

COURSES

AGRICULTURE (AGR)

- AGR 110 Agricultural Economics 3.0 UNITS**
 This course provides an introduction to basic economic principles in agriculture. Topics include supply and demand, the role of agriculture in the economy, economic systems, and micro- and macroeconomics. Upon completion, students should be able to explain economic systems, interpret supply and demand curves, and complete cost and revenue production schedules.
- AGR 112 Agri Records & Accounting 3.0 UNITS**
 This course covers principles involved in establishing, maintaining, and analyzing livestock and farm records. Topics include computerized livestock and farm records, net worth statements, and income and cash flow statements. Upon completion, students should be able to develop a production record keeping system, calculate performance efficiencies, and establish production goals.
- AGR 121 Biological Pest Management 3.0 UNITS**
 This course will emphasize the building and maintaining of healthy soil, plant and insect biological cycles as the key to pest and disease management. Course content includes study of major pests and diseases, including structure, life cycle, and favored hosts; and biological and least toxic methods of chemical control. Upon completion, students will be able to identify and recommend methods of prevention and control of selected insects and diseases.
- AGR 130 Alternative Ag Production 3.0 UNITS**
 This course covers the latest nontraditional enterprises in agriculture. Topics include animal production, aquaculture, and plant production. Upon completion, students should be able to identify selected enterprises and describe basic production practices.
- AGR 139 Introduction to Sustainable Agriculture 3.0 UNITS**
 This course will provide students with a clear perspective on the principles, history and practices of sustainable agriculture in our local and global communities. Students will be introduced to the economic, environmental and social impacts of agriculture. Upon completion, students will be able to identify the principles of sustainable agriculture as they relate to basic production practices.
- AGR 140 Agricultural Chemicals 3.0 UNITS**
 This course covers all aspects of agricultural chemicals. Topics include safety, environmental effects, federal and state laws, pesticide classification, sprayer calibration, and licensing. Upon completion, students should be able to calibrate a sprayer, give proper pesticide recommendations (using integrated pest management), and demonstrate safe handling of pesticides.
- AGR 160 Plant Science 3.0 UNITS**
 This course introduces the basic principles of botany that pertain to agricultural production. Emphasis is placed on the anatomy and physiology of flowering plants. Upon completion, students should be able to identify and explain plant systems.
- AGR 170 Soil Science 3.0 UNITS**
 This course covers the basic principles of soil management and fertilization. Topics include liming, fertilization, soil management, biological properties of soil (including beneficial microorganisms), sustainable land care practices and the impact on soils, and plant nutrients. Upon completion, students should be able to analyze, evaluate, and properly amend soils/media according to sustainable practices.
- AGR 212 Farm Business Management 3.0 UNITS**
 This course introduces budgeting, farm analysis, production costs, business organizations, and general management principles. Topics include enterprise budgets, partial budgets, whole farm budgets, income analysis, and business organizations. Upon completion, students should be able to prepare and analyze a farm budget.
- AGR 213 Agricultural Law & Finance 3.0 UNITS**
 This course covers the basic laws and financial aspects affecting agriculture. Topics include environmental laws, labor laws, contractual business operations, assets, liabilities, net worth, and funding sources. Upon completion, students should be able to complete loan application procedures and explain basic laws affecting the agricultural industry.
- AGR 214 Agricultural Marketing 3.0 UNITS**
 This course covers basic marketing principles for agricultural products. Topics include buying, selling, processing, standardizing, grading, storing, and marketing of agricultural commodities. Upon completion, students should be able to construct a marketing plan for an agricultural product.