

## Cover Sheet: Request 13665

### Update to HOS-Plant Molecular and Cellular Biology 8-semester plan

#### Info

Process	Major Curriculum Modify Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Gerardo Nunez Villegas g.nunez@ufl.edu
Created	2/23/2019 12:03:41 PM
Updated	2/26/2019 11:16:38 AM
Description of request	Update HOS-PMB 8-semester plan to accommodate a recent update on a required course.

#### Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CALS - Horticultural Sciences 514923000	Christine Chase		2/23/2019
No document changes					
College	Approved	CALS - College of Agricultural and Life Sciences	Joel H Brendemuhl	Approved by Joel H. Brendemuhl.	2/25/2019
Plant Molecular and Cellular Biology - 8 semester plan.docx					
Associate Provost for Undergraduate Affairs	Approved	PV - Associate Provost for Undergraduate Affairs	Casey Griffith		2/26/2019
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			2/26/2019
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 13665

## Info

**Request:** Update to HOS-Plant Molecular and Cellular Biology 8-semester plan

**Description of request:** Update HOS-PMB 8-semester plan to accommodate a recent update on a required course.

**Submitter:** Gerardo Nunez Villegas g.nunez@ufl.edu

**Created:** 2/23/2019 11:51:01 AM

**Form version:** 1

## Responses

**Major Name** Plant Molecular and Cellular Biology

**Major Code** PMB

**Degree Program Name** Horticultural Science

**Undergraduate Innovation Academy Program** No

**Effective Term** Earliest Available

**Effective Year** Earliest Available

**Current Curriculum for Major** Semester One

BSC 2010 & 2010L - Integrated Principles of Biology and Integrated Principles of Biology Laboratory 1 (Critical Tracking; State Core Gen Ed Biological and Physical Sciences) (4)

IDS 1161 - What is the Good Life (Gen Ed Humanities) (3)

MAC 1147 - Precalculus Algebra and Trigonometry (State Core Gen Ed Mathematics) (4)

State Core Gen Ed Composition; Writing Requirement (3)

Semester Two

BSC 2011 & 2011L - Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (Critical Tracking; Gen Ed Biological Sciences and Physical Sciences) (4)

Select one: (4-5)

PHY 2053 & 2053L - Physics 1 and Laboratory for Physics 1 (Critical Tracking; Gen Ed Biological Sciences and Physical Sciences)

PHY 2048 & 2048L - Physics with Calculus 1 and Laboratory for Physics with Calculus 1 (Critical Tracking; Gen Ed Biological Sciences and Physical Sciences)

State Core Gen Ed Social and Behavioral Sciences (3)

Elective

(3)

Semester Three

AEC 3033C - Research and Business Writing in Agricultural and Life Sciences (Writing Requirement) (3)

CHM 2045 & 2045L - General Chemistry 1 and General Chemistry 1 Laboratory (Critical Tracking; Gen Ed Biological Sciences and Physical Sciences) (4)

MAC 2311 - Analytic Geometry and Calculus 1 (Critical Tracking; Gen Ed Mathematics) (4)

State Core Gen Ed Humanities (3)

Elective

(2)

Semester Four

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)

AEC 3030C - Effective Oral Communication (3)

CHM 2046 & 2046L - General Chemistry 2 and General Chemistry 2 Laboratory (Critical Tracking) (4)

Gen Ed Composition; Writing Requirement (3)  
Elective

(3)

Semester Five

AGR 3303 – Genetics (3)

CHM 2210 - Organic Chemistry 1 (3)

HOS 3020 - Principles of Horticultural Crop Production (3)

HOS 3305 - Introduction to Plant Molecular Biology (3)

HOS 4313C - Laboratory Methods in Plant Molecular Biology (2)

Semester Six

CHM 2211 & 2211L - Organic Chemistry 2 and Organic Chemistry Laboratory (5)

HOS 4933 - Professional Development in Horticulture (1)

Approved electives (10)

Semester Seven

BCH 3025 or BCH 4024 - Fundamentals of Biochemistry or Introduction to Biochemistry and Molecular Biology (4)

HOS 4304 - Horticultural Physiology (3)

PLP 3002C -Fundamentals of Plant Pathology (4)

Approved elective (3)

Semester Eight

AGR 4320 - Plant Breeding (3)

MCB 3020 & 3020L - Basic Biology of Microorganisms and Laboratory for Basic Biology of Microorganisms (4)

Approved electives (9)

**Proposed Curriculum Changes** - Replace HOS3020 - Principles of Horticultural Crop Production (3 credits) with HOS3020C - Principles of Horticultural Crop Production (4 credits).  
- Change approved electives in semester six from 10 credits to 9 credits.

**Pedagogical Rationale/Justification** HOS3020 (3 credits) was recently updated to HOS3020C (4 credits) to increase and enhance experiential learning in the course and in the major. The proposed change updates our 8-semester plan to accommodate this course update.

