

Cover Sheet: Request 11519

Soil and Water Sciences

Info

Process	Program Change name Ugrad/Pro
Status	Pending
Submitter	Sisk,Michael J mjsisk@ufl.edu
Created	2/24/2017 12:23:14 PM
Updated	4/6/2017 8:21:33 AM
Description of request	In March/April 2016, We Received Approval To Change Our Name From "Soil and Water Science Department" to "Soil and Water Sciences Department". This Change Was Requested To Better Reflect The Multiple Scientific Disciplines Within Our Department. This Same Rationale Also Applies To The Courses (Core & Elective) Required For The Undergraduate Major.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CALS - Soil and Water Science 514921000	Reddy, K. Ramesh		2/24/2017
Added Soil and Water Sciences Undergraduate Major.pdf					2/24/2017
Added SWSD Dept Name Change Email_4_7_16.pdf					2/24/2017
Added Minutes - Educational Policy & Strategic Initiatives Committees - March 31st.pdf					2/24/2017
College	Approved	CALS - College of Agricultural and Life Sciences	Brendemuhl, Joel H	Approved by CALS Associate Dean - Joel Brendemuhl.	2/27/2017
No document changes					
AP for Undergraduate Affairs	Approved	PV - Associate Provost for Undergraduate Affairs	Griffith, Casey Todd		2/27/2017
No document changes					
University Curriculum Committee	Approved	PV - University Curriculum Committee (UCC)	Griffith, Casey Todd		3/7/2017
No document changes					
Faculty Senate Steering Committee	Recycled	FAC - Faculty Senate Steering Committee	Garfield, Wanda	Accidentally approved. Recycled as requested by Casey Griffith.	4/6/2017
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			4/6/2017
No document changes					
Faculty Senate Steering Committee					
No document changes					

Step	Status	Group	User	Comment	Updated
Faculty Senate					
No document changes					
Academic Affairs					
No document changes					
Board of Trustees Notified					
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					
College Notified					
No document changes					

Program-Major/|Change_Name for request 11519

Info

Request: Soil and Water Sciences

Description of request: In March/April 2016, We Received Approval To Change Our Name From "Soil and Water Science Department" to "Soil and Water Sciences Department". This Change Was Requested To Better Reflect The Multiple Scientific Disciplines Within Our Department. This Same Rationale Also Applies To The Courses (Core & Elective) Required For The Undergraduate Major.

Submitter: Sisk,Michael J mjsisk@ufl.edu

Created: 2/24/2017 12:23:14 PM

Form version: 1

Responses

Current Degree Program NameBachelor of Science

CIP Code011201

Requested Name ChangeChange the name of a major.

Current Major NameSoil and Water Science

Proposed Major Name Soil and Water Sciences

Current Major CodeSLS

Proposed Major CodeN/A

Effective TermEarliest Available

Effective YearEarliest Available

Pedagogical Rationale/JustificationIn March/April 2016, We Received Approval To Change Our Name From "Soil and Water Science Department" to "Soil and Water Sciences Department". This Change Was Requested To Better Reflect The Multiple Scientific Disciplines Within Our Department. This Same Rationale Also Applies To The Courses (Core & Elective) Required For The Undergraduate Major.

Assessment Data ReviewN/A

Academic Learning Compact and Academic Assessment PlanN/A

Soil and Water Sciences

Students majoring in soil and water sciences complete core requirements that stress a balance between the fundamentals of science and a foundation in the humanities, social sciences, business and natural science. A capstone experience through which a student will gain employment skills needed to solve environmental and agricultural problems is required.

About this Major

- **College:** [Agricultural and Life Sciences](#)
 - **Degree:** Bachelor of Science
 - **Credits for Degree:** 120
 - **Specializations:**
 - [Soil Science](#); [Water Science](#)
 - [Academic Learning Compact](#)
 - [Additional Information](#)
-
- [Related Soil and Water Sciences Programs](#)

To graduate with this major, students must complete all university, college, and major requirements.

Students are trained in managing land and water resources in a wide range of ecosystems, including agricultural, forested, range, urban and wetlands through different degree programs. Specializations within these degree programs are designed to give the student a strong background in soil and water sciences with a core of required courses taken during their junior and senior years.

Students may prepare for professional schools by selecting appropriate elective courses.

Soil Science

[Critical Tracking Model Semester Plan](#)

Areas of study include soil and land use (with an accent on natural resources and the environment), environmental management (with an accent on agricultural and other applied aspects of soil sciences), physical and biological sciences (with an accent on physics, microbiology, botany and/or other biological sciences) and business (with an accent on economics, business administration or entrepreneurship).

