TRACK NAME UCF ID DATE



Biology Roadmap 2024-2025



All prerequisite courses require a "C" (2.0) or better

Common Program Prerequisites - "C" (2.0) or better in each course														
		Credits	Status					Credits	Status					
BSC2010C	Biology I (GEP)	4		CHM2210	Organ	ic Chemistry I		3						
	PR: High school biology					PR: CHM 2046								
BSC2011C	Biology II	4		CHM2211	Organ	ic Chemistry II		3						
	PR: BSC 2010C					PR: CHM 2210								
				CHM2211L	Organ	ic Laboratory 1	Techniques I	2						
CHM2045C	Chemistry Fundamentals I (GEP)	4				PR: CHM 2046L a	and CHM 2210							
	PR: CHM 1025 or CPE, and MAC 1105 or MPT				Also satisfie	d by CHM2205	followed by CHM3120 and CHI	A3120I						
CHM2046	Chemistry Fundamentals II	3			-	•	•							
	PR: CHM 2045C, and MAC 1105C or MPT			Biology Core Requirements: "C" (2.0) or better in each course										
CHM2046L	Chemistry Fundamentals Lab	1						Credits	Status					
	PR or CR: CHM2046			PCB3044*	Princi	ples of Ecology		3						
						PR: CHM2045, B	SC 2010C & BSC2011C							
MAC2311C	Calculus with Analytic Geometry I	4		PCB3063*	Genet	ics		3						
OR	PR: MAC1140C & MAC1114C, or MPT					PR: BSC2011C or	CHM2046							
MAC2233	Concepts of Calculus	3		PCB3023*	Molec	ular Cell Biolog	3							
	PR: MAC 1140C or MPT						or CHM3120, and BSC2010C, and PCB30	163						
				PCB4683* Evolutionary Biology				4						
STA2023	Statistical Methods I (GEP)	3				PR: JR Standing 8	& PCB 3063							
	PR: MGF 1106 or any MAC course			Were all four of $YES \Box$ the above courses			nothing further needed							
PHY2053	College Physics I	3		taken at UCF?		NO 🗆	check overall UL residency:	of	23					
F1112033	PR: MAC 1114C or higher, or MPT	3				Unner Le	evel Lab Requirements							
	•	_				•	•							
PHY2053L	College Physics I Lab	1		Lab A	PCB3044L	Principles of Ed	= :							
	PR or CR: PHY 2053			Choose one		Genetics Labor		1						
	Also satisfied by PHY 2053C (4cr, Lab included) Also satisfied by PHY 2048C, or PHY 2048 & Lab (PR: MAC23110	~)			PCB4683L	Evolutionary B	lology Lab							
	Also sutisfied by FTT 2040C, OFFTT 2040 & Edb (FN. MAC2511C	-/		Lab B A second Lab A course, or other lab elective (see second page)										
PHY2054	College Physics II	3		Upper Level Electives										
	PR: PHY 2053			22 Credit Hours of Electives - See Second Page										
PHY2054L	College Physics II Lab	1												
	PR or CR: PHY 2054					Oth	er Requirements							
	Also satisfied by PHY 2054C (4cr, Lab included)				UCF GPA		Major GPA	Exit						
	Also satisfied by PHY 2049C, or PHY 2049 & Lab (PR: PHY 2048 & MAC2312)					 2.0 minimum	2.0 minimum	Exam*						
	* The Dieless Evit Europe and the fell .		2:-11-2	<u> </u>										
	* The Biology Exit Exam covers the following core courses: Biology I, Biology II, Genetics, Ecology, Molecular Cell Biology, and Evolutionary Biology.													

