

Biology - Marine and Aquatic Track

Common Program Prerequisites			Credits	Grade	Biology Laboratories Courses			Credits	Grade
BSC2010C	Biology I (GEP)	(PR: High school biology)	4	_____	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 †				
(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)	(PR: Chemistry Placement Exam. And C (2.0) or better in MAC 1105)	4	_____					
CHM2046	Chemistry Fundamentals II	(PR: A min. grade of "C" (2.0) is required in CHM2045C and MAC1105C)	3	_____					
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)	(PR: MGF1106 or any other MAC course)	3	_____	Upper Division Required and Restricted Electives (22 credits) (Must have a "C" or better in each prerequisite course) Complete at least (3 hrs) from the following: BSC3312* Principles of Marine Biology 3 OCE3008* Oceanography 3 PCB3442* Aquatic Ecology 3 Complete at least (12 hrs) from the following: BSC4312C* Advanced Marine Biology 4 BSC4473C* Scientific Diving 4 OCE3008* Oceanography 3 PCB3355L* Tropical Marine Biology 2 PCB3442* Aquatic Ecology 3 PCB4301C*† Wetland Ecology & Biogeochemistry 4 PCB4315C*† Marine Ecology of Florida 4 PAZ4234 Zoo and Aquarium Management 3 ZOO4205C*† Invertebrate Biodiversity 4 ZOO4310C*† Vertebrate Evolution & Ecology 4 ZOO4405C*† Sea Turtle Ecology and Conservation Intern 3 ZOO4462C*† Herpetology (A) 4				
MAC2233	Concepts of Calculus	(PR: Math Placement Exam or MAC1140C w/ A "C" or better)	3	_____					
Core Requirements: Basic Level (8-9 credits)									
CHM2210	Organic Chemistry I	(PR: A "C" (2.0) or better in CHM 2046)	3	_____					
CHM2211	Organic Chemistry II	(PR: A "C" (2.0) or better in CHM 2210)	3	_____					
CHM2211L	Organic Laboratory Techniques I	(PR: A C (2.0) or better in both CHM 2046L and CHM 2210)	2	_____					
(CHM2205 followed by CHM3120 and CHM3120L can also be taken to meet this requirement)									
Biology Core Requirements: Advanced Level									
PCB3044*	Principles of Ecology	(PR: CHM2045 and a "C" or better in both BSC2010C & BSC2011C)	3	_____					
PCB3063*	Genetics	(PR: CHM2046C and a "C" or better in BSC2010C)	3	_____					
PCB3023*	Molecular Cell Biology	(PR: CHM2210 or CHM2205 and a "C" or better in BSC2010C & PCB3063)	3	_____					
PCB4683*	Evolutionary Biology	(PR: JR Standing & a "C" or better in PCB3063)	4	_____					

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

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

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

RESTRICTED COURSES			
Complete at least (7 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		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 Department

† 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)