V. E. MORRIS, AND T. CLAVADATSCHER

A. Farm Buildings and Machinery. These lectures include discussions of the designing of machine sheds, piggeries, small poultry houses, silos, ventilating systems, etc. The instruction in farm machinery includes lectures on the use of ordinary farm implements, gas engines, plows, harrows, cultivators, planters, grain binders, etc.

B. Building and Farm Machinery Practice. Laboratory work in designing and lettering plans of barns, silos, machine sheds, piggeries and poultry houses. Farm machinery practice includes work with gas engines, plows, harrows, grain binders, cultivators, etc.

C. Advanced Farm Engineering. This is an elective course for second year students which may be taken with courses in shop work and stock judging. It embraces the following subjects continuing the work begun in the first year in planning corn cribs, granaries, silos, barns and houses with the preparation of bills of materials and cost of construction. The practice with farm machinery is continued on the subjects given the previous year.

The gasoline engine is so generally used that students in Short Course are given practical training with many types and designs.