

Bachelor of Science in Horticultural Sciences

Specialization in Plant Molecular and Cell Biology

Course of Study

FIRST YEAR

Fall Semester			Spring Semester		
Course		Hours	Course		Hours
BSC 2010	* ^w Integrated Principles of Biology 1 (GE-B/P)	3	BSC 2011	* Integrated Principles of Biology 2	3
BSC 2010L	* ^w Integrated Principles of Biology 1 Lab (GE-B/P)	1	BSC 2011L	* Integrated Principles of Biology 2 Lab	1
IUF 1000	^w What is the Good Life	3	PHY 2053	* Physics I (or PHY 2048)	3-4
MAC 1147	^w Precalculus: Alg. and Trig.	4	PHY 2053L	* Physics I Lab (or PHY 2048L)	1
_____	Composition (GE-C) (WR)	3	_____	+ Approved electives	3
			_____	Social & Behavioral Sciences (GE-S)	3
	Total	14		Total	14-15

SECOND YEAR

Fall Semester			Spring Semester		
Course		Hours	Course		Hours
MAC 2311	* ^w Analytic Geometry & Calculus 1	4	CHM 2046	* General Chemistry 2	3
CHM 2045	* General Chemistry 1	3	CHM 2046L	* General Chemistry 2 Lab	1
CHM 2045L	* General Chemistry 1 Lab	1	AEB 2014	^w Economic Issues, Food, & You (or ECO 2013 or ECO 2023)	3-4
AEC 3033C	^w Research and Business Writing	3	AEC 3030C	Effective Oral Communication	3
_____	Humanities (GE-H)	3	_____	Composition (GE-C) (WR)	3
_____	+ Approved electives	2	_____	+ Approved electives	3
	Total	16		Total	16-17

THIRD YEAR

Fall Semester			Spring Semester		
Course		Hours	Course		Hours
HOS 3020	Principles of Horticultural Crop Production	3	CHM 2211	Organic Chemistry 2	3
CHM 2210	Organic Chemistry 1	3	CHM 2211L	Organic Chemistry Lab	2
HOS 3305	Intro. to Plant Molecular Biology	3	HOS 4933	Professional Development in Horticulture	1
HOS4313C	Lab Methods in Plant Mol. Biology	2	_____	+ Approved electives	10
AGR 3303	Genetics	3		Total	16
	Total	14			

FOURTH YEAR

Fall Semester			Spring Semester		
Course		Hours	Course		Hours
HOS 4304	Horticultural Physiology	3	MCB 3020	^w Basic Biology of Microorganisms	3
PLP 3002C	Fundamentals of Plant Pathology	4	MCB 3002L	Basic Biology of Microorganisms Lab	1
BCH 3025	^w Fundamentals of Biochemistry (or BCH 4024)	4	AGR 4320	Plant Breeding	3
_____	+ Approved electives	3	_____	+ Approved electives	9
	Total	14		Total	16

* Critical tracking courses

^w Online or blended sections available

+ Must be approved by advisor

For more information visit: hos.ifas.ufl.edu