

Change Major

If Gen Ed requirements are changed a separate Gen Ed Checklist form must accompany this form.

Major Name:

Horticulture

Degree:

Bachelor of Science

Effective Catalog Year:

2018-2019

- Change Major Name to: HORT
- Change Degree to: Bachelor of Science
- Change Curriculum Requirements
- Change General Education Requirements
- Add, Change, or Delete Concentration(s)
- Add, Change, or Delete Emphasis Area(s)

Curriculum Map:

OFFICIAL HORT Curriculum Map 2018-19
Proposed March
2017-20170306160319.doc

Description: HORT Curriculum Map 2018-19

Additional Information:

Description:

Summary/Explanation

Add PES 4550 Seminar (1 cr.) as a required course for HORT majors and remove 1 cr. Elective in Junior year.

Rationale for Change Major

- Strengthen Program Requirement(s)
- Alignment of Student Learning Outcomes
- Alternative Delivery of Content
- Improve Time to Degree
- Evolution of the Discipline
- Changing Prerequisites
- Address DWF Rates
- General Education Modifications
- Other (Please specify.)

Form

User ID: jfaust **Name:** James Faust
Date: 03/06/2017 **Number:** 30135

Paula Gudelski March 29, 2017
Chair, Department Curriculum Committee Date

Dawn Ryland 3/29/17
Department Chair Date

Ken Deitzel 4/20/17
Chair, College Curriculum Committee Date

Jan A. Bertrand 4/20/17
College Dean Date

Director, Calhoun Honors College Date

John D. Stiff 5/5/2017
Chair, Undergraduate Curriculum Committee Date

Chair, Graduate Curriculum Committee Date

Robert W. Jones 8/24/17
Provost Date

President Date

Horticulture 2018-19

Freshman Year

First Semester			Second Semester		
HORT 1010	Intro. to Hort.	3	BIOL 1040	General Biology II	3
BIOL 1030	Gen. Biology I	3	BIOL 1060	General Biology Lab II	1
BIOL 1050	Gen. Bio. Lab I	1	ENGL 1030	Accelerated Composition	3
CH 1010	Gen. Chem. I	4	CH 1020	Gen. Chem. II	4
Arts & Humanities (Non-Lit) Requirement ¹		3	MATH 1010 ²	Essential Math	3
Elective		1	Social Science Requirement ¹		3
Semester Hours: 15			Semester Hours: 17		

Sophomore Year

First Semester			Second Semester		
HORT 2100/2101	Growing Garden Plants in the Fall	3	HORT 2110/2111	Growing Garden Plants in the Spring	3
HORT 3030/3031	Landscape Plants	3	PES 2020	Soils	4
MATH 1020 ²	Intro. to Math Analysis	3	Business Requirement ³		3
Plant Biology Requirement ¹		4	Arts and Humanities (Lit) Requirement ¹		3
Social Science Requirement ¹		3	Elective		2
Semester Hours: 16			Semester Hours: 15		

Summer

HORT 2710	Internship ⁴	3	or	HORT 4710	Advanced Internship ⁴	3
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Junior Year

First Semester			Second Semester		
HORT 3080	Sustainable Landscape Garden. Design	3	BIOL 4010	Plant Physiology	3
HORT Specialization Requirement ³		3	BIOL 4020	Plant Physiology Lab	1
Related Science Requirement ³		3	HORT 4040	Plant Propagation	3
Oral Communications Requirement ¹		3	HORT 4050	Plant Propagation Tech. Lab	1
Business Requirement ¹		3	HORT Specialization Requirement ³		3
			Related Science Requirement ³		3
			Elective PES 4550 Seminar		1
Semester Hours: 15			Semester Hours: 15		

Senior Year

First Semester			Second Semester		
HORT 4090	Capstone	3	HORT Specialization Requirement ³		3
PES 4550	Seminar	1	Related Science Requirement ³		3
HORT Specialization Requirement ³		3	Business Requirement ³		3
Related Science Requirement ³		3	Elective		3
Elective		2			
Semester Hours: 12			Semester Hours: 12		

Total – 120 hrs

¹ See General Education Requirements. The Cross-Cultural Awareness and Science and Technology in Society General Education requirements must also be satisfied through these courses.

² STAT 2220 & 2300 or STAT 2300 & 3300 can be substituted for the MATH requirements.