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida [Common Course Prerequisites](#) may be used for transfer students.

Semester 1

- Complete 2 of 5 critical courses, excluding labs: BSC 2005/2005L or BSC 2010/2010L, CHM 2045/2045L, CHM 2046/2046L, MAC 2311, PHY 2004/2004L
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

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Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold.

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.

Semester 1	Credits
AEB 2014 Economic Issues, Food and You, <i>3 credits, or</i> ECO 2013 Principles of Macroeconomics, <i>4 credits, or</i> ECO 2023 Principles of Microeconomics, <i>4 credits</i> <i>GE-S</i>	3-4
BSC 2005 Biological Sciences , <i>3 credits, and</i> BSC 2005L Laboratory in Biological Sciences , <i>1 credit</i> <i>OR</i> BSC 2010 Integrated Principles of Biology 1 , <i>3 credits, and</i> BSC 2010L Integrated Principles of Biology Laboratory 1 , <i>1 credit</i> <u>State Core GE-B/P</u>	4
Composition <u>State Core GE-C</u> ; WR	3
Electives	4
	Total 14-15

Semester 2	Credits
IUF 1000 What is the Good Life <i>GE-H</i>	3
MAC 2311 Analytic Geometry and Calculus 1 <u>State Core GE-M</u>	4
MCB 2000 Microbiology, <i>3 credits, and</i> MCB 2000L Microbiology Laboratory, <i>1 credit</i>	4
Elective	2
Social and Behavioral Sciences <u>State Core GE-S</u>	3
	Total 16

Semester 3	Credits
AEC 3030C Effective Oral Communication <i>or</i> SPC 2608 Introduction to Public Speaking	3
CHM 2045 General Chemistry 1 , <i>3 credits, and</i> CHM 2045L General Chemistry 1 Laboratory , <i>1 credit</i> <i>GE-P</i>	4
STA 2023 Introduction to Statistics 1, <i>3 credits, or</i> MAC 2312 Analytic Geometry and Calculus 2, <i>4 credits</i> <i>GE-M</i>	3-4
Composition <u>GE-C</u>	3
Electives	2

Total 15-16

Semester 4	Credits
CHM 2046 General Chemistry 2, 3 credits, and CHM 2046L General Chemistry 2 Laboratory, 1 credit GE-P	4
PHY 2004 Applied Physics 1, 3 credits, and PHY 2004L Laboratory for Applied Physics 1, 1 credit GE-P	4
SWS 3022 Introduction to Soils in the Environment, 3 credits, and SWS 3022L Introduction to Soils in the Environment Laboratory, 1 credit GE-P	4
Humanities State Core GE-H	3

Total 15

Semester 5	Credits
CHM 2200 Fundamentals of Organic Chemistry, 3 credits, and CHM 2200L Fundamentals of Organic Chemistry Laboratory, 1 credit OR	4
CHM 3120 Introduction to Analytical Chemistry, 3 credits, and CHM 3120L Introduction to Analytical Chemistry Laboratory, 1 credit	
SWS 4451 Soil and Water Chemistry	3
Approved electives	8

Total 15

Semester 6	Credits
AEC 3033C Research and Business Writing in Agricultural and Life Sciences WR	3
SWS 4231C Soil, Water and Land Use	3
SWS 4715C Environmental Pedology	4
Approved elective	3

Total 13

Summer	Credits
SWS 4905 Individual Work <i>or</i> SWS 4941 Full-time Practical Work Experience in Soil and Water Science	1-3
Approved elective	2

Total 3-5

Semester 7	Credits
SWS 4303C Soil Microbial Ecology	3
SWS 4602C Soil Physics GE-P	3
Approved electives	10

Total 16

Semester 8	Credits
SWS 4244 Wetlands	3
Approved electives	10-11
	Total 13-14

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Approved Electives

Courses	Credits
ALS 3133 Agricultural and Environmental Quality	3
EES 4401 Public Health Engineering	3
GEO 3162C Introduction to Quantitative Analysis for Geographers	3
GEO 3250 Climatology	3
GEO 3280 Principles of Geographic Hydrology	3
GLY 1150L Florida Geology Laboratory	1
SWS 2007 The World of Water	3
SWS 2008 Land and Life	3
SWS 3023L Soil Judging	2
SWS 4116 Environmental Nutrient Management	3
SWS 4180 Earth System Analysis	3
SWS 4207 Sustainable Agricultural and Urban Land Management	3
SWS 4223 Environmental Biogeochemistry	3
SWS 4233 Soil and Water Conservation	3
SWS 4245 Water Resource Sustainability	3
SWS 4307 Ecology of Waterborne Pathogens	3
SWS 4550 Soils, Water and Public Health	3
SWS 4720C GIS in Soil and Water Science	3
SWS 4905 Individual Work	var
SWS 4911 Supervised Research in Soil and Water Science	var
SWS 4915 Honors Thesis Research in Soil and Water Science	var
SWS 4932 Special Topics in Soil and Water Science	var

Electives are chosen with the student's advisor. There are four areas of specialization: soil, water and land use, environmental soil and water management, physical sciences and biological sciences. The student is encouraged to take electives from a range of course groupings that include biology, building construction, chemistry, earth science, environmental science, hydrology, mathematics, physics, policy, production systems, programming and statistics.

