	Outline for Biology Major Requirements (B.S.)								
Common Program Prerequisites					Biology Laboratories Courses				
			Credits	Grade			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 o	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 o	of "C" (2.0) is required in BSC2011C				PCB3063L*	Genetics Laboratory	1		
CHM2045C	Chemistry Fundamentals	I (GEP)	4						
	(PR: Chemistry Placement Exam.	And C (2.0) or better in MAC 1105)			PCB4683L*	Evolutionary Biology Lab	1		
CHM2046	Chemistry Fundamentals	s II	3						
		equired in CHM2045C and MAC1105C)			Section B	Complete at least 1 Core/Non-Core: from above or design	nated below w	ith †	
CHM2046L	Chemistry Fundamentals	<b>Lab</b> (PR/CR: CHM2046)	1				_		
			_		BOT3018C*†	Culinary Botany Across the Cultures (P)	4		
PHY2053	College Physics I	(PR: MAC1105C & MAC1114C)	3		BOT4223C*†	Plant Anatomy (P)	4		
PHY2053L	College Physics I Lab	(PR/CR: PHY2053 w/ a "C" or better)	1 .		BOT 4282C*†	Plant Microtechniques	4		
			•		BOT4303C*†	Plant Kingdom (P)	4		
PHY2054	College Physics II	(PR: PHY2053 w/ a "C" or better)	3		BOT4503C*†	Plant Physiology (P)	4		
PHY2054L	College Physics II Lab	(PR/CR: PHY2054 w/ a "C" or better)	1 .		BOT4530C*†	Plant Genomics and Biochemistry (P)	4		
c=		n)	2		BOT4713C*†	Plant Taxonomy (P)	5		
STA2023	Statistical Methods I (GE		3		BSC 4312C*†	Adv Marine Biol	4		
N	(PR: MGF1106 or any other MAC course)		2		BSC 4445C*†	Genomics Lab	4		
MAC2233	Concepts of Calculus	- AAA C44 40C - / A IICII bbb	3		ENY3571*†	Honey Bee Biology and Beekeeping (A)	3		
	(PR: Math Placement Exam o	or MAC1140C w/ A "C" or better)			ENY4004C*†	General Entomology (A)	4		
					PCB 4301C*† PCB 4353L*†	Wetland Eco & Biogeochem. FL Ecology Lab	1		
Core Requirements: Basic Level (8-9 credits)					PCB 4315C*†	Marine Ecology of Florida	1		
CHM2210	Organic Chemistry I		3		ZOO 3713L*†	Comp Vert Anat Lab	1		
CHIVILLIO	(PR: A "C" (2.0) or better in (	`HM 2046)			ZOO 4205C*†	•	4		
CHM2211	Organic Chemistry II	2010,	3		ZOO4310C*†	Vertebrate Evolution & Ecology (A)	4		
0	(PR: A "C" (2.0) or better in (	CHM 2210)			ZOO4405C*†	Sea Turtle Conservation Internship (A)	3		
CHM2211L	Organic Laboratory Techniques I		2		ZOO4462C*†	Herpetology (A)	4		
	(PR: A C (2.0) or better in both CHM 2046L and CHM 2210)		•		ZOO 4480L*†	Mammalogy Lab	1		
(CHM2205 followed by CHM3120 and CHM3120L can also be taken					ZOO4603C*†	Embryology/Development (A)	5		
to meet this requirement)					ZOO4756C*†	Comparative Vertebrate Histology (A)	4		
					ZOO4910L*†	Res in Animal Beh. in a Zoo Env (A)	3		
					1		-		
Biology Cor	e Requirements: Advanced	Level	Credits	Grade					
PCB3044*	<b>Principles of Ecology</b>		3			* All Biology Major Students must complete at least one course			
	(PR: CHM2045 and a "C" or I	petter in both BSC2010C & BSC2011C)	•			dealing exclusively with Zoology (A) and one course dealing			
PCB3063*	Genetics		3			exclusively with Botany (P).			
	(PR: CHM2046C and a "C" or	-	•	·					
PCB3023* Molecular Cell Biology			3		Upper Division Required and Restricted Electives (22 credits)				
	(PR: CHM2210 or CHM2205 and a "C" or better in BSC2010C & PCB3063)		_			Please see the roadmaps to determine which Required and			
PCB4683*	<b>Evolutionary Biology</b>		4			Restricted Electives are needed for the Track of your choice.			
	(PR: JR Standing & a "C" or better in PCB3063)								
		B				nt Study/Directed Research: May include a maximu			
UCF GPA: _	Major GPA:	Restricted Elective:			4hrs towar	ds restricted electives- (Completed with Biology Fac	uity)		

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

(**************************************		etter in each prerequisite course,	
RESTRICTED COURSES			
Complete at least (22 hrs) from the following:		PCB3233 - Immunology	3
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* - Epigenetics	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
		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

<sup>†</sup> Each track must complete one of the following laboratories