³ See advisor. Select from approved departmental list.

⁴ Internship must be completed in one or two semesters. Internship may be done fall or spring or summer after completing HORT 303. Prior approval is required for internships and a 2.0 is required for registration.

* Horticulture majors must make a C or better in all HORT courses.

00203

Change Major

If Gen Ed requirements are changed a separate Gen Ed Checklist form must accompany this form.

Major Name:	Agricultural Education
Degree:	Bachelor of Science
Effective Catalog Year:	2017-2018
<input type="checkbox"/> Change Major Name to: AGED	Curriculum Map: <u>Agricultural Education 2016-2017 - Teaching Current-20170418134200.doc</u>
<input type="checkbox"/> Change Degree to: Bachelor of Science	Description: Current Curriculum Map
<input checked="" type="checkbox"/> Change Curriculum Requirements	Additional Information: <u>Agricultural Education 2017-2018 - Teaching New-20170418134200.doc</u>
<input type="checkbox"/> Change General Education Requirements	Description: New Curriculum Map
<input type="checkbox"/> Add, Change, or Delete Concentration(s)	
<input type="checkbox"/> Add, Change, or Delete Emphasis Area(s)	

Summary/Explanation

In order to offer AGED 2030, Teaching Agriscience, which is critical to the major, we are removing BT 2200, Biosystems Technology I because the content is no longer relevant.

AGED 3650 (Multiculturalism) will be replaced by AGED 2000 (Ag Applications of Educational Technology) due to needs of educational technologies and specific computer skills needed in the curriculum. We will embed multiculturalism into other courses in the Ag Ed curriculum to ensure that this content is addressed.

Rationale for Change Major

- Strengthen Program Requirement(s)
- Alignment of Student Learning Outcomes
- Alternative Delivery of Content
- Improve Time to Degree
- Evolution of the Discipline
- Changing Prerequisites
- Address DWF Rates
- General Education Modifications
- Other (Please specify.)

Form

User ID: apbyrd **Name:** Alex Byrd
Date: 04/18/2017 **Number:** 30220

Agricultural Education 2016-2017 – Teaching Emphasis Area

Freshman Year

First Semester			Second Semester		
AGED 1020	Agric. Ed. Freshman Seminar	1	AGED 1000	Orientation and Field Experience	1
AGED 3650	Multiculturalism in Agric. Ed.	3	AGM 2050	Principles of Fabrication	3
AVS 1500	Introduction to Animal Science	3	BIOL 1040	General Biology II	3
AVS 1510	Introduction to Animal Science Lab	1	BIOL 1060	General Biology Lab. II	1
BIOL 1030	General Biology I	3	ENGL 1030	Accelerated Composition	3
BIOL 1050	General Biology Lab. I	1	Social Science Requirement ²		6
HORT 1010	Horticulture	3			
Mathematics Requirement ¹		3			
Semester Hours: 18			Semester Hours: 17		

Sophomore Year

First Semester			Second Semester		
AGED 2010	Intro. To Agricultural Education	3	CH 1020	General Chemistry	4
AGED 2040	Applied Agriculture Calculations	3	EDSP 3700	Introduction to Special Education	3
BT 2200	Biosystems Technology I	3	PHYS 2070	General Physics I	3
CH 1010	General Chemistry	4	STAT 2300	Statistical Methods I	3
HORT 2120	Introduction to Turfgrass Culture	3	Arts and Humanities (Non-Lit.) and Science and Technology in Society Requirement ³		3
HORT 2130	Turfgrass Culture Lab.	1			
Semester Hours: 17			Semester Hours: 16-17		

¹ MATH 1010, 1020, 1060, 1080, or 2070

² See General Education Requirements. Three of these credit hours must also satisfy the Cross-Cultural Awareness Requirement. Note: ANTH 2010, GEOG 1030 or HIST 1730 is recommended to satisfy the Social Science Requirement.

³ Required of students in Communication Emphasis Area only.

⁴ See advisor.

