Cover Sheet: Request 13588

Agricultural Operations Management change to required courses

Info

Process	Major Curriculum Modify Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Wendell Porter waporter@ufl.edu
Created	2/6/2019 2:23:37 PM
Updated	4/12/2019 1:46:35 PM
Description of	Three changes to existing course requirements are proposed. There are additional changes to
request	the Transfer Guide.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CALS -	Wendell Porter		2/6/2019
		Agricultural			
		Operations			
		Management			
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CALS Curriculu			la al I I	A common of the CALC CA at the	2/6/2019
College	Approved	CALS - College	Joel H	Approved by CALS CC at the	2/21/2019
		of Agricultural and Life	Brendemuhl	2/15/19 meeting.	
		Sciences			
No document c	hanges	Ociences			
Associate	Approved	PV - Associate	Casey Griffith		2/21/2019
Provost for	Approved	Provost for	Cabby Crimer		2/21/2010
Undergraduate		Undergraduate			
Affairs		Affairs			
No document c	hanges				
University	Commented	PV - University	Lee Morrison	Added to March 3-26 agenda.	3/21/2019
Curriculum		Curriculum			
Committee		Committee			
		(UCC)			
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University	Tabled	PV - University	Casey Griffith	Tabled for April meeting	3/26/2019
Curriculum		Curriculum			
Committee		Committee			
AOM2018-2019) roy 02 25 d	(UCC)			3/25/2019
			for AOM 03 25.doc	^	3/25/2019
University		PV - University	Lee Morrison	Added to April agenda.	4/12/2019
Curriculum	Commented	Curriculum	Lee Morrison	Added to April agenda.	7/12/2019
Committee		Committee			
		(UCC)			
No document c	hanges				
University	Tabled	PV - University	Casey Griffith	Tabled for May meeting.	4/12/2019
Curriculum		Curriculum			
Committee		Committee			
		(UCC)			
No document changes					
	Pending	PV - University			4/12/2019
Curriculum		Curriculum			
Committee		Committee			
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Original file: Cover sheet.pdf

Step	Status	Group	User	Comment	Updated
No document changes					
Student					
Academic					
Support					
System					
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Catalog					
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Academic					
Assessment					
Committee					
Notified					
No document changes					
College					
Notified					
No document changes					

Major|Modify_Curriculum for request 13588

Info

Request: Agricultural Operations Management change to required courses

Description of request: Three changes to existing course requirements are proposed. There are

additional changes to the Transfer Guide. **Submitter:** Wendell Porter waporter@ufl.edu

Created: 3/4/2019 10:50:56 AM

Form version: 2

Responses

Major Name Agricultural Operations Management

Major Code AOM

Degree Program Name Agricultural Operations Management

Undergraduate Innovation Academy Program No

Effective Term Earliest Available

Effective Year Earliest Available

Current Curriculum for Major The current AOM curriculum includes PSY2012 Introduction to Psychology. This course was in the curriculum years ago due to a stronger focus on human resources for one of our specializations.

The AOM program currently includes both ALS3133 Agriculture and Environmental Quality and SWS3022 Introduction to Soils.

The AOM curriculum requires both ECO2013 and ECO2023 and allows AEB2014 to be a substitute. **Proposed Curriculum Changes** The PSY2012 course will be deleted due and replaced with one of CGS1100, CGS1101, or CGS2531. Our industry focus group and conversation with additional stakeholders strongly suggest a better foundation in computer technologies.

The AOM major is the only major that currently requires both ALS3133 and SWS3022. There is some overlap in these courses and we recommend that our students take one or the other and use the additional hours to support a GIS course; DCP2001 Introduction to GIS. This will better support our academic efforts in Precision Agriculture.

Our College requires that our students take one of ECO2013, ECO2023 or AEB2014. This change aligns our degree requirements with the College. We will add our new Agri-Food Systems Innovations course, AOM4932.

Pedagogical Rationale/Justification We reviewed our entire program and included input from our industry advisory group to help support a better foundation in two key areas of our program: precision agriculture and food security. Additional details in attached documentation.

Impact on Enrollment, Retention, Graduation These changes will affect new students as requirements and current students only as options if desired.

