

Date Submitted: 09/07/21 6:21 pm

# Viewing: **AGECMS : Agricultural Economics, Master of Science**

Last approved: 03/20/18 8:38 am

Last edit: 09/09/21 9:02 am

Changes proposed by: nkemper

Catalog Pages Using  
this Program

[Agricultural Economics and Agribusiness \(AEAB\)](#)

Submitter: User ID: **nkemper calison** Phone:  
**575-2697 575-6734**

Program Status Active

Academic Level Graduate

Type of proposal Major/Field of Study

Select a reason for this modification

Making Minor Changes to an Existing Certificate or Degree (e.g. changing 15 or fewer hours, changing admission/graduation requirements, adding/changing Focused Study or Track)

Are you adding a concentration?  
No

Are you adding or modifying a track?  
No

Are you adding or modifying a focused study?  
No

Effective Catalog Year Fall 2022

College/School Code  
Bumpers College of Agricultural, Food, and Life Sciences (AFLS)

## In Workflow

1. **AFLS Dean Initial**
2. **GRAD Dean Initial**
3. **Director of Curriculum Review and Program Assessment**
4. **Registrar Initial**
5. **Institutional Research**
6. **AEAB Chair**
7. **AEAB Curriculum Committee**
8. **AFLS Faculty**
9. **AFLS Dean**
10. **Global Campus**
11. **Provost Review**
12. **University Course and Program Committee**
13. Graduate Council
14. Faculty Senate
15. Provost Final
16. Registrar Final
17. Catalog Editor Final

## Approval Path

1. 09/08/21 8:28 am  
Lona Robertson (ljrobert): Approved for AFLS Dean Initial
2. 09/08/21 8:32 am  
Jim Gigantino (jgiganti): Approved for GRAD Dean Initial

## Department Code

Department of Agricultural Economics and Agribusiness (AEAB)

## Program Code

AGECMS

## Degree

Master of Science

## CIP Code

3. 09/09/21 9:03 am  
Alice Griffin  
(agriffin): Approved  
for Director of  
Curriculum Review  
and Program  
Assessment
4. 09/10/21 12:14 pm  
Lisa Kulczak  
(lkulcza): Approved  
for Registrar Initial
5. 09/13/21 11:09 am  
Doug Miles  
(dmiles): Approved  
for Institutional  
Research
6. 11/01/21 2:44 pm  
John Anderson  
(jda042): Approved  
for AEAB Chair
7. 11/12/21 1:58 pm  
Casey Owens  
Hanning  
(cmowens):  
Approved for AEAB  
Curriculum  
Committee
8. 11/12/21 2:37 pm  
Ioannis Tzanetakis  
(itzaneta): Approved  
for AFLS Faculty
9. 11/12/21 2:52 pm  
Lona Robertson  
(ljrobert): Approved  
for AFLS Dean
10. 11/12/21 2:55 pm  
Suzanne Kenner  
(skenner): Approved  
for Global Campus

11. 11/22/21 8:16 am  
 Ketevan  
 Mamiseishvili  
 (kmamisei):  
 Approved for  
 Provost Review

### History

1. Mar 20, 2015 by  
 Charlie Alison  
 (calison)
2. Mar 20, 2018 by  
 Michael Thomsen  
 (mthomsen)

01.0103 - Agricultural Economics.

#### Program Title

Agricultural Economics, Master of Science

#### Program Delivery

##### Method

On Campus

Is this program interdisciplinary?

No

Does this proposal impact any courses from another College/School?

No

What are the total      31  
 hours needed to  
 complete the  
 program?

## Program Requirements and Description

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### Requirements

**Admission Requirements:** All applicants to the graduate program must submit official scores from either the Graduate Record Exam (GRE) or Graduate Management Admission Test (GMAT), although GRE scores are preferred.

**Requirements for the Master of Science Degree in Agricultural Economics (Thesis): (Minimum 31 hours.)**

**Prerequisites to the Thesis Concentration:**

Prerequisites to the Thesis Concentration

Six semester hours of mathematics (College Algebra and Survey of Calculus or Higher Level Calculus)	6
Three semester hours of statistics	3
Six semester hours of upper level (junior or senior) micro- and macro-economic theory	6
Three semester hours of upper-level management	3
Three semester hours of upper-level marketing	3
Three semester hours of introductory accounting.	3
<b>Total Hours</b>	<b>24</b>

Core Requirements

<a href="#"><u>AGEC 5103</u></a>	Agricultural Microeconomics	3
<a href="#"><u>AGEC 5403</u></a>	Quantitative Methods for Agribusiness	3
<a href="#"><u>AGEC 5613/ECON 6613</u></a>	Econometrics	3
<a href="#"><u>AGEC 5623</u></a>	Quantitative Food and Agricultural Policy Analysis	3
or <a href="#"><u>AGEC 5643 AGRICULTURAL DATA SCIENCE</u></a>	<a href="#"><u>Course AGEC 5643 AGRICULTURAL DATA SCIENCE Not Found</u></a>	
<a href="#"><u>AGEC 600V</u></a>	Master's Thesis	6
<a href="#"><u>AGEC 5011</u></a>	Seminar	1

Agricultural Economics Electives 6

Students must take six hours of other graduate courses in Agricultural Economics.

