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**

<table>
<thead>
<tr>
<th>I. Agricultural Systems Science Group</th>
<th>13 hours</th>
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</thead>
<tbody>
<tr>
<td>Agricultural Engineering Technology 650</td>
<td>Agricultural Structures (3) OR</td>
</tr>
<tr>
<td>Agricultural Engineering Technology 660</td>
<td>Waste Management Technology (3) OR</td>
</tr>
<tr>
<td>Agricultural Engineering Technology 782</td>
<td>Advanced Precision Technologies for Agriculture</td>
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<tr>
<td>Agricultural Engineering Technology 710</td>
<td>and Natural Resources Management (3)</td>
</tr>
<tr>
<td>Agricultural Engineering Technology 781</td>
<td>Safety and Ergonomic Sciences in Agriculture (3)</td>
</tr>
<tr>
<td>Agricultural Engineering Technology 784</td>
<td>Agricultural Operations Management Seminar (1)</td>
</tr>
<tr>
<td>Agricultural Engineering Technology 785</td>
<td>Agricultural Systems Science (3)</td>
</tr>
<tr>
<td></td>
<td>Decision and Information Systems in Agriculture (3)</td>
</tr>
</tbody>
</table>
II. Agribusiness/Business Group  

Choose from:  
- Agricultural Economics 665  
- Agricultural Economics 671  
- Agricultural Economics 735  
- Information Systems 761*  
- Management 750*  
- Management 740*  

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  

Choose from:  
- Agricultural Economics 701  
- Agricultural Engineering Technology 701  
- Agriculture 720  

IV. Statistics/Advanced Mathematics Group  

Choose from:  
- Agriculture 741  

Or approved graduate level statistics or mathematics course.

V. International Agriculture Group  

Choose from:  
- Agricultural Economics 735  
- Agriculture 732  

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

VI. Agricultural and Science Electives Group  

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.