AGRICULTURAL SCIENCES (AGRI)

AGRI 5064. Agricultural Internship. 1-6 Hours.
A directed study utilizing industry to develop an understanding of agricultural production and management principles.

AGRI 5300. Adv Fusing Metals&Non-Metals. 3 Hours.
Student explore principles and techniques of bonding and fusing metallic materials by the electric and oxyacetylene processes. Students study fluxes, chemicals, and oxidants used in joining metal as well as the joining of non-metallic materials by mechanical and chemical means.

AGRI 5310. Mchnzd Harvest & Hand Ag Prods. 3 Hours.
Students study the fundamentals of selection, service, and operation of agricultural harvesting machines as well as the analysis and development of mechanical systems to feed and care for livestock. In addition, storage and handling facilities for agricultural products are discussed.

AGRI 5330. Advanced Rural Utilities. 3 Hours.
Student study the selection and use of electrical equipment as related to efficiency and economy in agricultural production, processing and storage of feeds, forage crops and grain in connection with livestock enterprises.

AGRI 5340. Adv An Growth & Performance. 3 Hours.
This course is an advanced study of physiological and endocrine factors affecting growth and performance of domestic animals. The course may include the study of meat animal growth and developmental processes as they affect body and carcass composition, carcass quality and retail value. **Prerequisite:** Graduate standing.

AGRI 5341. Contemporary Animal Ag Issues. 3 Hours.
Students investigate contemporary issues in animal agriculture and the food/meat industry. Primarily using in-depth discussion and debates, students analyze issues from the standpoint of producers, consumers, processors, and societal forces. This course allows students to explore differing viewpoints on an issue and prepare them to encounter these issues in their professional career.

AGRI 5350. Adv Principles Livestock Mgt. 3 Hours.
Student engage in a survey of current knowledge and concepts of beef production with emphasis on the stocker/feedlot segment. Includes feeding, management, marketing and disease control of stocker and feedlot cattle.

AGRI 5360. Contemporary Agr Bus Issues. 3 Hours.
Students analyze and discus current issues in agricultural business with appropriate principles and theories. Issues may include marketing, management, finance, policy, international, legal and ethical topics. Student participation is expected via reports throughout the semester or term reports.

AGRI 5361. Agricultural Policy. 3 Hours.
Students engage in an advanced analysis of government policies and programs important to agriculture. Topics may include: the policy making process and leaders, interest groups, organization and functions of federal and state agencies, policies relevant to production agriculture and natural resources, rural development, consumer and food safety, international marketing and food distribution.

AGRI 5362. Principles of Crop Protection. 3 Hours.
Students study the diagnosis, epidemiology, and control of plant pests. Causative and limiting factors are stressed. Designed for prospective or practicing teachers and technicians in the agro-chemical industry or in federal or state plant pest control agencies.

AGRI 5369. Spc Topics in Adv Agriculture. 3 Hours.
Students examine advanced special topics/issues and (or) subject matter in the field of Agricultural Science. The sub-divisional fields offered are: Agriculture, Animal Science, Agricultural Business, Horticulture and Crop Science, and Agricultural Mechanization. This course may be repeated as topics and subject matter change.

AGRI 5370. Food and Fiber Crops. 3 Hours.
Students study traditional plant breeding techniques and an overview of contemporary crop improvement methods. The physiology, adaptation, classification, taxonomy, and utilization of major crop species used for production of food and fiber are covered. Genetic and environmental influences on crop quality are discussed.

AGRI 5379. Advanced Equine Nutrition. 3 Hours.
This course is an advanced review of the equine digestive system regarding anatomy, physiology, digestive processes, nutrient requirements, feedstuffs, management, and health care.

AGRI 5386. Capital Mgt in Agr Business. 3 Hours.
Students are provided an in-depth understanding of capital marketing, capital budgeting, financial planning, and appraisal principles important in the field of agribusiness.

AGRI 5394. Applied Horticultural Science. 3 Hours.
Students explore the identification, selection, and use of plants to improve the human environment as well as evaluate problems and create solutions to environments where plants and human interact. In addition, students focus on the soil-water-plant relationship of ornamental plants.

AGRI 5398. Economics Of Agri Production. 3 Hours.
Students explore agricultural production principles applied to the use of resources; cost analyses of production enterprises; linear programming of enterprises for maximizing returns; elements of depreciation schedules; evaluation for income tax purposes.

AGRI 6099. Thesis. 1-3 Hours.
In addition to the preliminary study of the techniques of research, this course involves completion of a bibliography, organization of material, selection of a suitable problem, a digest of related literature, selection of appropriate procedures, formulation of a plan of investigating and reporting, collection and organization of data, and the writing of the thesis. Variable Credit (3 hrs first semester; 1 hour subsequent semesters). Grade is either Credit or No Credit.

AGRI 6140. Graduate Seminar. 1 Hour.
This course is designed to provide students a forum for presentation of their graduate project and to provide an opportunity for faculty to present seminars relative to contemporary issues in agriculture. The project is an agreement between student and his/her committee. Course cannot be repeated. Grade is either Credit or No Credit.
Prerequisite: AGRI 5375 or STAT 5360.

AGRI 6350. Tchnqs & Inter of Ag Research. 3 Hours.
A course designed to develop the competencies needed to interpret and utilize agricultural research. Topics will include: the philosophy of the scientific method, formats for agricultural research data, interpretation of data, and application of information to specific situations.
Prerequisite: AGRI 5375 or STAT 5360.

AGRI 6398. Thesis. 3 Hours.
In addition to the preliminary study of the techniques of research, these courses involve completion of a bibliography, organization of material, selection of a suitable problem, a digest of related literature, selection of appropriate procedures, formulation of a plan of investigating and reporting, collection and organization of data, and the writing of the thesis. Grade is either Credit or No Credit.