

Biology - Pre-Health Professional 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:			
(A min. grade of "C" (2.0) is required in BSC2010C subsequent biology courses)					PCB3044L*	Principles of Ecology Lab	1		
BSC2011C	Biology II	(PR: A "C" (2.0) or better in BSC 2010C)	4			(PR/CR: PCB3044)			
(A min. grade of "C" (2.0) is required in BSC2011C subsequent biology courses)					PCB3063L*	Genetics Laboratory	1		
CHM2045C	Chemistry Fundamentals I (GEP)		4		PCB4683L*	Evolutionary Biology Lab	1		
(PR: Chemistry Placement Exam. And C (2.0) or better in MAC 1105)					Section B	Complete at least 1 Core/Non-Core: from above or designated with †			
CHM2046	Chemistry Fundamentals II		3		Upper Division Required and Restricted Electives (22 credits)				
(PR: A min. grade of "C" (2.0) is required in CHM2045C and MAC1105C)					(Must have a "C" or better in each prerequisite course)				
CHM2046L	Chemistry Fundamentals Lab	(PR/CR: CHM2046)	1		A student cannot choose both BCH4053 and BCH4024 to fulfill the following requirement.				
PHY2053	College Physics I	(PR: MAC1105C & MAC1114C)	3		Complete at least (9 hrs) from the following:				
PHY2053L	College Physics I Lab	(PR/CR: PHY2053 w/ a "C" or better)	1		BCH4024	Medical Biochemistry	4		
PHY2054	College Physics II	(PR: PHY2053 w/ a "C" or better)	3		BCH4053	Biochemistry I	3		
PHY2054L	College Physics II Lab	(PR/CR: PHY2054 w/ a "C" or better)	1		PCB4514*	Genetics II	3		
STA2023	Statistical Methods I (GEP)		3		PCB4723*	Animal Physiology (A)	4		
(PR: MGF1106 or any other MAC course)					ZOO3713*	Comparative Vertebrate Anatomy (A)	4		
MAC2233	Concepts of Calculus		3		ZOO4603C*†	Embryology/Development (A)	5		
(PR: Math Placement Exam or MAC1140C w/ A "C" or better)					Complete at least (5 hrs) from the following:				
Core Requirements: Basic Level (8-9 credits)					BCH4024	Medical Biochemistry	4		
CHM2210	Organic Chemistry I		3		BCH4053	Biochemistry I	3		
(PR: A "C" (2.0) or better in CHM 2046)					BCH4054	Biochemistry II	3		
CHM2211	Organic Chemistry II		3		BOT4850*	Medical Botany (P)	3		
(PR: A "C" (2.0) or better in CHM 2210)					MCB3020C	General Microbiology	5		
CHM2211L	Organic Laboratory Techniques I		2		PCB3233	Immunology	3		
(PR: A C (2.0) or better in both CHM 2046L and CHM 2210)					PCB3522	Molecular Biology I	3		
(CHM2205 followed by CHM3120 and CHM3120L can also be taken to meet this requirement)					PCB3703C	Human Physiology	4		
Biology Core Requirements: Advanced Level					PCB4514*	Genetics II	3		
			Credits	Grade	PCB4678*	Evolution and Medicine	3		
PCB3044*	Principles of Ecology		3		PCB4723*	Animal Physiology (A)	4		
(PR: CHM2045 and a "C" or better in both BSC2010C & BSC2011C)					ZOO3713*	Comparative Vertebrate Anatomy (A)	4		
PCB3063*	Genetics		3		ZOO4205C*†	Invertebrate Biodiversity (A)	4		
(PR: CHM2046C and a "C" or better in BSC2010C)					ZOO4513*	Animal Behavior (A)	4		
PCB3023*	Molecular Cell Biology		3		ZOO4603C*†	Embryology/Development (A)	5		
(PR: CHM2210 or CHM2205 and a "C" or better in BSC2010C & PCB3063)					ZOO4756C*†	Comparative Vertebrate Histology (A)	4		
PCB4683*	Evolutionary Biology		4						
(PR: JR Standing & a "C" or better in PCB3063)									
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. – Pre-Health Track
Upper Division Restricted Electives (22 credits)
(Must have a "C" or better in each prerequisite course)

RESTRICTED COURSES			
Complete at least (6 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 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)