

Degree Requirements for Department of Agriculture and Natural Resources

The Department of Agriculture and Natural Resources offers a Master of Science in Agricultural Operations Management (M.S.A.O.M.). The M.S.A.O.M. degree provides an in-depth academic and experiential foundation for applying operations management principles to agricultural systems. The M.S.A.O.M. curriculum is based on two primary knowledge bases: agricultural systems science (which includes management science and agricultural engineering technology) and agribusiness/business. The breadth of the M.S.A.O.M. degree is enhanced with courses in international agriculture, agricultural science, and statistics/advanced mathematics. This body of knowledge and experiential development provides an outstanding platform for continued professional development and growth.

The manager of today's agriculture and natural resources enterprises must oversee and integrate science, technology and management science principles in the following activities:

- Personnel management
- Project scheduling
- Organizational planning
- Environmental planning and compliance
- Safety
- Product sales and support
- Data information and analysis
- Management of biological and chemical technologies
- Finance
- Internal and international communication

Special emphasis is placed on integrating technologies and science into the management of the agriculture and natural resource agencies. Courses in the M.S.A.O.M. program are offered in convenience formats (primarily Web-based); thus the degree can be earned by place-bound professionals.

Students must satisfy the university general requirements and the following requirements specific to the degree.

Master of Science in Agricultural Operations Management (1180)

Resume of Degree Requirements

I. Agricultural Systems Science Group

Agricultural Engineering Technology 650
 Agricultural Engineering Technology 660
 Agricultural Engineering Technology 782
 Agricultural Engineering Technology 710
 Agricultural Engineering Technology 781
 Agricultural Engineering Technology 784
 Agricultural Engineering Technology 785

13 hours

Agricultural Structures (3) OR
 Waste Management Technology (3) OR
 Advanced Precision Technologies for Agriculture
 and Natural Resources Management (3)
 Safety and Ergonomic Sciences in Agriculture (3)
 Agricultural Operations Management Seminar (1)
 Agricultural Systems Science (3)
 Decision and Information Systems in Agriculture (3)

II. Agribusiness/Business Group**9 hours***Choose from:*

Agricultural Economics 665

Agricultural Finance (3)

Agricultural Economics 671

Agricultural Management (3)

Agricultural Economics 735

Seminar in International Agricultural Trade (3)

Information Systems 761*

Information Systems (3)

Management 730*

Operations Management (3)

Management 740*

Management of Innovation and Technology (3)

Any approved agribusiness, marketing, or management course at 700 level or above.

*Consult the graduate coordinator of the College of Business and Public Affairs regarding applicable prerequisites.

III. Internship or Research Group**5 hours***Choose from:*

Agricultural Economics 701

Research or Internship in Agricultural Economics (5)

Agricultural Engineering Technology 701

Research or Internship in Agricultural
Engineering Technology (5)

Agriculture 720

Research or Internship in Agriculture (5)

IV. Statistics/Advanced Mathematics Group**3 hours**

Agriculture 741

Statistical Methods in Agriculture (3)

Or approved graduate level statistics or mathematics course.

V. International Agriculture Group**3 hours***Choose from:*

Agricultural Economics 735

Seminar in International Agricultural Trade (3)

Agriculture 732

International Travel Study (3)

Any approved graduate level (700 level) course with international studies content (3)

VI. Agricultural and Science Electives Group **3 hours**

Any approved 600 level or higher course in agriculture, natural resources, the sciences, or other course approved by the M.S.A.O.M. Graduate Supervisory Committee.

MINIMUM HOURS REQUIRED FOR DEGREE:**36**

A minimum of 70 percent of the degree requirements must be taken at the 700 level. The student will write a narrative, comprehensive exam covering major areas studied. Questions will be submitted by all members of student's graduate committee. A final oral examination may be required by graduate committee.