Junior Year

First Semester			Second Semester		
AGED 3030	Mechanical Technology for Agriculture Education	3	AGED 4160	Ethics and Issues in Agriculture and the Food and Fiber System	3
AGM 2210	Surveying	3	EDF 3020	Educational Psychology	3
HORT3030	Landscape Plants	3	ENR 3020	Natural Resources Measurements	3
PES 2020	Soils	4	HORT 4040	Plant Propagation	3
Advanced Writing Requirement ¹		3	HORT 4050	Plant Propagation Techniques Lab.	1
			Oral Communication Requirement ²		3
Semester Hours: 16			Semester Hours: 16		

Senior Year

First Semester			Second Semester		
AGED 4000	Supervised Field Experience II	1	AGED 4060	Directed Teaching	12
AGED 4010	Instructional Methods in Ag. Ed.	3	AGED 4250	Teaching Agricultural Mechanics	2
AGED 4030	Principles of Adult/Ext. Education	3			
AGED 4230	Curriculum	3			
Arts and Humanities (Literature) Requirement ³		3			
EDLT 4980	Secondary Content Area Reading	3			
Semester Hours: 16			Semester Hours: 14		

Total – 130-131 Total Semester Hours

¹ ENGL 3040 or 3140 is recommended.

² See General Education Requirements. COMM 1500 or 2500 is recommended.

³ See General Education Requirements.

Agricultural Education 2018-2019 – Teaching Emphasis Area

Freshman Year

First Semester			Second Semester		
AGED 1020	Agric. Ed. Freshman Seminar	1	AGED 1000	Orientation and Field Experience	1
AGED 2000	Ag Applications of Ed Technology	3	AGM 2050	Principles of Fabrication	3
AVS 1500	Introduction to Animal Science	3	BIOL 1040	General Biology II	3
AVS 1510	Introduction to Animal Science Lab	1	BIOL 1060	General Biology Lab. II	1
BIOL 1030	General Biology I	3	ENGL 1030	Accelerated Composition	3
BIOL 1050	General Biology Lab. I	1	Social Science Requirement ²		6
HORT 1010	Horticulture	3			
Mathematics Requirement ¹		3			
Semester Hours: 18			Semester Hours: 17		

Sophomore Year

First Semester			Second Semester		
AGED 2010	Intro. To Agricultural Education	3	CH 1020	General Chemistry	4
AGED 2040	Applied Agriculture Calculations	3	EDSP 3700	Introduction to Special Education	3
PHYS 2070	General Physics I	3	AGED 2030	Teaching Agriscience	3
CH 1010	General Chemistry	4	STAT 2300	Statistical Methods I	3
HORT 2120	Introduction to Turfgrass Culture	3	Arts and Humanities (Non-Lit.) and Science and Technology in Society Requirement ³		3
HORT 2130	Turfgrass Culture Lab.	1			
Semester Hours: 17			Semester Hours: 16-17		

¹ MATH 1010, 1020, 1060, 1080, or 2070

² See General Education Requirements. Three of these credit hours must also satisfy the Cross-Cultural Awareness Requirement. Note: ANTH 2010, GEOG 1030 or HIST 1730 is recommended to satisfy the Social Science Requirement.

³ Required of students in Communication Emphasis Area only.

⁴ See advisor.

Junior Year

First Semester			Second Semester		
AGED 3030	Mechanical Technology for Agriculture Education	3	AGED 4160	Ethics and Issues in Agriculture and the Food and Fiber System	3
AGM 2210	Surveying	3	EDF 3020	Educational Psychology	3
HORT3030	Landscape Plants	3	ENR 3020	Natural Resources Measurements	3
PES 2020	Soils	4	HORT 4040	Plant Propagation	3
Advanced Writing Requirement ¹		3	HORT 4050	Plant Propagation Techniques Lab.	1
			Oral Communication Requirement ²		3
Semester Hours: 16			Semester Hours: 16		

Senior Year

First Semester			Second Semester		
AGED 4000	Supervised Field Experience II	1	AGED 4060	Directed Teaching	12
AGED 4010	Instructional Methods in Ag. Ed.	3	AGED 4250	Teaching Agricultural Mechanics	2
AGED 4030	Principles of Adult/Ext. Education	3			
AGED 4230	Curriculum	3			
Arts and Humanities (Literature) Requirement ³		3			
EDLT 4980	Secondary Content Area Reading	3			
Semester Hours: 16			Semester Hours: 14		

Total – 130-131 Total Semester Hours

¹ ENGL 3040 or 3140 is recommended.

² See General Education Requirements. COMM 1500 or 2500 is recommended.

³ See General Education Requirements.

