

**Programs of Study:** The Department of Agricultural Industry and Education provides competent advisers for students pursuing career objectives in, *but not limited to*, the following areas:

<i>Career Objective</i>	<i>Suggested Major</i>
Farm equipment sales and service	Agricultural business
Agricultural engineering	Agricultural science
Dairy industry technology	Agricultural science
Teaching: vocational agriculture, junior high school, community college, college or university	Agricultural education
Food technology, food processing	Agricultural science
Enology, wine technology	Agricultural science
Wine chemistry, food chemistry	Agricultural science
Food plant management	Agricultural business
Agricultural sales: food products, farm equipment	Agricultural business
General farming or ranching	Agricultural education or agricultural science
Food and dairy sanitation	Agricultural science
Agricultural research: food products, agricultural by-products	Agricultural science

**Laboratory Units:** Theoretical instruction in dairy industry, enology, and mechanized agriculture is enhanced through practical application at the various laboratory units.

*Dairy Processing Laboratory:* A pilot plant with cold storage and dairy processing facilities affords students an opportunity to learn practical and management skills involved in making ice cream, cheese, butter, and other dairy by-products.

*Enology Laboratory:* The pilot winery affords the student an opportunity to learn practical skills involved in winemaking, bottling, and storage of wines and is also used as a laboratory for certain phases of the food science program.

*Agricultural Mechanization Laboratory:* This laboratory, complimented by the entire farm 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 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.