

Biology Roadmap 2024-2025

7

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	Organio	c Chemistry I		3			
	PR: High school biology					PR: CHM 2046					
BSC2011C	Biology II	4		CHM2211	Organio	c Chemistry II		3			
	PR: BSC 2010C					PR: CHM 2210					
				CHM2211L	Organio	c 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 satisfied	by CHM2205 □	followed by CHM3120 🔲 ai	nd CHM3120L 🗆			
CHM2046	Chemistry Fundamentals II	3									
	PR: CHM 2045C, and MAC 1105C or MPT			E	Biology Core	e Requireme	nts: "C" (2.0) or better in				
CHM2046L	Chemistry Fundamentals Lab	1						Credits	Status		
	PR or CR: CHM2046			PCB3044*	Princip	les of Ecology		3			
						PR: CHM2045, B	SC 2010C & BSC2011C				
MAC2311C	Calculus with Analytic Geometry I	O 4		PCB3063*	Genetic	cs		3			
OR	PR: MAC1140C & MAC1114C, or MPT	_				PR: BSC2011C or					
MAC2233	Concepts of Calculus	O 3		PCB3023*		ılar Cell Biolog	= -	3			
	PR: MAC 1140C or MPT						5 or CHM3120, and BSC2010C, and				
				PCB4683*		onary Biology		4			
STA2023	Statistical Methods I (GEP)	3		14/		PR: JR Standing 8	& PCB 3063				
	PR: MGF 1106 or any MAC course			Were all		YES 🔘	nothing further needed				
PHY2053	College Physics I	3		the above		NO O	check overall UL residence	cy: of	22		
71112033	PR: MAC 1114C or higher, or MPT	3		tuken c	at UCF?	linner i e	evel Lab Requirements				
DUIV20E2I	•	4		1 - 1- 0	DCD2044I	• •	•				
PHY2053L	College Physics I Lab	1		Lab A		Principles of Ed	_	4			
	PR or CR: PHY 2053 Also satisfied by PHY 2053C (4cr, Lab included)			Choose one		Genetics Labor		1			
	Also satisfied by PHY 2048C, or PHY 2048 & Lab (PR: MAC2	311C)			PCB4083L	Evolutionary B	lology rap O				
		,		Lab B	A secon	nd Lab A cours	e, or other lab elective (see s	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)			ι	UCF GPA _		Major GPA	Exit			
	Also satisfied by PHY 2049C, or PHY 2049 & Lab (PR: PHY 2	(PR: PHY 2048 & MAC2312) 2.0 minimum 2.0 minimum Exam*									
	* The Biology Exit Exam covers the following core courses: Biology I, Biology II, Genetics, Ecology, Molecular Cell Biology, and Evolutionary Biology.										