000196

Delete Undergraduate Course

Delete a Course

Subject: PES-Plant and Env Sci
Number: 4010
Effective Term: Fall 2018
Title: Academic and Professional Dev

Delete Honors Course:

Last Term Course was taught: 201601

Brief Statement of Change Based on Assessment Results:
Assessment reveals students no longer require this course. The resources now available on campus meet the need.

Rationale for Delete Course

- Strengthen Program Requirement(s)
- Alignment of Student Learning Outcomes
- Alternative Delivery of Content
- Improve Time to Degree
- Evolution of the Discipline
- Changing Prerequisites
- Address DWF Rates
- General Education Modifications
- Other (Please specify.)

Form

User ID: pagudel Name: Paula Agudelo
Date: 03/06/2017 Number: 30148

000197

Paula Gudek

Chair, Department Curriculum Committee

March 29, 2017

Date

3/29/17

Date

Mary R. G. ...

Department Chair

4/20/17

Date

Kim ...

Chair, College Curriculum Committee

4/20/17

Date

Jean A. ...

College Dean

Director, Calhoun Honors College

5/5/2017

Date

John D. ...

Chair, Undergraduate Curriculum Committee

Date

Chair, Graduate Curriculum Committee

Robert ...

Provost

8/24/17

Date

President

Date

Change Major

If Gen Ed requirements are changed a separate Gen Ed Checklist form must accompany this form.

Major Name: Plant and Env Sciences
 Degree: Bachelor of Science
 Effective Catalog Year: 2018-2019

- Curriculum Map: Major - PES-20170331130525.pdf
 Description: PES curriculum map
- Change Major Name to: PES
 - Change Degree to: Bachelor of Science
 - Change Curriculum Requirements
 - Change General Education Requirements
 - Add, Change, or Delete Concentration(s)
 - Add, Change, or Delete Emphasis Area(s)
- Additional Information:
 Description:

Summary/Explanation

Eliminate PES 4010 Academic and Professional Development (1 cr) as a requirement for the major (all three concentrations). Assessment reveals students no longer require this course because they are obtaining the content in other places. The resources now available on campus meet the need. For the Agronomy Concentration, replace with 1 concentration requirement.

Rationale for Change Major

- Strengthen Program Requirement(s)
- Alignment of Student Learning Outcomes
- Alternative Delivery of Content
- Improve Time to Degree
- Evolution of the Discipline
- Changing Prerequisites
- Address DWF Rates
- General Education Modifications
- Other (Please specify.)

Form

User ID: pagudel Name: Paula Agudelo
 Date: 03/31/2017 Number: 30955

000199

March 29, 2017.

Paula Spudis
Chair, Department Curriculum Committee

Date

3/29/17

Jay Byland
Department Chair

Date

4/20/17

Kia D... [Signature]
Chair, College Curriculum Committee

Date

4/24/17

Jean A. Bertrand
College Dean

Date

John D. Wilfong
Director, Calhoun Honors College

Date

5/5/2017

Chair, Undergraduate Curriculum Committee

Date

Robert W. Jones
Chair, Graduate Curriculum Committee

Date

8/24/17

Provost

Date

President

Date

Plant and Environmental Sciences – Agronomy Concentration 2018-19

Freshman Year

First Semester			Second Semester		
BIOL 1030	General Biology ¹	3	BIOL 1040	General Biology II ¹	3
BIOL 1050	General Biology Lab. I ¹	1	BIOL 1060	General Biology Lab II ¹	1
CH 1010	General Chemistry	4	CH 1020	General Chemistry	4
MATH 1020	Intro. To Math. Analysis OR	3	ENGL 1030	Accelerated Composition	3
MATH 1060	Business Calculus I	4	STAT 2300	Statistical Methods I	3
PES 1040	Introduction to Plant Science	3	Arts and Humanities (Non-Lit.) Requirement ²		
Semester Hours: 14-15			Semester Hours: 17		

¹BIOL 1100 may substitute for BIOL 1030/1050 and BIOL 1110 may substitute for BIOL 1040/1060; BIOL 1100 and 1110 are recommended for students in the Agricultural Biotechnology Concentration.

²See General Education Requirements. PHIL 1030 is recommended for students in the Agricultural Biotechnology Concentration.

