

# Cover Sheet: Request 11899

## Gateway to Agroecology

### Info

Process	Certificate New Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Theresa Martin tmoore72@ufl.edu
Created	10/5/2017 12:38:17 PM
Updated	10/25/2017 7:20:43 PM
Description of request	<p>We've had a steady increase in the number of students who are interested in Agroecology but lack a degree in the sciences or the appropriate science coursework to immediately begin a master's program.</p> <p>This certificate gives students the ability to complete the most appropriate courses for preparation to join the Master's in Agroecology at UF.</p>

### Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CALS - Agronomy 514908000	Theresa Martin		10/5/2017
No document changes					
College	Approved	CALS - College of Agricultural and Life Sciences	Theresa Martin	Approved at the CALS CC on 10/13/17.	10/20/2017
Soils Approval of Course Use_10-11-17.pdf					
Office of Institutional Planning and Research	Approved	PV - Office of Institutional Planning and Research	Theresa Martin		10/11/2017 10/25/2017
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			10/25/2017
No document changes					
Office of the Registrar					
No document changes					
OIPR Notified					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
Academic Assessment Committee Notified					
No document changes					
College Notified					
No document changes					

# Certificate|New for request 11899

## Info

**Request:** Gateway to Agroecology

**Description of request:** We've had a steady increase in the number of students who are interested in Agroecology but lack a degree in the sciences or the appropriate science coursework to immediately begin a master's program.

This certificate gives students the ability to complete the most appropriate courses for preparation to join the Master's in Agroecology at UF.

**Submitter:** Theresa Martin tmoore72@ufl.edu

**Created:** 10/5/2017 12:38:17 PM

**Form version:** 1

## Responses

**Certificate Name** Gateway to Agroecology

**Transcript Title** Gateway to Agroecology Certificate

**Credits** 9

**Level** Baccalaureate

**CIP Code** 01.1102

**Degree Program** Agronomy

**Effective Term** Spring

**Effective Year** 2018

**Certificate Description** Gateway to Agroecology provides an opportunity to students with no science background to obtain foundational information required to enter an Agroecology MS program.

**Requirements for Admission** Students who hold a Bachelor's degree from an accredited institution.

**Requirements for Completion** Core (9 credits):

SWS 3022 (3) Introduction to Soils in the Environment Letter Graded

ALS 4154 (3) Global Agroecosystems Letter Graded

PLS 3004C (3) Principles of Plant Science Letter Graded

**Rationale and Place in Curriculum** More students are expressing interest in continuing their education opportunities with a MS in Agroecology, but do not currently hold a degree in the sciences. This certificate will provide the appropriate courses to transition into our MS Agroecology program, while providing additional off-book revenue for the department.

Students that have not completed the prerequisite courses required will be reviewed by advisors to determine appropriate action for the student to take.

**Student Learning Outcomes** Student Learning Outcomes and Assessment types are as follows:

ALS 4154

SLO

1. Describe and understand global agricultural production systems.
2. Explain and provide examples of agricultural production issues from environmental, economic, and societal perspectives.
3. Apply the knowledge gained in this course to identify emerging agricultural production systems.

ASSESSMENT

1. 3 online exams through Canvas. 25 points each = 75 points total
2. Class participation will consist of weekly discussions of assigned scientific readings on advanced topics = 25 points total

PLS3004C

SLO's

1. Apply the theoretical knowledge covered in the course to production situations and make scientifically sound recommendations.
2. Understand management practices (e.g. soil, water, nutrients, rotations, crop and variety selection,

overall

plant production system) and interpret how they affect plant production.

3. Formulate hypotheses about the processes that impact plant growth and develop and propose experiments that could be developed to test hypotheses based on the scientific method.

4. Communicate in both oral and written forms about key scientific concepts related to plant anatomy, plant

genetics, plant physiology, soils and crop production practices to different audiences to inform them about

issues of concern related to agricultural production.

5. Assess future agricultural production needs and opportunities to identify potential career paths in the

agricultural sciences.

#### ASSESSMENT

1. Assignments (70%): Assignments will be given regularly in class and for each module. To supplement course content and apply concepts learned in class, every student will complete a total of five (5) service hours related to the Plant Sciences at an approved location before the end of the semester, and complete the Service Hours Evaluation Assignment.

2. Participation (5%):

3. Project (25%): 2 projects will be completed: Individual Plant Science Profile and Group Plant Challenge Project

SWS3022

SLO

1. Content: Demonstrate competence in the terminology, concepts, and methodologies

2. Communication: communicate knowledge, ideas, and reasoning clearly and effectively in written and oral forms appropriate to the discipline.

3. Critical Thinking: analyze information carefully and logically from multiple perspectives using discipline specific methods, and develop reasoned solutions to problems.

#### ASSESSMENT

Ongoing communication evaluation, content exams and multiple choice or true/false quizzes, discussions and assignments which incorporate fundamental concept knowledge and computations relevant to course material. Computation, analysis and application of data/results to issues related to soil management will assess the critical thinking skills.

**From:** [Reddy, K. Ramesh](#)  
**To:** [Martin, Theresa M](#)  
**Subject:** Re: Approval for use of Course  
**Date:** Wednesday, October 11, 2017 10:33:02 AM  
**Attachments:** [image001.png](#)

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Theresa. I am fine with including the soils course.

Ramesh

Sent from my iPhone

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**From:** Martin, Theresa M  
**Sent:** Monday, October 2, 2017 10:13 AM  
**To:** Reddy, K. Ramesh <[krr@ufl.edu](mailto:krr@ufl.edu)>  
**Subject:** Approval for use of Course

Dr. Reddy:

We are establishing an undergraduate (post-bacc) certificate called "Gateway to Agroecology". This is to meet the need for students interested in Agroecology, but who lack the appropriate science background. This certificate will provide them with the main courses needed to prepare them for the Master's in Agroecology.

This certificate will only have 3 core courses (no electives), and one of the courses we want to include is SWS3022 Introduction to Soils in the Environment.

Could you provide your approval for the use of this course please?

Thanks.

Theresa

<[image001.png](#)>

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**Theresa Martin** | Administrative Specialist | **Agronomy Department**  
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