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Water Science

[Critical Tracking Model Semester Plan](#)

Water's abundance, quality, distribution and properties are essential to all people. Understanding water's role in the environment and in our lives is integral to the future of this important resource. Water science is an interdisciplinary specialization that provides students with opportunities to develop skills essential for a diversity of careers in government and the private sector. Students will work closely with advisors to develop a course of study appropriate to their goals.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida [Common Course Prerequisites](#) may be used for transfer students.

Semester 1

- Complete 2 of 5 critical courses, excluding labs: BSC 2005/2005L or BSC 2010/2010L, CHM 2045/2045L, CHM 2046/2046L, MAC 2311, PHY 2004/2004L
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 1 additional critical-tracking course, excluding labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all critical-tracking courses, including labs
- 2.0 GPA required for all critical-tracking courses
- 2.0 UF GPA required

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Model Semester Plan

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Semester 1	Credits
AEB 2014 Economic Issues, Food and You, <i>3 credits, or</i> ECO 2013 Principles of Macroeconomics, <i>4 credits, or</i> ECO 2023 Principles of Microeconomics, <i>4 credits</i> <i>GE-S</i>	3-4
BSC 2005 Biological Sciences, 3 credits, and BSC 2005L Laboratory in Biological Sciences, 1 credit <i>OR</i> BSC 2010 Integrated Principles of Biology 1, 3 credits, and BSC 2010L Integrated Principles of Biology Laboratory 1, 1 credit State Core GE-B/P	4
Composition State Core GE-C ; WR	3
Electives	4
	Total 14-15

Semester 2	Credits
IUF 1000 What is the Good Life <i>GE-H</i>	3
MCB 2000 Microbiology, <i>3 credits, and</i> MCB 2000L Microbiology Laboratory, <i>1 credit</i>	4
SWS 2007 The World of Water <i>GE-P</i>	3
Elective	2
Social and Behavioral Sciences State Core GE-S	3
	Total 15

Semester 3	Credits
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AEC 3030C Effective Oral Communication <i>or</i> SPC 2608 Introduction to Public Speaking	3
CHM 2045 General Chemistry 1, 3 credits, and CHM 2045L General Chemistry 1 Laboratory, 1 credit	4
<i>GE-P</i>	
MAC 2311 Analytic Geometry and Calculus 1	4
<u>State Core GE-M</u>	
Composition	3
<i>GE-C; WR</i>	
Electives	2
	Total 16

Semester 4 Credits

CHM 2046 General Chemistry 2, 3 credits, and CHM 2046L General Chemistry 2 Laboratory, 1 credit	4
<i>GE-P</i>	
PHY 2004 Applied Physics 1, 3 credits, and PHY 2004 Laboratory for Applied Physics 1, 1 credit	4
<i>GE-P</i>	
STA 2023 Introduction to Statistics 1, 3 credits, <i>or</i> MAC 2312 Analytic Geometry and Calculus 2, 4 credits	3-4
<i>GE-M</i>	
Humanities	3
<u>State Core GE-H</u>	
	Total 14-15

Semester 5 Credits

CHM 2200 Fundamentals of Organic Chemistry, 3 credits, <i>and</i> CHM 2200L Fundamentals of Organic Chemistry Laboratory, 1 credit	4
<i>OR</i>	
CHM 3120 Introduction to Analytical Chemistry, 3 credits, <i>and</i> CHM 3120L Introduction to Analytical Chemistry Laboratory, 1 credit	
SWS 3022 Introduction to Soils in the Environment, 3 credits, <i>and</i> SWS 3022L Introduction to Soils in the Environment Laboratory, 1 credit	4
<i>GE-B/P</i>	
SWS 4451 Soil and Water Chemistry	3
<u>Approved elective</u>	3
Elective	3
	Total 17

Semester 6 Credits

AEC 3033C Research and Business Writing in Agricultural and Life Sciences	3
<i>WR</i>	
SWS 4223 Environmental Biogeochemistry	3

