AGRICULTURE (AGRI)

AGRI 160 Introduction to Food Science (3 Credit Hours)
Type of credit: Baccalaureate/Transfer
Lecture hours: 3
The science of food is studied in this course through discussion of food production and processing. Topics of study include careers in food science, the chemical components of food, safe food production, food quality inspection and grading, food preservation, laws and regulations related to food labeling, and food purchasing trends of consumers. Production and processing of milk, meat, poultry, fish, grains, fruits and vegetables, oils, candy, and beverages are studied through the course.

AGRI 182 Introductory Ag Mechanics (4 Credit Hours)
Type of credit: Baccalaureate/Transfer
Lecture hours: 3
Lab hours: 2
Includes problems, discussions and laboratory exercises examining present and potential engineering applications in agriculture. Emphasis is on farm power and machinery, soil and water control, farm electrification and farm structures. IAI code: AG 906

AGRI 184 Intro to Ag Economics (3 Credit Hours)
Type of credit: Baccalaureate/Transfer
Lecture hours: 3
This course introduces students to economic principles as they apply to food, fiber, and natural resource production and consumption. The following microeconomic concepts are analyzed: supply and demand, production costs, product pricing and revenue, income and profit maximization, types of elasticity, and market structures. IAI Code: AG901

AGRI 186 Introduction Animal Science (4 Credit Hours)
Type of credit: Baccalaureate/Transfer
Lecture hours: 3
Lab hours: 2
Surveys the fundamentals of nutrition and management, ruminant and non-ruminant animal digestion, genetics of breeding and improvement, marketing livestock and the handling of livestock products and the physiology of animals. IAI Code: AG 902

AGRI 187 Intro to Precision Agriculture (3 Credit Hours)
Type of credit: Baccalaureate/Transfer
Lecture hours: 2
Lab hours: 2
This course will provide an overview of precision agriculture in a production agriculture setting, with the objective of using precision agriculture technology to improve management decisions. Topics will include Global Positioning Systems (GPS), Geographic Information Systems (GIS), yield monitors, remote sensing, direct sensing, GIS software, and variable rate application.

AGRI 188 Introduction to Hort Science (3 Credit Hours)
Type of credit: Baccalaureate/Transfer
Lecture hours: 2
Lab hours: 2
This course introduces students to the basics of growing fruits, vegetables, herbs, and cannabis as well as flowers, landscape, turf, and greenhouse plants. Identification, classification, selection, propagation, growth, design and care of horticultural plants will be practiced. Students will also explore technology and careers within the horticulture industry. IAI Code: AG905

AGRI 190 Intro to Agriculture Education (3 Credit Hours)
Type of credit: Baccalaureate/Transfer
Lecture hours: 3
This course is an introduction to agricultural education in school and non-school settings. Students learn how to create and deliver effective instructional plans as well as gain knowledge of the components of a quality agricultural education program. IAI Code: AG 911

AGRI 192 Computer Applications in Ag (3 Credit Hours)
Type of credit: Baccalaureate/Transfer
Lecture hours: 3
This course is designed for all students, but specifically for agriculture students needing basic skills in computers and computer applications. Students will be able to create and manipulate agribusiness files through use of word processors, spreadsheets, databases, presentation, and graphic design software. Students will discover software applications and technological tools utilized within agriculture and get the opportunity to explore web design, video creation, and social media marketing as it applies to the agriculture industry. IAI Code: AG 913

AGRI 284 Soil Science (4 Credit Hours)
Type of credit: Baccalaureate/Transfer
Lecture hours: 3
Lab hours: 2
Studies the origin, formation, classification, and conservation of soil. Specific biological, chemical and physical properties of soils are investigated. This is a beginning course in soils and is basis for further soil, crop, and environmental science courses. IAI Code: AG 904

AGRI 286 Crop Science (4 Credit Hours)
Type of credit: Baccalaureate/Transfer
Lecture hours: 3
Lab hours: 2
Classification, growth, reproduction, and utilization of crops are studied in this course. Students learn to identify crops, weeds, and insect pests. Environmental, physiological, and nutritional factors affecting plant growth are explored. Plant-soil relationships, crop scouting procedures, and current crop research are introduced. IAI Code: AG 903

AGRI 290 Study Abroad: Food/Environment (3 Credit Hours)
Type of credit: Baccalaureate/Transfer
Lecture hours: 3
The course is designed as a field experience that will take place abroad. The course will broaden student awareness of the governmental, cultural, geographical, historical, economic, and agricultural aspects in the country of travel. This will be done through cooperating colleges/universities and scheduled educational activities and tours. This course will primarily focus on the agricultural and environmental similarities and differences between our region and the country of travel. Cultural aspects will also be explored.