Controlled Electives 6

- Other graduate courses in Agricultural Economics
- Graduate courses in the Walton College of Business
- Other graduate courses

Other Requirements

A minimum of 16 hours of Agricultural Economics.

A maximum of 9 hours of AGEC graduate-level courses may be completed from a) those courses also offered as 4000-level undergraduate classes, and/or b) courses numbered 4000 or lower that do not have a corresponding graduate offering.

**Total Hours** **31**

Students should also be aware of Graduate School requirements with regard to [master's degrees](#).

Are Similar Programs available in the area?

No

Estimated Student Demand for Program	NA
Scheduled Program Review Date	2022-2023

Program Goals and Objectives

**Program Goals and Objectives**

- Increase students' knowledge of core concepts and principles in agricultural economics.**
- Develop students that can effectively identify and analyze issues of importance to society and understand which tools are most appropriate to analyze and solve the economic problems facing society.**
- Develop students that can be effective leaders and agents of change in managing resources and people leading to a more profitable and sustainable agribusiness community / world.**
- Improve students' ability to communicate key concepts and analytical findings in a clear and concise manner. NA**

Learning Outcomes

**Learning Outcomes**

- STUDENT LEARNING OUTCOME 1: PROBLEM SOLVING**  
**Students graduating from the AGECMS program will understand, identify, analyze (utilizing the appropriate research methods, quantitative tools, and information technology), and formulate solutions to economic problems in the private and public sectors dealing with issues concerning the food and fiber production, processing and distribution and managing natural resources.**
- STUDENT LEARNING OUTCOME 2: COMMUNICATION**  
**Graduates will enhance their ability to prepare, organize, and deliver information to effectively communicate (orally, written, and electronically) with scientific, professional, and non-technical audiences.**
- STUDENT LEARNING OUTCOME 3: KNOWLEDGE OF AGRICULTURAL ECONOMICS THEORY AND METHODS**  
**NA**

Description and justification of the request

<b>Description of specific change</b>	<b>Justification for this change</b>
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Description of specific change	Justification for this change
<p>This is a minor change to our AGECMS Program, Thesis Concentration, that consists of two parts:</p> <p>1. Prerequisite Change - due to how the prerequisite was worded previously, as "Survey of Calculus or Higher" students could technically complete our MS Thesis Concentration without having completed a calculus course. Calculus is a very important prerequisite for the Thesis Concentration so the new wording requires that all students have "Survey of Calculus or Higher Level Calculus" as a prerequisite to our Thesis Concentration. The new wording reads: "Six semester hours of mathematics (College Algebra and Survey of Calculus or Higher Level Calculus)"</p> <p>2. New Course Added - a new course will be added to the MS Thesis Concentration Core Requirements. The course will be one of two Quantitative Options that students will be required to complete.</p> <p>AGEC 5643 - Agricultural Data Science (in CIM as new course): this course will be offered by a new faculty member, Dr. Aaron Shew, who has a joint appointment with the Department of Agricultural Economics and Agribusiness (Bumpers) and as the Associate Director of CAST (Fulbright).</p> <p>Because our MS Thesis Program is a two-year program, the sequencing of these courses will allow thesis students to complete all three Quantitative courses if they so choose, but completing the third course as an elective.</p>	<p>1. Prerequisite Change: Calculus is required for mastery of much of the materials in our Thesis Concentration. Students need this mathematical training in their undergraduate studies to be successful or they need to complete a calculus class as a deficiency once admitted to our MS program.</p> <p>2. New Quant Course: Students have consistently expressed the desire to have stronger quantitative skills upon completing our MS program and this course will allow us to offer a highly applied quantitative course using the "R" programming language that is increasingly demanded by industry and academia.</p>

Upload attachments

[AGEC\\_AgDataScience\\_Syllabus\\_Spring2022.pdf](#)

Reviewer Comments

**Alice Griffin (agriffin) (09/09/21 8:55 am):** Revised submitter information. ATTENTION: Due to the change made to the program prerequisites, this minor program change will require campus approval.

**Alice Griffin (agriffin) (09/09/21 9:01 am):** Inserted program goals and student learning outcomes from the 2020 Assessment Plan. College is encouraged to review for accuracy and revise as appropriate.

**Alice Griffin (agriffin) (09/09/21 9:02 am):** AGECE 5643 is currently in the approval workflow, pending the department's approval.

Key: 236