

Cover Sheet: Request 15575

CALS BS Soil and Water Sciences - Water Science - Quest 2 Curriculum Update

Info

Process	Major Curriculum Modify Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Michael Sisk mjsisk@ufl.edu
Created	12/10/2020 2:22:16 PM
Updated	2/10/2021 12:51:32 PM
Description of request	Quest 2 Curriculum Update for Soil and Water Sciences - Water Science major from College of Agricultural and Life Sciences

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CALS - Soil and Water Science 60210000	Matthew Whiles		12/10/2020
No document changes					
College	Approved	CALS - College of Agricultural and Life Sciences	Joel H Brendemuhl	Approved by CALS Associate Dean Joel Brendemuhl.	12/17/2020
2021 – 2022 BS – SWS–WS – Degree Program.docx					
Associate Provost for Undergraduate Affairs	Approved	PV - Associate Provost for Undergraduate Affairs	Casey Griffith		12/17/2020 2/10/2021
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			2/10/2021
No document changes					
Office of the Registrar					
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					

Major|Modify_Curriculum for request 15575

Info

Request: CALS BS Soil and Water Sciences - Water Science - Quest 2 Curriculum Update
Description of request: Quest 2 Curriculum Update for Soil and Water Sciences - Water Science major from College of Agricultural and Life Sciences
Submitter: Joel H Brendemuhl brendj@ufl.edu
Created: 12/17/2020 3:37:11 PM
Form version: 3

Responses

Major Name Soil and Water Sciences - Water Science Specialization

Major Code SWS

Degree Program Name Bachelor of Science

Undergraduate Innovation Academy Program No

Effective Term Earliest Available

Effective Year Earliest Available

Current Curriculum for Major SEMESTER ONE CREDITS

Select one: 3-4

AEB 2014

Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)

ECO 2013

Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)

ECO 2023

Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)

Select one: 4

BSC 2005

& 2005L

Biological Sciences

and Laboratory in Biological Sciences (Critical Tracking; State Core Gen Ed Biological and Physical Sciences)

BSC 2010

& 2010L

Integrated Principles of Biology 1

and Integrated Principles of Biology Laboratory 1 (Critical Tracking; State Core Gen Ed Biological and Physical Sciences)

State Core Gen Ed Composition; Writing Requirement 3

Elective4

Credits 14-15

SEMESTER TWO

MCB 2000

& 2000L Microbiology

and Microbiology Laboratory 4

SWS 2007 The World of Water (Gen Ed Physical Sciences) 3

Quest 1 (Gen Ed Humanities) 3

State Core Gen Ed Social and Behavioral Sciences 3

Elective2

Credits 15

SEMESTER THREE

AEC 3030C
or SPC 2608
Effective Oral Communication
or Introduction to Public Speaking
3
CHM 2045
& 2045L General Chemistry 1
and General Chemistry 1 Laboratory (Critical Tracking; Gen Ed Physical Sciences)
4
MAC 2311 Analytic Geometry and Calculus 1 (Critical Tracking; State Core Gen Ed Mathematics)
4
Gen Ed Composition; Writing Requirement 3
Elective2
Credits 16

SEMESTER FOUR

CHM 2046
& 2046L General Chemistry 2
and General Chemistry 2 Laboratory (Critical Tracking; Gen Ed Physical Sciences)
4
PHY 2004
& 2004L Applied Physics 1
and Laboratory for Applied Physics 1 (Critical Tracking; Gen Ed Physical Sciences)
4
Select one: 3-4
STA 2023
Introduction to Statistics 1 (Gen Ed Mathematics)

MAC 2312
Analytic Geometry and Calculus 2 (Gen Ed Mathematics)

State Core Gen Ed Humanities 3
Credits 14-15

SEMESTER FIVE

Select one: 4
CHM 2200
& 2200L
Fundamentals of Organic Chemistry
and Fundamentals of Organic Chemistry Laboratory

CHM 3120
& 3120L
Introduction to Analytical Chemistry
and Analytical Chemistry Laboratory

SWS 3022
& 3022L Introduction to Soils in the Environment
and Introduction to Soils in the Environment Laboratory (Gen Ed Biological and Physical Sciences;
Critical Tracking) 4
SWS 4451 Soil and Water Chemistry 3
Approved elective 3
Elective3
Credits 17

SEMESTER SIX

AEC 3033C Research and Business Writing in Agricultural and Life Sciences (Writing
Requirement; Critical Tracking) 3
SWS 4223 Environmental Biogeochemistry 3
SWS 4244 Wetlands 3
Approved electives 6

Credits 15
 SUMMER AFTER SEMESTER SIX
 SWS 4905
 or SWS 4941
 Individual Work
 or Full-time Practical Work Experience in Soil and Water Science
 1-3
 Approved elective 2
 Credits 3-5
 SEMESTER SEVEN
 FNR 4660
 or PUP 4224
 Natural Resource Policy and Economics (Critical Tracking)
 or Florida Environmental Politics
 3
 SWS 4602C Soil Physics (Gen Ed Physical Sciences; Critical Tracking) 3
 Approved electives 7
 Credits 13
 SEMESTER EIGHT
 SWS 4245 Water Resource Sustainability (Critical Tracking) 3
 SWS 4307 Ecology of Waterborne Pathogens 3
 Approved electives 7-8
 Credits 13-14
 Total Credits 120

APPROVED ELECTIVES

Course ListCode	Title	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	3
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	1-3
SWS 4911	Supervised Research in Soil and Water Science	3
SWS 4915	Honors Thesis Research in Soil and Water Science	3
SWS 4932	Special Topics in Soil and Water Science	1-3

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.

