

laboratory, provides students with practical and theoretical experiences in modern farm power units and tillage and harvest machinery. It includes facilities for hydraulic power, rural electrification, maintenance, development, and fabrication of agricultural machinery, structures, and food processing equipment.

### COURSES

Note: Active immunization against tetanus (available through the Student Health Service) is a prerequisite for registration in any laboratory course in agriculture and for any student employment on the College Farm.

#### AGRICULTURE (Agri)

##### 10. Dimensions in Agriculture (1)

Survey of current social and economic developments and employment opportunities in modern agriculture and related agribusiness areas. Individual career planning.

##### 27. Agribusiness Mathematics (3)

Not open to students with credit in B A 21 or Q M 21A-B or Math 29, or equivalent. Fundamental operations, percentage and interest, bank account reconciliation, equations, ratio and proportion, averages, areas and volumes, square root, measurement systems; applications to milk mixtures, fields, rations, tanks, silos, soils, lumber, concrete, personal buying and loans.

##### 80. Undergraduate Research (1-4; max total 4)

Open to freshmen and sophomores with permission of instructor. Exploratory work on a suitable agricultural problem in agricultural education, agricultural mechanics, dairy industry, enology, or food science.

##### 160T. Topics in Agriculture (1-4; max total 6 per discipline if no topic repeated)

Prerequisite: junior standing, permission of instructor. Agricultural education, mechanized agriculture, food science, dairy industry, enology.

##### 161. International Agriculture (3)

Prerequisite: junior or senior standing or permission of instructor. Economic and technological aspects of agricultural production and distribution in developing countries.

##### 170. Seminar in Foreign Agriculture (3)

Prerequisite: Ag Ec 31, Agri 161 and permission of instructor. Written and oral presentation of researched topics on recent developments in foreign agriculture.

##### 180. Undergraduate Research (1-4; max total 4)

Open to juniors or seniors with permission of instructor. Exploratory work on a suitable agricultural problem in agricultural education, agricultural mechanics, dairy industry, enology, or food science.

##### 190. Independent Study (1-3; max see reference)

See *General Information*—Independent Study.

#### AGRICULTURAL EDUCATION (Ag Ed)

##### 135. Introduction to Agricultural Education (3)

Survey of agricultural education; vocational surveys; occupational analysis; relationship of agriculture to occupational opportunities; qualifications for teaching agriculture. Includes field trips to high school vocational agriculture departments.

##### 186. Methods of Teaching Vocational Agriculture (3) (Former Ag 186)

Prerequisite: E Ed 105; S Ed 150 or permission of instructor. Philosophy and teaching techniques in general agriculture; organization of teaching materials; professional standards for teachers.

##### 187. Vocational Education (2)

Prerequisite: Ag Ed 186. Philosophy and organization of vocational education; educational principles for agriculture.