

Undergraduate Academic Assessment Plan

Agricultural Operations
Management

College of Agricultural
and Life Sciences

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Mission Statement

The mission of the Agricultural and Biological Engineering Department is to develop professionals, create and disseminate knowledge, and promote the application of engineering, science and management principles to meet societal needs with respect to agricultural, biological and land and water resource systems.

The Agricultural Operations Management program develops students that can combine emerging agricultural technologies with business principles so that they can apply cutting edge techniques to a wide variety of career paths. This supports the missions of the college and university to serve the nation's and the state's critical needs by contributing to a well-qualified and broadly diverse citizenry, leadership and workforce.

Student Learning Outcomes (SLOs)

Existing SLOs in the 2012-13 undergraduate catalog:

1. Integrate specific technical knowledge with the overall management of agricultural businesses and operations.
2. Combine management and analytical techniques for agricultural operations.
3. Articulate analytical results clearly in an accepted style of presentation.

Revised SLOs for the 2013-14 undergraduate catalog:

Content

1. Describe fundamental concepts, skills, and processes in Agricultural Operations Management (AOM).
2. Apply fundamental concepts, skills, and processes in AOM.

Critical Thinking

1. Critically evaluate information or data in AOM.
2. Solve problems in AOM.

Communication

1. Communicate effectively in written form in a manner appropriate in AOM.
2. Communicate effectively orally in a manner appropriate in AOM.

New/Revised SLOs, 2013-14*	Link to 2011-12*, 2012-13* SLOs
Content	
Describe fundamental concepts, skills, and processes in Agricultural Operations Management (AOM).	Integrate specific technical knowledge with the overall management of agricultural businesses and operations.
Apply fundamental concepts, skills, and processes in AOM.	
Critical Thinking	
Critically evaluate information or data in AOM.	Combine management and analytical techniques for agricultural operations.
Solve problems in AOM.	
Communication	
Communicate effectively in written form in a manner appropriate in AOM.	Articulate analytical results clearly in an accepted style of presentation.
Communicate effectively orally in a manner appropriate to AOM.	

*undergraduate catalog dates

Curriculum Map

Curriculum Map for:

Agricultural Operations Management

College of Agricultural and Life Sciences

Key: **I**ntroduced

Reinforced

Assessed

Courses SLOs	AEC 3033C	AEC 3030C	AOM 2520	AOM 3220	AOM 3734	AOM 4314	AOM 4455	Additional Assessments
Content Knowledge								
#1			I	I	R	R	A=Module 1 Completion Week 5	
#2				I	R	R	A=Module 2 Completion Week 10	
Critical Thinking								
#3			I	I	R	R	A=Module 1 Completion Week 5	
#4					I	R	A=Module 2 Completion Week 10	
Communication								
#5	I		A=Multiple rubric-graded papers					
#6		I	R				A=Group Presentation Week 15	

Assessment Cycle

All SLOs will be assessed annually

Assessment Cycle Chart

Assessment Cycle for:

Agricultural Operations Management

College of Agricultural and Life Sciences

Analysis and Interpretation:

January – March, annually

Improvement Actions:

Completed by June 30 each year

Dissemination:

Completed by September 30 each year

SLOs	Year	10-11	11-12	12-13	13-14	14-15	15-16
Content Knowledge							
#1			X	X	X	X	X
#2			X	X	X	X	X
Critical Thinking							
#3			X	X	X	X	X
#4			X	X	X	X	X
Communication							
#5		X		X	X	X	X
#6			X	X	X	X	X

Methods and Procedures

Each assessment requirement represents the successful completion of a specific course requirement. The AOM program is modifying a senior level course to serve as a capstone and primary assessment tool for the degree. This course, AOM4455 Agricultural Operations and Systems, will be taught by a select team of AOM faculty. Key AOM faculty plus the Chair and Undergraduate Coordinator, will develop course objectives, assessments and grading rubrics. These rubrics will be used to accurately assess student achievement for each module and the presentation. Overall student success will be measured by:

- a. Completion of all three modules
- b. Completion of presentation
- c. Passing grade in all three modules and presentation
- d. Overall attainment of C or better for the course.

An example of a grading rubric, for AOM2520 Global Sustainable Energy, follows. The data needed for assessment purposes will be collected by the individual instructors for each of these modules. The collected information will be stored by the Undergraduate Coordinator and the Student Records person, Wendell Porter and Robin Snyder, respectively. The data will be periodically analyzed by the Assessment Oversight Committee described below.

Transportation Survey Grading Rubric

	Not acceptable	Meets Expectations	Exceeds Expectations
Format	(6 points) Poor table format, or no table at all	(8 points) Table data is easy to read, well formatted	(10 points) Table data is easy to read, well formatted, could be dropped into a paper.
Survey Completion	(6 points) One or zero modes of transportation included, no explanation	(8 points) Most modes of transportation included, some explanation provided	(10 points) All modes of transportation included and explained
Project Data	(6 points) No clear method of tabulating data	(8 points) Project data is tabulated by group only. For example shows that as a group 20% of trips were auto	(10 points) Project data is tabulated by individual student and group. For example shows that as a group 20% of trips were auto. Also shows that Student 1 had 40% of walking trips, 10% of auto, etc
Conclusion Paragraph	(12 points) Conclusion paragraph does not tie data and summary together	(16 points) Conclusion paragraph ties data and summary together but does not include specific data	(20 points) Conclusion paragraph ties data and summary together, includes specific survey data such as average mpg

Assessment Oversight

This Academic Assessment Plan for the Agricultural Operations Management program will be overseen by a committee of at least five people including the program coordinator, the department chair and 3 additional faculty that teach in the program.

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