BIOLOGY, B.S. - PLANT SCIENCES OPTION

This option is designed for students who wish to specialize in the study of plants in preparation for graduate study or for careers in plant sciences such as plant propagation, genetic plant engineering, horticulture, forestry, agriculture, plant ecology or the floral industry.

Major in Biology, BS

Code	Title	Hours
CORE COURSES (C- or higher required)		1
Foundations of Biology - See Appendix 1		
BIOL 211	Concepts of Zoology	
BIOL 221	Concepts of Botany	
BIOL 343	Principles of Ecology & Evolution	
BIOL 362	Cell and Developmental Biology	
BIOL 364	Foundations of Genetics & Molecular Biology	
BIOL 472	Seminar In Biology	
PRACTICAL EXPERIENCE - Choose 1 of the following:		1
BIOL 300	Co-Op Ed Experience in Biol	
BIOL 498	Independent Study	
BIOL 489	Honors Course	
BIOL 499	Departmental Honors	
Biology majors must earn grades of C- (C minus) or higher in all core courses.		
Option in Plant Sciences - See separate block		
Total Hours		**2**

Appendix 1. Foundations of Biology

Code	Title	Hours
Foundations of Biology C- or Higher		0
BIOL 101	Foundations of Biology	

Concentration in Plant Sciences

Code	Title	Hours
In addition to Biology Core Courses, the Plant Sciences Concentration requires completion of a course sequence in Botany, Horticultural Science, Plant Biotech and Molecular, or Plant Ecology and the Environment in order to complete the required 52 credits for major.		
UNDECLARED TRACK - DEFAULT TO BOTANY COURSE SEQUENCE		
In addition to Biology Core Courses, the Plant Sciences Concentration requires completion of a course sequence in Botany, Horticultural Science, Plant Biotech and Molecular, or Plant Ecology and the Environment in order to complete the required 52 credits for major. You have not selected a track, so have been placed into the Botany track as a default. Click here to Access the Academic Program Change Request to declare your track.		
Advanced Plant Science Electives - Choose 3 of the following:		0
BIOL 325	Plant Systematics	
BIOL 327	Horticultural Science	
BIOL 329	Plant-Insect Interactions	
BIOL 424	Mycology	
Biochemistry - Choose 1 of the following:		0
BIOL 324	Plant Biochemistry	
CHEM 326	Biochemistry 1	
Biometry (BIOL 375 recommended) - Choose 1 of the following:		3-4
BIOL 375	Biometry	
MATH 235	Survey of Statistics	
PSYC 211	Principles of Statistics and Experimental Design 1	
Biology Electives - Choose 7 hours from:		7
Any 3-level BIOL course(s)		
Any 4-level BIOL course(s)		
Total Hours		**10-11**

Req Related for Biology, BS

Code	Title	Hours
For Biology Majors the G2 block of the Liberal Arts Core will be fulfilled by your required related coursework.		
CHEMISTRY		
A C- or higher in CHEM 111 and 112 is a pre-requisite for CHEM 235. A C- or higher in CHEM 231 is a pre-requisite for CHEM 232. Students interested in graduate or professional school should take CHEM 231 and 232.		
CHEM 111	Introductory Chemistry 1	0
CHEM 112	Introductory Chemistry 2	0
Organic Chemistry - Choose 1 of the following options 1-2:		0
Option 1. Short-sequence (recommended)		
CHEM 235	Organic Chemistry	
Option 2. Long-sequence		
CHEM 231	Organic Chemistry 1	
CHEM 232	Organic Chemistry 2	
COMPUTATIONAL		
Calculus (MATH 151 recommended) - Choose 1 of the following:		4-5
MATH 151	Calculus for Management	
MATH 161	Calculus 1	
MATH 163H	Honors Calculus 1	
PHYSICS		
undefined - Choose 1 of the following options 1-2:		0
Option 1. Physics with Algebra		
PHYS 131	Physics 1 with Algebra	
PHYS 132	Physics 2 with Algebra	
Option 2. Physics with Calculus		
PHYS 231	Physics 1 with Calculus	
PHYS 232	Physics 2 with Calculus	
Total Hours		**4-5**