**Impact on Enrollment, Retention, Graduation** No impacts on enrollment, retention, and graduation rates are expected.

**Assessment Data Review** Student evaluations for HOS3020 have consistently called for more hands-on activities in the teaching garden. HOS3020 (3 credits) was updated to HOS3020C (4 credits) to facilitate more experiential learning. The proposed change updates our 8-semester plan to accommodate this course update.

**Academic Learning Compact and Academic Assessment Plan** The proposed change does not affect the Academic Learning Compact for the program.

HORTICULTURAL SCIENCE | PLANT MOLECULAR AND CELLULAR BIOLOGY

Semester One		Credits
<a href="#"><u>BSC 2010</u></a> & <a href="#"><u>2010L</u></a>	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory 1 ( <b>Critical Tracking</b> ; State Core Gen Ed Biological and Physical Sciences)	4
<a href="#"><u>IDS 1161</u></a>	What is the Good Life (Gen Ed Humanities)	3
<a href="#"><u>MAC 1147</u></a>	Precalculus Algebra and Trigonometry ( <a href="#"><u>State Core Gen Ed Mathematics</u></a> )	4
<a href="#"><u>State Core Gen Ed Composition</u></a> ; Writing Requirement		3
<b>Credits</b>		<b>14</b>
Semester Two		
<a href="#"><u>BSC 2011</u></a> & <a href="#"><u>2011L</u></a>	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 ( <b>Critical Tracking</b> ; Gen Ed Biological Sciences and Physical Sciences)	4
Select one:		4-5
<a href="#"><u>PHY 2053</u></a> & <a href="#"><u>2053L</u></a>	Physics 1 and Laboratory for Physics 1 ( <b>Critical Tracking</b> ; Gen Ed Biological Sciences and Physical Sciences)	
<a href="#"><u>PHY 2048</u></a> & <a href="#"><u>2048L</u></a>	Physics with Calculus 1 and Laboratory for Physics with Calculus 1 ( <b>Critical Tracking</b> ; Gen Ed Biological Sciences and Physical Sciences)	
<a href="#"><u>State Core Gen Ed Social and Behavioral Sciences</u></a>		3
Elective		3
<b>Credits</b>		<b>14-15</b>
Semester Three		
<a href="#"><u>AEC 3033C</u></a>	Research and Business Writing in Agricultural and Life Sciences (Writing Requirement)	3

<u>CHM 2045</u> & <u>2045L</u>	General Chemistry 1 and General Chemistry 1 Laboratory ( <b>Critical Tracking</b> ; Gen Ed Biological Sciences and Physical Sciences)	4
<u>MAC 2311</u>	Analytic Geometry and Calculus 1 ( <b>Critical Tracking</b> ; Gen Ed Mathematics)	4
<u>State Core Gen Ed Humanities</u>		3
Elective		2
<b>Credits</b>		<b>16</b>
<b>Semester Four</b>		
Select one:		3-4
<u>AEB 2014</u>	Economic Issues, Food and You (Gen Ed Social and Behavioral Sciences)	
<u>ECO 2013</u>	Principles of Macroeconomics (Gen Ed Social and Behavioral Sciences)	
<u>ECO 2023</u>	Principles of Microeconomics (Gen Ed Social and Behavioral Sciences)	
<u>AEC 3030C</u>	Effective Oral Communication	3
<u>CHM 2046</u> & <u>2046L</u>	General Chemistry 2 and General Chemistry 2 Laboratory ( <b>Critical Tracking</b> )	4
Gen Ed Composition; Writing Requirement		3
Elective		3
<b>Credits</b>		<b>16-17</b>
<b>Semester Five</b>		
<u>AGR 3303</u>	Genetics	3
<u>CHM 2210</u>	Organic Chemistry 1	3
HOS 3020C	Principles of Horticultural Crop Production	<del>3</del> 4
<u>HOS 3305</u>	Introduction to Plant Molecular Biology	3

<u>HOS 4313C</u>	Laboratory Methods in Plant Molecular Biology	2
<b>Credits</b>		<b><u>1415</u></b>
<b>Semester Six</b>		
<u>CHM 2211</u> & <u>2211L</u>	Organic Chemistry 2 and Organic Chemistry Laboratory	5
<u>HOS 4933</u>	Professional Development in Horticulture	1
Approved electives		<u>409</u>
<b>Credits</b>		<b><u>1615</u></b>
<b>Semester Seven</b>		
<u>BCH 3025</u> or <u>BCH 4024</u>	Fundamentals of Biochemistry or Introduction to Biochemistry and Molecular Biology	4
<u>HOS 4304</u>	Horticultural Physiology	3
<u>PLP 3002C</u>	Fundamentals of Plant Pathology	4
Approved elective		3
<b>Credits</b>		<b>14</b>
<b>Semester Eight</b>		
<u>AGR 4320</u>	Plant Breeding	3
<u>MCB 3020</u> & <u>3020L</u>	Basic Biology of Microorganisms and Laboratory for Basic Biology of Microorganisms	4
Approved electives		9