Sophomore Year

First Semester			Second Semester		
CH 2010	Survey of Organic Chemistry	3	AGRB 2050	Agriculture and Society	3
CH 2020	Survey of Organic Chemistry Lab.	1	COMM 1500	Intro. To Human Comm. OR	3
ENT (BIOL) 3010	Insect Biology and Diversity	4	COMM 2500	Public Speaking	3
PES 2020	Soils	4	GEN 3000	Fundamental Genetics	3
PLPA 3100	Principles of Plant Pathology	3	MICR 3050	General Microbiology	4
Semester Hours: 15			Semester Hours: 13		

Summer

ENT 4070	Applied Agricultural Entomology	3
PLPA 4110	Plant Disease Diagnosis	3

Semester Hours: 6

Junior Year

First Semester			Second Semester		
APEC 2020	Agricultural Economics OR	3	BIOL 4010	Plant Physiology	3
ECON 2110	Principles of Microeconomics	3	BIOL 4020	Plant Physiology Lab.	1
BCHM 3050	Essential Elements of Bioch.	3	ENGL 3150	Scientific Writing and Comm.	3
IPM 4010	Principles of Integrated Pest Mgt.	3	PES 4010	Acad. Prof. Dev. Concentration Req.	1
PES 4220	Major World Crops	3	PES 4050	Plant Breeding	3
	Concentration Requirement ¹	3	PES 4090	Biology of Invasive Plants	3
			PES 4550	Seminar	1
Semester Hours: 15			Semester Hours: 15		

Senior Year

First Semester			Second Semester		
PES 4450	Regulatory Issues and Policies	3	PES 3500	Practicum	3
PES 4900	Beneficial Soil Organisms in Plant Growth	3	PES 4520	Soil Fertility and Management	3
Arts and Humanities (Literature) Requirement ²			PES 4530	Soil Fertility Lab.	1
Concentration Requirement ¹			Concentration Requirement ¹		
Social Science Requirement ²					
Semester Hours: 15			Semester Hours: 13		

Total 123 -124 Total Semester Hours

¹ Select from a department-approved list.

² See General Education Requirements.

Rhonda Todd

From: Paula Agudelo
Sent: Monday, May 08, 2017 8:58 AM
To: Rhonda Todd
Cc: Shannon Clark
Subject: revised PES item
Attachments: PES item revised.pdf

Good morning, Rhonda.
I am attaching the revised PES item for the Agronomy concentration. We eliminated one course (PES 4010), but this concentration was short one credit without it. We fixed, as suggested, by replacing with an elective (conc. req.). The other two, stay as originally proposed.
I hope you find everything in order.

Thank you,
Paula

Paula Agudelo, Ph.D.
Associate Professor - Nematologist
Plant Nematology Lab, 219A BRC
Clemson University
Clemson, SC 29634
(864)656-5741

From: Rhonda Todd
Sent: Friday, May 5, 2017 9:40 AM
To: Andrew Levin; Becky Pearson; BLAKE SNIDER; Bruce Whisler; Burak Eksioglu; Calvin Becker; Cameron Bushnell; C Cooper; Carol Pelletier; Cecelia Hamby; Chad Sosolik; Christopher Kitchens; Christopher Vinson; Dale Layfield; Dana Simpson; Daniel Wueste; David Knox; Debbie Wright; Debra Sparacino; Donna Barrett; Hugh Spitler; Jack Wolf; Jason Lucas; Jeffrey Appling; Jessica Martin; John D. Griffin; John M. Coggeshall; Joseph Wilson - Clemson University (jrw6@clemson.edu); LeDon Wilson; Lee A. Crandall; Linda Tindal; Matthew Klein; Michael Sehorn; Melinda Spearman; Necole S Richardson; Pamela Dunston; Pamela Mack; Paula Agudelo; Penelope W Brunner; Reagan Blondeau; Rhonda Todd; Robert Kosinski; Robert Silance; Robert Wilmott; Roger Gomes; Shannon Clark; Shreya Shankar
Subject: MEETING REMINDER - APRIL MEETING MINUTES

Good morning,

Undergraduate Curriculum Committee will meet today at 1:30 PM in E304 Martin Hall. I have attached the April meeting minutes for your review. I apologize for the late send out.

