AGRICULTURAL OPERATIONS MANAGEMENT

Course Search
Not all courses are offered every semester. Refer to the schedule of courses for each term’s specific offerings.

More Info

Courses

AEB 4085 Agricultural Risk Management and the Law 3 Credits
Develops an understanding of the basic concepts of common and statutory law. Identifies and addresses current legal issues of importance at the personal and professional levels. Develops an understanding of risk and the solutions for managing risk and relates the concepts of risk management and law in limiting exposure to legal liability.

ALS 3133 Agricultural and Environmental Quality 3 Credits
Analysis of effects of agriculture on environmental quality; emphasis on agricultural wastes and practices; potential for using agricultural systems for disposal of other wastes; effects of pollution on the agricultural environment. (P)

AOM 2520 Global Sustainable Energy: Past, Present and Future 3 Credits
Students will explore the global history of energy sources. New energy sources are investigated and international solutions to future needs are analyzed.

AOM 3073 Safety in Agriculture 3 Credits
Safety concepts, principles, practices, rules and regulations as they relate to agriculture. Developing and conducting safety programs and conducting safety inspections and accident investigations are other aspects of the course.

AOM 3220 Agricultural Construction and Maintenance 3 Credits
Selection and use of materials and tools used in planning, constructing and maintaining buildings. Students will participate in class lectures and hands-on laboratory activities to build full-scale projects involving framing, plumbing, electrical, windows, etc. Building codes and building science are combined to provide an introduction to the changing world of construction.

AOM 3333 Pesticide Application Techniques 3 Credits
Equipment and methods used to apply pesticides in agriculture. Emphasizes techniques used to avoid misapplication, a common cause of pesticide failures.

AOM 3734 Irrigation Principles and Practices in Florida 3 Credits
Irrigation practice related to Florida agriculture. The course deals with irrigation system characteristics, management, maintenance and economics.

AOM 4062 Principles of Food Engineering 4 Credits
The functional requirements and principles of operation of systems for handling and processing food and agricultural products.

AOM 4314C Power and Machinery Management 3 Credits
Functional requirements, operating principles, performance, safety and economic application of agricultural power units and field machines for citrus, vegetable and field crop production.

AOM 4434 Precision Agriculture 3 Credits
Principles and applications of technologies supporting precision farming and planning for natural resource data management. Global positioning systems (GPS), geographic information systems (GIS), variable rate technologies (VRT), data layering of independent variables, automated guidance, internet, information access and computer software for management.

AOM 4444C Electrical Power and Instrumentation for Agricultural Operations Management 3 Credits
Fundamental concepts of electricity, power, instrumentation, computer control operations and selected transducers. Foundation to aid in management of agricultural processing operations.

AOM 4455 Agricultural Operations and Systems 3 Credits
Quantitative and managerial techniques for management and planning of technical resources in agriculture. Applications of queuing theory, project scheduling, optimization and expert decision systems.

AOM 4521 Introduction to Biofuels 3 Credits
An overview of biofuel production related to technologies and feedstocks, economics of producing biofuels and impact on the environment and the local economy. Dealing specifically with liquid and gaseous biofuels and bioenergy produced from renewable resources, it provides a summary of the past, present and future production technologies and applications.

AOM 4642 Environmental Systems for Agricultural Structures 3 Credits
Effects of the environment on plant and animal production, processing and quality of stored produce. Selection of building materials and sizing of components of environmental systems in agricultural structures to enhance more efficient agricultural production, processing and storage.

AOM 4643 Environmental Hydrology: Principles and Issues 3 Credits
This is a basic course in environmental hydrology intended for agricultural and natural resource managers. The first half of the course covers scientific principles of the hydrologic cycle while the second half investigates case studies of current water quality and water management issues.

AOM 4900 Supervised Extension Experience in Agricultural Operations Management 3 Credits
Firsthand, authentic extension experiences in agricultural operations management under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)
AOM 4905 Special Problems in Agricultural Operations Management
1-4 Credits
Selected problems or projects in the student's major field of mechanized study.
Prereq: permission of department chair or advisor

AOM 4911 Supervised Research in Agricultural Education and Communication
3 Credits
Firsthand, authentic research in Agricultural Education and Communication under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

AOM 4915 Honors Thesis Research in Agricultural Operations Management
3 Credits
Independent research in agricultural operations management leading to an honors thesis. Student will be mentored by a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)
Prereq: junior standing, upper division GPA of 3.75 or higher and completed honors thesis proposal on file

AOM 4932 Special Topics in Agricultural Operations Management
1-4 Credits
Variable topics provide content for the study of mechanized agriculture topics not offered in other courses.
Prereq: instructor permission

AOM 4933 Professional Practices in Agricultural Operations Management
1 Credit
Professionalism and interfacing of technical skills. Topics include ethics, continuing education, placement skills and professional development in agricultural operations management.
Prereq: junior standing in agricultural operations management

AOM 4941 Full Time Prac Work
1-4 Credits
Full Time Prac Work.