Biology - Ecology, Evolutionary and Conservation 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)

			Credits	Grade
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** (PR/CR: PCB3044)	1	
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)

Complete at least (6 hrs) from the following:

BSC3052*	Conservation Biology	3	
BSC4821*	Biogeography	4	
PCB4684*	Population Genetics	3	
ZOO4310C*†	Vertebrate Evolution & Ecology (A)	4	
ZOO4513*	Animal Behavior (A)	3	

Complete at least (7 hrs) from the following:

BOT4303C*†	Plant Kingdom (P)	4	
BOT4503C*†	Plant Physiology (P)	4	
BOT4713C*†	Plant Taxonomy (P)	5	
BSC3052*	Conservation Biology	3	
BSC3453C*	Biological Research Methods and Exp. Design	3	
BSC4330*	Invasion Biology	3	
BSC4821*	Biogeography	4	
BSC4861L*	Urban Ecological Field Studies	3	
OCE3008*	Oceanography	3	
PCB3044L*	Principles of Ecology Lab	1	
PCB3343L*	Principles of Field Ecology	5	
PCB3354*	Tropical Ecology and Conservation	3	
PCB3355L*	Tropical Marine Biology	2	
PCB3442*	Aquatic Ecology	3	
PCB4301C*†	Wetland Ecology & Biogeochemistry	4	
PCB4315C*†	Marine Ecology of Florida	4	
PCB4353*	Florida Ecology, Natural History and Conservation	3	
PCB4353L*†	Florida Ecology Lab	1	
PCB4402*	Disease Ecology & Ecoimmunology	3	
PCB4413*	Sensory Ecology (A)	3	
PCB4575*	Wildlife Genomics	3	
PCB4683L*	Evolutionary Biology Lab	1	
PCB4684*	Population Genetics	3	
PCB5326C*	Ecosystems of Florida	5	
ZOO3454*	Ichthyology (A)	3	
ZOO3713*	Comparative Vertebrate Anatomy (A)	4	
ZOO4205C*†	Invertebrate Biodiversity (A)	4	
ZOO4310C*†	Vertebrate Evolution & Ecology (A)	4	
ZOO4513*	Animal Behavior (A)	3	

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

Biology Major B.S. – Ecology, Evolutionary and Conservation Track
Upper Division Restricted Electives (22 credits)
(Must have a "C" or better in each prerequisite course)

RESTRICTED COURSES

Complete at least (9 hrs) from the following:

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