Biology - Plant Science Track

Common Program Prerequisites

			Credits	Grade
BSC2010C	**Biology I (GEP)**	(PR: High school biology)	4	
(A min. grade of "C" (2.0) is required in BSC2010C subsequent biology courses)				
BSC2011C	**Biology II**	(PR: A "C" (2.0) or better in BSC 2010C)	4	
(A min. grade of "C" (2.0) is required in BSC2011C subsequent biology courses)				
CHM2045C	**Chemistry Fundamentals I (GEP)**		4	
	(PR: Chemistry Placement Exam. And C (2.0) or better in MAC 1105)			
CHM2046	**Chemistry Fundamentals II**		3	
	(PR: A min. grade of "C" (2.0) is required in CHM2045C and MAC1105C)			
CHM2046L	**Chemistry Fundamentals Lab**	(PR/CR: CHM2046)	1	
PHY2053	**College Physics I**	(PR: MAC1105C & MAC1114C)	3	
PHY2053L	**College Physics I Lab**	(PR/CR: PHY2053 w/ a "C" or better)	1	
PHY2054	**College Physics II**	(PR: PHY2053 w/ a "C" or better)	3	
PHY2054L	**College Physics II Lab**	(PR/CR: PHY2054 w/ a "C" or better)	1	
STA2023	**Statistical Methods I (GEP)**		3	
	(PR: MGF1106 or any other MAC course)			
MAC2233	**Concepts of Calculus**		3	
	(PR: Math Placement Exam or MAC1140C w/ A "C" or better)			

Core Requirements: Basic Level (8-9 credits)

CHM2210	**Organic Chemistry I**		3	
	(PR: A "C" (2.0) or better in CHM 2046)			
CHM2211	**Organic Chemistry II**		3	
	(PR: A "C" (2.0) or better in CHM 2210)			
CHM2211L	**Organic Laboratory Techniques I**		2	
	(PR: A C (2.0) or better in both CHM 2046L and CHM 2210)			

(CHM2205 followed by CHM3120 and CHM3120L can also be taken to meet this requirement)

Biology Core Requirements: Advanced Level

			Credits	Grade
PCB3044*	**Principles of Ecology**		3	
	(PR: CHM2045 and a "C" or better in both BSC2010C & BSC2011C)			
PCB3063*	**Genetics**		3	
	(PR: CHM2046C and a "C" or better in BSC2010C)			
PCB3023*	**Molecular Cell Biology**		3	
	(PR: CHM2210 or CHM2205 and a "C" or better in BSC2010C & PCB3063)			
PCB4683*	**Evolutionary Biology**		4	
	(PR: JR Standing & a "C" or better in PCB3063)			

UCF GPA: _____ Major GPA: _____ Restricted Elective: _____

Biology Laboratories Courses

			Credits	Grade
Section A	Complete at least 1 Core Lab from the following:			
PCB3044L*	**Principles of Ecology Lab**		1	
	(PR/CR: PCB3044)			
PCB3063L*	**Genetics Laboratory**		1	
PCB4683L*	**Evolutionary Biology Lab**		1	
Section B	Complete at least 1 Core/Non-Core: from above or designated with †			

Upper Division Required and Restricted Electives (22 credits)

(Must have a "C" or better in each prerequisite course)

Required Elective:

BOT3015*	Principles of Plant Science (P)	3

Group A: Choose 1 course from Group A

BOT4922*	Plant Science Capstone	2
BOT4970H	Biology Honor's Thesis	3
BOT4941*	Arboretum Garden Internship	3
BSC4941*	Arboretum Project Internship	3

Group B: Choose 2 courses from Group B

BOT4223C*†	Plant Anatomy (P)	4
BOT4282C*†	Plant Microtechniques	4
BOT4303C*†	Plant Kingdom (P)	4
BOT4503C*†	Plant Physiology (P)	4
BOT4530C*†	Plant Genomics and Biochemistry (P)	4
BOT4713C*†	Plant Taxonomy (P)	5
BOT4912*	Directed Independent Resrarch	4
BSC3453C*	Bio Research Methods and Exp. Design	3

Group C: Complete at least (6 hrs) from the following:

BOT3018C*†	Culinary Botany Across the Cultures (P)	4
BOT3802*	Ethnobotany (P)	3
BOT4430C*†	Biology of Fungi (P)	4
BOT4850*	Medical Botany (P)	3
BSC4330*	Invasion Biology	3
ENY3571*†	Honey Bee Biology and Beekeeping (A)	3
PCB3354*	Tropical Ecology and Conservation	3
PCB4462*	GIS for Biologists and Ecologists	3

Independent Study/Directed Research: May include a maximum of 4hrs towards restricted electives- (Completed with Biology Faculty)

Biology Major B.S. – Plant Science Track
Upper Division Restricted Electives (22 credits)
(Must have a "C" or better in each prerequisite course)