Best Regards,
Rhonda
Rhonda Todd
Administrative Coordinator

Plant and Environmental Sciences Agricultural Biotechnology Concentration 2018-19

Freshman Year

First Semester			Second Semester		
BIOL 1030	General Biology ¹	3	BIOL 1040	General Biology II ¹	3
BIOL 1050	General Biology Lab. I ¹	1	BIOL 1060	General Biology Lab II ¹	1
CH 1010	General Chemistry	4	CH 1020	General Chemistry	4
MATH 1020	Business Calculus I OR	3	ENGL 1030	Accelerated Composition	3
MATH 1060	Calculus of One Variable I	4	STAT 2300	Statistical Methods I	3
PES 1040	Introduction to Plant Science	3	Arts and Humanities (Non-Lit.) Requirement ²		
Semester Hours: 14-15			Semester Hours: 17		

¹BIOL 1100 may substitute for BIOL 1030/1050 and BIOL 1110 may substitute for BIOL 1040/1060; BIOL 1100 and 1110 are recommended for students in the Agricultural Biotechnology Concentration.

²See General Education Requirements. PHIL 1030 is recommended for students in the Agricultural Biotechnology Concentration.

Sophomore Year

First Semester			Second Semester		
BIOL 3040	Biology of Plants	3	AGRB 2050	Agriculture and Society	3
CH 2010	Survey of Organic Chemistry	3	BIOL 3350	Evolutionary Biology	3
CH 2020	Survey of Organic Chemistry Lab.	1	COMM 1500	Intro. To Human Comm. OR	3
ENT 3010	Insect Biology and Diversity	4	COMM 2500	Public Speaking	3
PLPA 3100	Principles of Plant Pathology	3	GEN 3000	Fundamental Genetics	3
			MICR 3050	General Microbiology	4
			PES 4550	Seminar	1
Semester Hours: 14			Semester Hours: 17		

Junior Year

First Semester			Second Semester		
BCHM 3050	Essential Elements of Biochem.	3	BIOL 4010	Plant Physiology	3
ECON 2000	Economic Concepts or	3	BIOL 4020	Plant Physiology Lab.	1
ECON 2110	Principles of Microeconomics	3	ENGL 3150	Scientific Writing and Comm.	3
PES 3350	Agricultural Biotechnology	3	PES 4010	Academic and Professional Dev.	1
PES 4220	Major World Crops	3	PES 4050	Plant Breeding	3
	Social Science Requirement ¹	3	PES 4090	Biology of Invasive Plants	3
Semester Hours: 15			Semester Hours: 14 13		

Summer

PES 3400	Medical Botany	3
Semester Hours: 3		

Senior Year

First Semester			Second Semester		
PES 4450	Regulatory Issues and Policies	3	PES 3500	Practicum	3
PES 4900	Beneficial Soil Organisms in Plant Growth	3	Concentration Requirement ²		
Arts and Humanities (Literature) Requirement ¹					
Concentration Requirement ²					
Semester Hours: 15			Semester Hours: 12		
Total 121-122 120-121 Total Semester Hours					

¹ See General Education Requirements.

²Select from a department approved list. Courses to support proficiency in a foreign language also are encouraged.

Plant and Environmental Sciences – Soil and Water Science Concentration 2017-18

Freshman Year

First Semester			Second Semester		
BIOL 1030	General Biology ¹	3	BIOL 1040	General Biology II ¹	3
BIOL 1050	General Biology Lab. I ¹	1	BIOL 1060	General Biology Lab II ¹	1
CH 1010	General Chemistry	4	CH 1020	General Chemistry	4
MATH 1020	Intro. To Math. Analysis OR	3	ENGL 1030	Accelerated Composition	3
MATH 1060	Calculus of One Variable I	4	STAT 2300	Statistical Methods I	3
PES 1040	Introduction to Plant Science	3	Arts and Humanities (Non-Lit.) Requirement ²		3
Semester Hours: 14-15			Semester Hours: 17		

¹BIOL 1100 may substitute for BIOL 1030/1050 and BIOL 1110 may substitute for BIOL 1040/1060; ²See General Education Requirements.