Assessment Data Review These changes will not add or detract to our current SLO's at this time. **Academic Learning Compact and Academic Assessment Plan** No changes are planned

Agricultural Operations Management

Proposed Changes 2018-2019

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Plan of Study Grid Semester One Credits				
Select one:	Integrated Principles of Biology 1			
BSC 2010 †& 2010L BOT 2010C	fand Integrated Principles of Biology Laboratory 1 (Critical Tracking) Introductory Botany (Critical Tracking ; Gen Ed Biological Sciences)	3-4		
- IUF 1000	What is the Good Life (Gen Ed Humanities)	3		
Select one:		3-4		
MAC 1147	Precalculus Algebra and Trigonometry (Critical Tracking; State Core Gen Ed Mathematics) Survey of Calculus 1 (Critical			
MAC 2233	Tracking; State Core Gen Ed Mathematics)			
State Core Gen Ed Composition ; V International	Writing Requirement; with Diversity or	3		
Select one:	Credits Semester Two	13-14		
ACG 2021	Introduction to Financial Accounting (4		
Advisor-approved alternative (Crit	Critical Tracking) ical Tracking) General Chemistry 1			
<u>CHM 2045</u>	fand General Chemistry 1 Laboratory (4		
†& <u>2045L</u>	Critical Tracking; State Core Gen Ed Physical Sciences)			
STA 2023	Introduction to Statistics 1 (Gen Ed Mathematics)	3		
State Core Gen Ed Humanities with Gen Ed Physical Sciences	Diversity or International Credits	3 3 17		
	Semester Three			
AOM 2520	Global Sustainable Energy: Past, Present and Future	3		
Select one:	Economic Issues, Food and You	3-4		
AEB 2014 ECO 2013	Principles of Macroeconomics (Gen Ed			
	Social and Behavioral Sciences) of Microeconomics			
Select one:		4		
PHY 2004	Applied Physics 1			
†& 2004L	fand Laboratory for Applied Physics 1 (Critical Tracking; Gen Ed Physical Sciences)			
DUN 2020	Introduction to Principles of Physics			
PHY 2020 & PHY 2004L	fand Laboratory for Applied Physics 1 (Critical Tracking; Gen Ed Physical			
Origi	Sciences) nal file: AOM2018-2019 rev 03 25.do	сх		

Select one:	,	3
CGS2531	Problem Solving Using Computer	3
CG52551	Software (Critical Tracking)	
CGS1100	Microcomputer Applications (Critical Tracking)	
CGS1101	Introduction to Computer Applications for Business (Critical Tracking)	
	Credits	13-14
	Semester Four	
Select one:	Effective Oral Communication (3
<u>AEC 3030C</u>	Critical Tracking)	
SPC 2608	Introduction to Public Speaking (Critical Tracking)	
-	Technical Writing (Critical Tracking;	
ENC 2210	Gen Ed Composition)	3
	r ,	-
AOM4932	Agri-Food Systems Innovation	3
	General Education Social Science	
GE Social Science	course	3
Approved elective	Credits	3 15
	Semester Five	13
<u>AEB 3300</u>	Agricultural and Food Marketing	3-4
or MAR 3023	or Principles of Marketing	3 4
AEB 3133 or MAN 3025	Principles of Agribusiness Management or Principles of Management	3-4
AOM 3220	Agricultural Construction and	3
	Maintenance	
AOM 3333 Approved elective	Pesticide Application Techniques	3
11	Credits	15-17
	Summer After Semester Five Irrigation Principles and Practices in	
<u>AOM 3734</u>	Florida	3
	Credits	3
	Semester Six Agricultural and Environmental Quality	
ALS 3133	or Introduction to Biofuels	2
or <u>AOM 4521</u> or SWS 3022	or Introduction to Soils in the	3
01 5 W 5 3022	Environment	
AOM 4314C	Power and Machinery Management	3
DCP2001	Introduction to GIS 1d	3
AOM 4933 Pr Management	ofessional Practices in Agricultural Operations	1
Approved electives		6
11	Credits	16
Select one business law	Semester Seven ethics, or human resources course:	3-4
	Agricultural Risk Management and the	<i>3</i> .
AEB 4085	Law	
AEB 4123	Agricultural and Natural Resource Law Agricultural and Natural Resource	
<u>AEB 4126</u>	Ethics	
BUL 4310	The Legal Environment of Business	
-	Environmental Systems for Agricultural	
<u>AOM 4642</u>	Structures	3
AOM 4643	Environmental Hydrology: Principles	3
Approved electives	and Issues	6
Tippio rod clooti ros	Credits	15-16
A ONA 4424	Semester Eight	2
<u>AOM 4434</u>	Precision Agriculture Electrical Power and Instrumentation for	3
<u>AOM 4444C</u>	Agricultural Operations Management	3
AOM 4455	Agricultural Operations and Systems	3
AOM 4461 Approved elective	Sustainable Agricultural Systems	3 3 2
-rr	Credits Original file: AOM2018-2019 rev 03 25.do	_ 1 <i>/</i> 1
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Total Credits

120

AGRICULTURAL OPERATIONS MANAGEMENT

Agricultural Operations Management (AOM) combines emerging technologies with business principles to allow students to apply cutting edge techniques to a wide variety of career paths. Students gain technical expertise in systems management, environmental quality, energy efficiency, agricultural construction management, machinery, GIS/GPS remote sensing, safety, irrigation, power systems, water control and food processing. Students select a concentration based on their interest area.