RESTRICTED COURSES

Additional Biology Electives

Complete at least (4 hrs) from the following:

ANT3550C - Primatology	3	
BCH4024 - Medical Biochemistry	4	
BCH4053 - Biochemistry I	3	
BCH4054 - Biochemistry II	3	
BOT3015* - Principles of Plant Science (P)	3	
BOT3018C*† - Cul Botany Across the Cultures (P)	4	
BOT3802* - Ethnobotany (P)	3	
BOT4223C*† - Plant Anatomy (P)	4	
BOT 4282C*† - Plant Microtechniques	4	
BOT4303C*† - Plant Kingdom (P)	4	
BOT4430C*† - Biology of Fungi (P)	4	
BOT4503C*† - Plant Physiology (P)	4	
BOT4530C*† - Plant Genomics and Biochem (P)	4	
BOT4713C*† - Plant Taxonomy (P)	5	
BOT4850* - Medical Botany (P)	3	
BOT4922* - Plant Science Capstone	2	
BOT 4970H - Honors Undergrad. Thesis		
BSC3052* - Conservation Biology	3	
BSC3312* - Principles of Marine Biology	3	
BSC3453C* - Bio Res. Meth & Exp Design	3	
BSC 4310* - Service Learning Marine Conserv	3	
BSC4312C*† - Advanced Marine Biology	4	
BSC4330* - Invasion Biology	3	
BSC4445C*† - Genomics Laboratory	4	
BSC4456C* - Programming for Biologists	3	
BSC4473C* - Scientific Diving	4	
BSC4821* - Biogeography	4	
BSC4861L* - Urban Ecological Field Studies	3	
BSC4910C* - Group Effort Applied Research in Bio	4	
BSC4927* - Sci and Public Engage for Bio Majors	3	
ENY3571*† - Honey Bee Biology and Beekeeping (A)	3	
ENY4004C*† - General Entomology (A)	4	
MCB3020C - General Microbiology	5	
OCE3008* - Oceanography	3	
PAZ4234* - Zoo and Aquarium Management	3	
PCB3044L* - Principles of Ecology Laboratory	1	
PCB3063L* - Genetics Laboratory	1	
PCB3233 - Immunology	3	
PCB3343L* - Principles of Field Ecology	5	
PCB3354* - Tropical Ecology and Conservation	3	
PCB3355L* - Tropical Marine Biology	2	
PCB3442* - Aquatic Ecology	3	
PCB3522 - Molecular Biology I	3	
PCB3522H - Honors Molecular Biology I	3	
PCB3703C - Human Physiology	4	
PCB4301C*† - Wetland Ecology & Biogeochemistry	4	
PCB4315C*† - Marine Ecology of Florida	4	
PCB4353* - Fl Ecology, Natural History and Conserv	3	
PCB4353L*† - Florida Ecology Lab	1	
PCB4402* - Disease Ecology & Ecoimmunology	3	
PCB4413* - Sensory Ecology	3	
PCB4462* - GIS for Biologists and Ecologists	3	
PCB4514* - Genetics II	3	
PCB4524 - Molecular Biology II	4	
PCB4575* - Wildlife Genomics	3	
PCB4678* - Evolution and Medicine	3	
PCB4683L* - Evolutionary Biology Lab	1	
PCB4684* - Population Genetics	3	
PCB4723* - Animal Physiology (A)	4	
PCB5435C* - Marine Ecology of Florida	4	
ZOO3454* - Ichthyology (A)	3	
ZOO3713* - Comparative Vertebrate Anatomy (A)	4	
ZOO 3713L*† - Comp Vert Anat Lab	1	
ZOO3733C - Human Anatomy	4	
ZOO4205C*† - Invertebrate Biodiversity (A)	4	
ZOO4272* - Ornithology (A)	3	
ZOO4310C*† - Vertebrate Evolution & Ecology (A)	4	
ZOO4405C*† - Sea Turtle Ecology, Conserv Intern (A)	3	
ZOO4462C*† - Herpetology (A)	4	
ZOO4480* - Mammalogy (A)	4	
ZOO4480L*† - Mammalogy Lab	1	
ZOO4513* - Animal Behavior (A)	3	
ZOO4603C*† - Embryology/Development (A)	5	
ZOO4756C*† - Comparative Vertebrate Histology (A)	4	
ZOO4910L*† - Res in Animal Beh. in a Zoo Env (A)	3	
ZOO3930 - Intro to Zoology (A)	3	

All Biology Major Students must complete at least one course dealing exclusively with Zoology (A) and one course dealing exclusively with Botany (P)

*** Classes taught in the UCF Biology Deparment**

† Each track must complete one of the following laboratories

(All Biology Students MUST complete the Biology Exam Exit after completing the Biology Core Courses.)
(The Exam MUST be taken and passed by the deadline date Posted on the Testing Website within your Graduating Semester)