Sophomore Year

First Semester			Second Semester		
CH 2010	Survey of Organic Chemistry	3	APEC 2050	Agriculture and Society	3
CH 2020	Survey of Organic Chemistry Lab.	1	COMM 1500	Intro. To Human Comm. OR	3
GEOL 1010	Physical Geology	3	COMM 2500	Public Speaking	3
GEOL 1030	Physical Geology Lab.	1	MICR 3050	General Microbiology	4
PES 2020	Soils	4	PHYS 2080	General Physics II	3
PHYS 2070	General Physics I	3	PHYS 2100	General Physics II Lab.	1
PHYS 2090	General Physics I Lab.	1	Semester Hours: 14		
Semester Hours: 16					

Junior Year

First Semester			Second Semester		
AGM 3010	Soil and Water Conservation	3	BIOL 4010	Plant Physiology and	3
PES 4220	Major World Crops	3	BIOL 4020	Plant Physiology Lab.	1
Concentration Requirement ¹		9	ENGL 3150	Scientific Writing and Comm.	3
			Concentration Requirement ¹		3
			PES 3150	Environment and Agric.	3
			PES 4010	Academic and Professional Dev.	1
			Social Science Requirement ²		3
Semester Hours: 15			Semester Hours: 17 16		

Senior Year

First Semester			Second Semester		
PES 3500	Practicum	3	PES (BE) 4080	Land Treatment of Wastewater and Sludges	3
PES 4030	Soil Genesis and Classification	2	PES 4900	Beneficial Soil Organisms in Plant Growth	3
PES 4550	Seminar	1	Concentration Requirement ¹		6
Applied Spatial Technology Requirement ³		3	Social Science Requirement ²		3
Arts and Humanities (Literature) Requirement ²		3			
Field Scale Environmental Mgt. Requirement ⁴		3			
Semester Hours: 15			Semester Hours: 15		

Total ~~123-124~~ 122-123 Total Semester Hours

¹ Select from a department-approved list.
² See General Education Requirements.
³AGM 4100, FOR 4330, GEOL 4210, or other course approved by advisor.
⁴AGM 4020, GEOL 4090, or other course approved by advisor.



MEMO

TO: Undergraduate University Curriculum Committee

FROM: Paula Agudelo, Dept. Curriculum Committee Chair
 Department of Plant and Environmental Sciences

A handwritten signature in blue ink that reads "Paula Agudelo M.".

CC: Gregory Reighard, Interim Chair
 Department of Plant of Environmental Sciences

Jean Bertrand, Associate Dean for Undergraduate Studies
 College of Agriculture, Forestry and Life Sciences

DATE: 21 April, 2017

SUBJECT: Notification of changes to courses listed in footnotes

**Department
 of Plant and
 Environmental
 Sciences**

College of
 AGRICULTURE,
 FORESTRY & LIFE
 SCIENCES

210 Biosystems
 Research Complex
 864-656-5741
 pagudel@clermson.edu

The Department of Plant and Environmental Sciences requests the following changes to the courses used to fulfill major requirements (listed in footnotes in the Catalog).

B.S. in Horticulture:

footnote 5, Horticulture Specialization Requirement:

Remove: FOR 4800 Selected Topics in Urban Forestry

footnote 6, Related Science Requirement:

Remove: WFB 4620 Wetland Wildlife Biology

Add: AGM 4100 Precision Agriculture Technology

CH 2010 Survey of Organic Chemistry

FOR 2060 Forestry Ecology

FOR 4340 Geographic Information Systems for Natural Resources

PES 3150 Environment and Agriculture

PES 3350 Agricultural Biotechnology

PES 3400 Medical Botany

PES 4030 Soil Genesis and Classification

PES 4220 Major World Crops

PES 4460 Soil Management

PES 4760 Sustainable Food Systems

PES 4900 Beneficial Soil Organisms in Plant Growth

B.S. in Plant and Environmental Sciences:

Concentration Requirement footnotes for all 3 concentrations:

Add: PES 4960/PES 4970 Selected Topics in Creative Inquiry/Lab

Soil and Water Science, Footnote 4, Field Scale Environmental Management Requirement

Add: GEOL 3000 Environmental Geology
EES 4140 Radioecology
PES 4460 Soil Management

B.S. in Turfgrass:

Footnote 4, Horticulture Specialization Requirement:

Add: HORT 4040 Plant Propagation

Footnote 5, Soil Science Requirement:

Correct entire footnote to simply read: "Select PES 4850 or 4900"

PES 4850 Environmental Soil Chemistry *or*
PES 4900 Beneficial Soil Organisms in Plant Growth