DATE

(3)	Biology Major B.S. – Ecology Evolutionary and Conservation Track					Upper Division Restricted Electives (22 hrs)						(a)				
(39)	KEY: R = Elective Residency (Taught by UCF Biology Dept) L = L				ab Option	O Option						3				
	Course Detail	R		Α			tatus		Course Detail	R	1	L	Α	Р	Cr	Status
REQUIRED	- COMPLETE AT LEAST 1		"C"	or be	tter	required		BOT 4503C	Plant Physiology	R	1	L		Р	4	
BSC 3052	Conservation Biology	R				3		BOT 4850	Medical Botany	R	2			Р	3	
ZOO 4513	Animal Behavior	R		Α		3		BSC 3312	Principles of Marine Biology	R	2				3	
RESTRICTE	D - COMPLETE AT LEAST 4	Ac	dditi	onal F	rom	Above, o	r:	BSC 3403C	Quantitative Biological Metho	ds						
BOT 4223C	Plant Anatomy	R	L		Р	4		BSC 4310	Service Learning Marine Cons	erv R	1				3	
BOT 4303C	Plant Kingdom	R	L		Р	4		BSC 4312C	Advanced Marine Biology	R	2	L			4	
BOT 4713C	Plant Taxonomy	R	L		Р	5		BSC 4445C	Genomics Laboratory	R	1	L			4	
BSC 3453C	Bio Res. Meth & Exp Design	R				3		BSC 4456C	Programming for Biologists	R	2				3	
BSC 4330	Invasion Biology	R				3		BSC 4473C	Scientific Diving	R	2				4	
BSC 4821	Biogeography	R				4		ENY 4004C	General Entomology	R	1	L	Α		4	
BSC 4927	Sci and Public Engage for Bio Majors	R				3		ENY 4455C	Social Insect Behavior	R	1	L	Α		4	
OCE 3008	Oceanography	R				3		MCB 3020C	General Microbiology						5	
PCB 3354	Tropical Ecology and Conservation	R				3		PAZ 4234	Zoo and Aquarium Manageme	ent R	l				3	
PCB 3442	Aquatic Ecology	R				3		PCB 3044L	Principles of Ecology Lab	R	1	L*			1	
PCB 4301C	Wetland Ecology & Biogeochemistry	R	L			4		PCB 3063L	Genetics Laboratory	R	l	L*			1	
PCB 4353	FI Ecology, Natural History & Cons	R				3		PCB 3233	Immunology						3	
PCB 4402	Disease Ecology & Ecoimmunology	R				3		PCB 3522	Molecular Biology I						3	
PCB 4408	Urban Ecology	R				3		PCB 3703C	Human Physiology						4	
PCB 4413	Sensory Ecology	R				3		PCB 4353L	Florida Ecology Lab	R	1	L			1	
PCB 4575	Wildlife Genomics	R				3		PCB 4514	Epigenetics	R	1				3	
PCB 4932	Population Ecology	R				3		PCB 4524	Molecular Biology II						3	
ZOO 3454	Ichthyology	R		Α		3		PCB 4683L	Evolutionary Biology Lab	R		L*			1	
ZOO 3713	Comparative Vertebrate Anatomy	R		Α		4		PCB 4723	Animal Physiology	R	1		Α		4	
ZOO 4205C	Invertebrate Biodiversity	R	L	Α		4		ZOO 3001	Integrated Principles of Zoolog	gy R			Α		3	
ZOO 4272	Ornithology	R		Α		3		ZOO 4480L	Mammalogy Lab	 R	1	L			1	
ZOO 4310C	Vertebrate Evolution & Ecology	R	L	Α		4		ZOO 4513	Animal Behavior	R	1		Α		3	
ZOO 4405C	Sea Turtle Ecology, Conserv Intern	R	L	Α		3		ZOO 4603C	Embryology/Development	R	1	L	Α		5	
ZOO 4462C	Herpetology	R	L	Α		4		ZOO 4756C	Comparative Vertebrate Histo	logy R		L	Α		4	
ZOO 4480	Mammalogy	R		Α		4		ZOO 4910L	Res in Animal Beh. in a Zoo En		1	L	Α		3	
	. ,							ZOO 3713L	Comp Vert Anat Lab	R		L			1	
COMPLETE	REMAINING REQUIREMENTS	Ac	dditi	onal F	rom	Above, o	r:	ZOO 3733C	Human Anatomy						4	
ANT 3550C	Primatology			Α		3			·							
BCH 4024	Medical Biochemistry					4										
BCH 4053	Biochemistry I					3		1 ,	Only a favy alastics socress are	offered or -		m c c t	or '	14/0 -		+
BCH 4054	Biochemistry II					3			Only a few elective courses are o							
BOT 3015	Principles of Plant Science ²	R			Р	3		perforn	ning class search using Departm	ient > Biolog	y (t	o Jine	a "R"	elec	tive co	ourses)
BOT 3802	Ethnobotany ²	R			Р	3			Current & ID Total	/ 22		Nac	,dod	ı.	22	
BOT 3018C	Cul Botany Across the Cultures	R	L		Р	4		7	Current & IP Total:	/ 22		wee	eueo	1	22	
Requirer	ments Animal/Zoology		Pla	ant / I	Bota	ny r	\neg	Lab A (L*)	10+ Residen	ce 🗌] [
Mel	t: Course (A)		(Cours	e (P)	2		Lab B (L)	Elective Hours	(R)] [

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

NOTES

General Education Program Your GEPs are (complete or not com	plete).			
Most students have room two "free elect taken from outside the Biology department. rigorous courses. If you'd like a list of ideas	You may wish to choo-	se courses you find fun or interest	er level courses (3000 ing to incorporate dur	0+) of your choice that can be ing semesters when you are taking
About the Biology Exit Exam: https://acad	lemicsuccess.ucf.edu/u	utc/biology/		
	PRO.	JECTED SCHEDULE		
Semester	Semester		Semester	
. [l <u>.</u> .			
Semester	Semester		Semester	