Proposed Curriculum Changes Replaced Elective - 2 Credit In Semester Three, With Quest 2 (General Education Social and Behavioral Sciences) 3 Credit Requirement; This change increased total credits in semester to seventeen (17) credits. Reduced semester one electives from 4 to 3.

UF Online Curriculum Change No

Pedagogical Rationale/Justification Incorporation of Quest 2 course into Major Curriculum Plan
Impact on Enrollment, Retention, Graduation No Impact On Students Who Are Currently In Major B/C They Will Be Under A Different Catalog Year

Assessment Data Review University Required Quest 2 Inclusion Into Eight (8) Semester Plan. Reviewed Our SLO and Program Goal Data, No Changes Needed.

Academic Learning Compact and Academic Assessment Plan None
Catalog Copy Yes

2021 – 2022 BS – SWS–WS – Degree Program

SEMESTER ONE	
Select one:	
AEB 2014	Economic Issues, Food and You (Gen Sciences)
ECO 2013	Principles of Macroeconomics (Gen Sciences)
ECO 2023	Principles of Microeconomics (Gen Sciences)
Select one:	
BSC 2005	Biological Sciences
†& 2005L	†and Laboratory in Biological Science Core Gen Ed Biological and Physical Integrated Principles of Biology 1
BSC 2010	Integrated Principles of Biology 1
†& 2010L	†and Integrated Principles of Biology Tracking ; State Core Gen Ed Biol
State Core Gen Ed Composition ; Writing Requirement	
Elective	
	Credits
SEMESTER TWO	
MCB 2000	Microbiology
†& 2000L	†and Microbiology Laboratory
SWS 2007	The World of Water (Gen Ed Physi
Quest 1 (Gen Ed Humanities)	
State Core Gen Ed Social and Behavioral Sciences	
Elective	
	Credits
SEMESTER THREE	
AEC 3030C or SPC 2608	Effective Oral Communication or Introduction to Public Speaking
CHM 2045	General Chemistry 1
†& 2045L	†and General Chemistry 1 Laborato Physical Sciences)
MAC 2311	Analytic Geometry and Calculus 1 (Gen Ed Mathematics)
Gen Ed Composition; Writing Requirement	
Quest 2 (Gen Ed Social and Behavioral Science)	
	Credits
SEMESTER FOUR	
CHM 2046	General Chemistry 2
†& 2046L	†and General Chemistry 2 Laborato Physical Sciences)
PHY 2004	Applied Physics 1
†& 2004L	†and Laboratory for Applied Physics Ed Physical Sciences)
Select one:	
STA 2023	Introduction to Statistics 1 (Gen Ed
MAC 2312	Analytic Geometry and Calculus 2 (
State Core Gen Ed Humanities	
	Credits
SEMESTER FIVE	
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CHM 2200	Fundamentals of Organic Chemistr
†& 2200L	†and Fundamentals of Organic Che
CHM 3120	Introduction to Analytical Chemistry
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SWS 3022	Introduction to Soils in the Environn
†& 3022L	†and Introduction to Soils in the Env

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Approved elective	
Elective	
	Credits
SEMESTER SIX	
AEC 3033C	Research and Business Writing in / Writing Requirement; Critical Trac
SWS 4223	Environmental Biogeochemistry
SWS 4244	Wetlands
Approved electives	
	Credits
SUMMER AFTER SEMESTER SIX	
SWS 4905	Individual Work
or SWS 4941	or Full-time Practical Work Experier
Approved elective	
	Credits
SEMESTER SEVEN	
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or PUP 4224	or Florida Environmental Politics
SWS 4602C	Soil Physics (Gen Ed Physical Scie
Approved electives	
	Credits
SEMESTER EIGHT	
SWS 4245	Water Resource Sustainability (Cri
SWS 4307	Ecology of Waterborne Pathogens
Approved electives	
	Credits
	Total Credits

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EES 4201	Water Chemistry	3
EES 4401	Public Health Engineering	3
FAS 4305C	Introduction to Fishery Science	3
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	1-3
SWS 4911	Supervised Research in Soil and Water Science	3
SWS 4915	Honors Thesis Research in Soil and Water Science	3
SWS 4932	Special Topics in Soil and Water Science	1-3
Course List		