

AGRICULTURAL OPERATIONS MANAGEMENT

AOM 5334C Agricultural Chemical Application Technology 3 Credits

Grading Scheme: Letter Grade

Equipment and methods used to apply pesticides in agriculture. Emphasis on techniques to avoid misapplication and pesticide drift.

AOM 5431 GIS and Remote Sensing in Agriculture and Natural Resources 3 Credits

Grading Scheme: Letter Grade

Principles and applications of geographic information systems (GIS) and global positioning system (GPS) technologies supporting land use/cover assessment, agricultural production, and natural resource conservation.

Prerequisite: working knowledge of computer or consent of instructor.

AOM 5435 Advanced Precision Agriculture 3 Credits

Grading Scheme: Letter Grade

Principles and applications of technologies supporting precision farming and natural resource data management planning. Global positioning systems (GPS), geographic information systems (GIS), variable rate technologies (VRT), data layering of independent variables, automated guidance, Internet information access, computer software management.

AOM 6061 Agri-food Systems Innovation 3 Credits

Grading Scheme: Letter Grade

Students explore the role of innovation in food systems from a reverse chain perspective. Students will gain knowledge of the food system framework from a multi-level (i.e., individual, organizational, etc.) perspective, identify current, innovative business and technological practices, as well as present and think critically about future trends in food.

AOM 6735 Irrigation Principles and Management 3 Credits

Grading Scheme: Letter Grade

Designed to teach graduate students about irrigation and gain skills to evaluate an irrigation system, identify parts of a system, and develop an irrigation schedule based on system characteristics. This course is designed for nonengineers although quantitative ability will be required for calculations and analysis. Prerequisites Students must be proficient in Microsoft Excel and Word. Students should be able to use equation functions and graphing functions in Excel. It is recommended that students have basic understanding of hydrology, unit conversions, and algebra.

AOM 6736 Principles and Issues in Environmental Hydrology 3 Credits

Grading Scheme: Letter Grade

Principles and issues in environmental hydrology.

AOM 6905 Individual Work in Agricultural Operations Management 1-6 Credits, Max 6 Credits

Grading Scheme: Letter Grade

Special problems.

AOM 6932 Special Topics in Agricultural Operations Management 1-6 Credits, Max 6 Credits

Grading Scheme: Letter Grade

Lectures, laboratory, and /or special projects.