The curriculum supports students who plan to seek career opportunities in commercial business operations and management. In addition to hands-on applied skills, students will take courses in economics, accounting, business, finance and management. Graduates become an integral part of the profitable operations of many types of businesses, such as agricultural production facilities, grove management, commercial nurseries, construction management and materials, regulatory agencies and citrus processing.

Students must complete an Associate of Arts degree, meet the required grade point average (G.P.A.), complete the required prerequisite courses, and meet the foreign language and immunization policies of the University of Florida before transferring.

Agricultural Operations Management

Required G.P.A. = 2.0 overall and 2.0 in the following courses.

Students MUST completeall of the courses listed below prior to transfer with an AA degree.

MAC 2233 Survey of Calculus 1 3

or MAC 1147 Precalculus 4

or MAC 1140 & MAC 1114 Precalculus Algebra and Trig 6

CHM 2045 & 2045L General Chemistry 1 and Lab 4

PHY 2004 Applied Physics 1 3

or PHY 2020 Introduction to Principles of Physics 3

ENC 2210 Technical Writing 3

BSC 2010/2010L General Biology 1 and Lab 4

ACG 2021 Introduction to Financial Accounting 4

The following courses may be completed at the community/state college, but are not required for admission to the College of Agricultural and Life Sciences:

ECO 2013 Macroeconomics or ECO 2023 Microeconomics 3

STA 2023 Introduction to Statistics 1 3

SPC 2608 Public Speaking

STA 2023 Introduction to Statistics 1

CGS 1100, 1101 or 2531 Microsoft Applications (or equivalent)

MAR 3023 Principles of Marketing

MAN 3025 Principles of Management

Find the academic adviser and website for this major at www.cals.ufl.edu/undergraduate



Institute of Food and Agricultural Sciences

Agricultural and Biological Engineering Department

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E-mail: waporter@ufl.edu

February 6, 2019

Dear CALS Curriculum Committee,

The AOM program has undertaken a formal review of the entire program. This review has incorporated input from industry partners, AOM alumni, internal and external faculty. We are planning a number of changes to the AOM curriculum to better reflect the needs of both the students and industry in the future. The first series of planned changes have been reviewed by AOM faculty, the department curriculum committee and the department Chair. These changes are:

- 1. Delete PSY2012, Introduction to Psychology and replace with one of: CGS1100, CGS1101 or CGS2531. It was almost a universal agreement that our students needed better preparation in the area of computer based applications.
- 2. Choose one of ALS3133, Agriculture and Environmental Quality or SWS3022, Introduction to Soils in the Environment, not both. Replace the deleted course with DCP2001, Introduction to GIS. We have consulted with DCP and they are supportive of our plans. We plan on enhancing our elective course in the Precision Agriculture area. A GIS introduction course will give our students a better foundation.
- 3. Delete requirement to take both ECO2013 and 2023 and replace with a requirement to take one of: ECO2013, ECO2023, or AEB2014. Replace the deleted course with our new AOM core course: AOM4932 Agri-Food Systems Innovation.

Also, due to lower division issues at UF, we would like to make the following changes to our Transfer Guide and change the text to reflect that we no longer have a 6 of 8 requirement for transfer courses:

Require the following 6 courses:

CHM2045 and lab PHY2004 or PHY2020 and an applied physics lab MAC1147 or

MAC1140 & 1114

The Foundation for The Gator Nation

BSC2010 and lab ENC2210 ACG2021

The following courses are suggested to be taken before transfer but are not absolutely required before transfer:

Other courses required in the AOM major that are recommended before transfer:

SPC2608 STA2023 ECO2013 or ECO2023 CGS1100, 1101 or 2531 MAR3023 MAN3025

Track changes versions of our 8 semester plan and our Transfer Guide are included with this memo.

Sincerely,

Dr. Wendell A. Porter, P.E. Sr. Lecturer and Adviser Agricultural & Biological Engineering University of Florida