AGRICULTURE TRANSFER [AG]

AG 121--4 hours--Introductory Animal Science [3-2]  
(IAI Major Course No. AG 902, L1 902L)  
The application of the sciences of genetics, physiology and nutrition to the improvement of the animal industries and an introduction to management and production practices. Includes animal breeds, breeding and selection; anatomy physiology, and nutrition and growth; environment, health and sanitation; products and marketing; production technology and economics; animal behavior; and current issues in animal science.

AG 122--4 hours--Introductory Agriculture Economics [4-0]  
(IAI Major Course No. AG 901)  
The application of the principles of economics to agricultural problems and the role of agriculture in the US and world economies. Includes production principles: production costs, supply and revenue; profit maximization; consumption and demand; price elasticity; market price determination; and competitive versus noncompetitive market models. Examination of the world food situation: including population growth, world food production trends, trade in agricultural products and agriculture’s role in economic growth; agricultural characteristics and inputs (natural, human and capital); the marketing of agricultural products (functional and institutional commodity approaches to marketing, marketing costs and the operation of the futures market); and agricultural problems and policies (program goals, price and income, and resource use).

AG 123--4 hours--Intro to Agricultural Mechanization [3-2]  
(IAI Major Course No. AG 906)  
An introduction to agricultural power and machinery (engines, power transmission including hydraulics, tillage machinery, calibrations and harvest equipment), agricultural electrification and applications (circuits, motors, controls, and other materials handling and processing), agricultural structures (sketches and drawings, loads, construction materials, and layout and design), and soil and water conservation (surveying, mapping, drainage, and conservation structures).

AG 141--3 hours--Introduction to Agriculture Education [3-0]  
IAI Major Code: AG911  
An introduction to the philosophy of education, in general, and vocational education, specifically; the history of and current issues in agriculture education; the nature of the educative process; the characteristics, duties, and responsibilities of successful teachers; the components of an agriculture program; the role of professional organizations in agriculture education; state teacher certification requirements; and student differences and special needs. Includes directed observation of agriculture teachers in school classrooms.

AG 160--5 hours--Agriculture Internship [0-25]  
Provides work experience in which the student is working in a position focused on one or more of the following areas: meat production, crop production, agricultural economics, agribusiness, agriculture mechanization, farm animal veterinary medicine. PRE-REQUISITE: Instructor approval.

AG 221--4 hours--Introductory Crop Science [3-2]  
(IAI Major Course No. AG 903)  
The basic principles of plant growth, including human and environmental influences and theoretical and practical application of agronomic principles to crop production. Includes the historical and economic importance of crop plants for food, feed and fiber; origin, classification, and geographical distribution of field crops; environmental factors and agronomic problems; crop plant breeding, growth, development, and physiology; cropping systems and practices; seedbed preparation, tillage, and crop establishment; pests and controls; and harvesting, storing and marketing practices.
AG 222--4 hours--Introduction to Soil Science [3-2]
(IAI Major Course No. AG 904)
An introduction to the chemical, physical and biological properties of soils; the origin, classification, and distribution of soils and their influence on people and food production; the management and conservation of soils; and the environmental impact of soil use.