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	Biology Major B.S General Track							Upper Division Restricted Electives (22 hrs)									
3	KEY: R = Elective Residency (Taught by UCF Biology Dept)				ept)	L = La	Lab Option A = Animal/Zoology Option P = Plant/Botany Option								2		
	Course Detail	R	L	Α	Р	Cr	Stat	tus		Course Detail		R	L	Α	Р	Cr	Status
ANT 3550C	Primatology			Α		3			PCB 3442	Aquatic Ecology		R				3	
ANT 4516	Human Biological Diversity					3			PCB 3522	Molecular Biology I						3	
BCH 4024	Medical Biochemistry					4			PCB 3703C	Human Physiology						4	
BCH 4053	Biochemistry I					3			PCB 4301C	Wetland Ecology & Biogeoche	em.	R	L			4	
BCH 4054	Biochemistry II					3			PCB 4353	Fl Ecology, Natural History & 0	Cons	R				3	
BOT 3015	Principles of Plant Science ²	R			Р	3			PCB 4353L	Florida Ecology Lab		R	L			1	
BOT 3802	Ethnobotany ²	R			Р	3			PCB 4932	Population Ecology		R				3	
BOT 3018C	Cul Botany Across the Cultures	R	L		Р	4			PCB 4402	Disease Ecology & Ecoimmune	ology	R				3	
BOT 4223C	Plant Anatomy	R	L		Р	4			PCB 4408	Urban Ecology		R				3	
BOT 4303C	Plant Kingdom	R	L		Р	4			PCB 4413	Sensory Ecology		R				3	
BOT 4503C	Plant Physiology	R	L		Р	4			PCB 4514	Epigenetics		R				3	
BOT 4713C	Plant Taxonomy	R	L		Р	5			PCB 4524	Molecular Biology II						3	
BOT 4850	Medical Botany	R			Р	3			PCB 4575	Wildlife Genomics		R				3	
BSC 3052	Conservation Biology	R				3			PCB 4683L	Evolutionary Biology Lab		R	L*			1	
BSC 3312	Principles of Marine Biology	R				3			PCB 4723	Animal Physiology		R		Α		4	
BSC 3403C	Quantitative Biological Methods					4			ZOO 3001	Integrated Principles of Zoolo	gy	R		Α		3	
BSC 3453C	Bio Res. Meth & Exp Design	R				3			ZOO 3454	Ichthyology	-,	R		Α		3	
BSC 3945	Learning Assistants in Biology	R				3			ZOO 3713	Comparative Vertebrate Anat	omy	R		Α		4	
BSC 4310	Service Learning Marine Conserv	R				3			ZOO 3713L	Comp Vert Anat Lab	•	R	L			1 -	
BSC 4312C	Advanced Marine Biology	R	L			4			ZOO 3733C	Human Anatomy						4	
BSC 4330	Invasion Biology	R				3			ZOO 4205C	Invertebrate Biodiversity		R	L	Α		4	
BSC 4445C	Genomics Laboratory	R	L			4			ZOO 4272	Ornithology		R		Α		3	
BSC 4456C	Programming for Biologists	R				3			ZOO 4310C	Vertebrate Evolution & Ecolog	37	R	L	Α		4	
BSC 4473C	Scientific Diving	R				4			ZOO 4405C	Sea Turtle Ecology, Conserv In	itern	R	L	Α		3	
BSC 4821	Biogeography	R				4			ZOO 4462C	Herpetology		R	L	Α		4	
BSC 4912	Directed Independent Research ¹	R				1-4			ZOO 4480	Mammalogy		R		Α		4	
BSC 4941	Biology Internship ¹	R				1-4			ZOO 4480L	Mammalogy Lab		R	L			1	
BSC 4927	Sci and Public Engage for Bio Majors	R				3			ZOO 4513	Animal Behavior		R		Α		3	
ENY 4004C	General Entomology	R	L	Α		4			ZOO 4603C	Embryology/Development		R	L	Α		5	
ENY 4455C	Social Insect Behavior	R	L	Α		4			ZOO 4756C	Comparative Vertebrate History	logy	R	L	Α		4	
MCB 3020C	General Microbiology		L			5			ZOO 4910L	Res in Animal Beh. in a Zoo Er	1V	R	L	Α		3	
OCE 3008	Oceanography	R				3										_	
PAZ 4234	Zoo and Aquarium Management	R				3										_	
PCB 3044L	Principles of Ecology Lab		L*			1 -				Subsections of a street and a s	- ECl			4	14/-	_	
PCB 3063L	Genetics Laboratory	R				1			Only a few elective courses are offered each								
PCB 3233	Immunology		_			3			perforn	ning class search using Departm	nent > Bio	logy	(to fir	nd "R	" elec	tive c	ourses)
PCB 3354	Tropical Ecology and Conservation	R				3			Command O ID Total		1.0	_					
PCB 3355L	Tropical Marine Biology	R				2			Cu	rrent & IP Total:	/ 2	2	N	eede	ea: _		
Requirements Animal/Zoology			Plant / Botany						Lab A (L*) 10+ Residence						in addition to		
Met				Cours					Lab B (L) Elective Hours (R)							13cr of Core	

You may only earn a MAXIMUM OF 4 CREDIT HOURS from internship, research and independent study (collectively) towards your Biology electives.

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NOTES

PROJECTED SCHEDULE

Semester Semester Semester

Semester

If planning through graduation, you *may* need to include upper-level "free electives" to meet the university requirement of 42 upper level credit hours. Best practice is to focus on major courses as free electives can be taken your final semester if needed.

Semester

UL Credits remaining out of 42:

Semester

UL Credits remaining in major:

Room for Free Electives?

No

Yes