SWS 4244 Wetlands	3
Approved electives	6
	Total 15

Summer Credits

SWS 4905 Individual Work <i>or</i>	1-3
SWS 4941 Full-time Practical Work Experience in Soil and Water Science	
Approved elective	2
	Total 3-5

Semester 7 Credits

FNR 4660 Natural Resource Policy and Economics <i>or</i>	3
PUP 4224 Florida Environmental Politics	
SWS 4602C Soil Physics	3
<i>GE-P</i>	
Approved electives	7
	Total 13

Semester 8 Credits

SWS 4245 Water Resource Sustainability	3
SWS 4307 Ecology of Waterborne Pathogens	3
Approved electives	7-8
	Total 13-14

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Approved Electives

Courses	Credits
ALS 3133 Agricultural and Environmental Quality	3
AOM 3734 Irrigation Principles and Practices in Florida	3
AOM 4643 Environmental Hydrology: Principles and Issues	3
EES 4201 Water Chemistry	3
EES 4401 Public Health Engineering	3
FAS 4305C Introduction to Fishery Science	2
FNR 4343C Forest Water Resources	3
GEO 3162C Introduction to Quantitative Analysis for Geographers	4
GEO 3250 Climatology	3
GEO 3280 Principles of Geographic Hydrology	4
GLY 1150L Florida Geology Laboratory	1
GLY 3083C Fundamentals of Marine Sciences	3
OCE 3016 Introduction to Coastal and Oceanographic Engineering	3
SWS 4231C Soil, Water and Land Use	3

SWS 4233 Soil and Water Conservation	3
SWS 4550 Soils, Water and Public Health	3
SWS 4715C Environmental Pedology	4
SWS 4720C GIS in Soil and Water Science	3
SWS 4905 Individual Work	var
SWS 4911 Supervised Research in Soil and Water Science	var
SWS 4915 Honors Thesis Research in Soil and Water Science	var
SWS 4932 Special Topics in Soil and Water Science	var

Electives are chosen with the student's advisor. The student is encouraged to take electives from a range of course groupings that include biology, building construction, chemistry, earth science, environmental science, geology, hydrology, mathematics, physics, policy, production systems, programming, soils and statistics.

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Related Soil and Water Sciences Programs

- [Combined Degree](#)
- [Soil and Water Sciences minor](#)

Copied From Full Minutes

**UNIVERSITY OF FLORIDA BOARD OF TRUSTEES COMMITTEE ON EDUCATIONAL POLICY AND STRATEGY
COMMITTEE MINUTES**

March 31, 2016

President's Room 215B, Emerson Alumni Hall University of Florida, Gainesville, Florida

Time Convened: 1:42 p.m., EDT

Time Adjourned: 3:15 p.m. EDT

6.9 Name Change: Department of Soil and Water Sciences

Provost Glover noted that an "s" has been added to "Science" in the Department of Soil and Water Sciences' name, making "Science" plural, because multiple scientific disciplines are covered. This is so minor a change, in the nature of correcting a scrivener's error, that a formal process is unwarranted.

The Committee concurred.

Newmans,Janice L

From: Holt,Rebecca J
Sent: Thursday, April 07, 2016 11:17 AM
To: Newmans,Janice L
Subject: FW: Change Department Name

4/11/16
No issues
From BOT -
change can be
made.

FYI

From: Glover,Joseph
Sent: Monday, March 21, 2016 1:13 PM
To: Payne,Jack M <jackpayne@ufl.edu>
Cc: Glover,Joseph <jglover@aa.ufl.edu>; Keith,Jamie Lewis <jkeith@UFL.EDU>; May,Cheryl D <cmay@aa.ufl.edu>; Holt,Rebecca J <bholt@aa.ufl.edu>
Subject: RE: Change Department Name

It is so minor, I think it can be done administratively. Why don't we just add it as an Information Item to the upcoming BOT meeting on Educational Policy committee??

From: Payne,Jack M
Sent: Monday, March 21, 2016 11:40 AM
To: Glover,Joseph <jglover@aa.ufl.edu>
Cc: Reddy, K. Ramesh <krr@ufl.edu>
Subject: Change Department Name

Joe,

The faculty of the Department of Soil and Water Science would like to change the name of their Department to **Department of Soil and Water Sciences - simply adding an "s" to Science**. This reflects what they do in the department with both Soil Science and Water Science programs.

Can this be done administratively or does it need to go to BoT?

Thanks,
Jack



Jack M. Payne, Senior Vice President of Agriculture and Natural Resources
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Janice L. Newmans, Executive Administrative Assistant
(352-273-3453) jlne@ufl.edu