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## Biology Roadmap 2024-2025

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

MPT = Appropriate Score on Math Placement Test

CPE = Appropriate Score on Chem Placement Exam.



Common Program Prerequisites - "C" (2.0) or better in each course								
		Credits Status	Credits	Status				
BSC2010C	Biology I (GEP)	4	CHM2210 Organic Chemistry I 3					
	PR: High school biology		PR: CHM 2046					
BSC2011C	Biology II	4	CHM2211 Organic Chemistry II 3					
	PR: BSC 2010C		PR: CHM 2210					
			CHM2211L Organic Laboratory Techniques I 2					
CHM2045C	Chemistry Fundamentals I (GEP)	4	PR: CHM 2046L and CHM 2210					
	PR: CHM 1025 or CPE, and MAC 1105 or MPT		Also satisfied by CHM2205 $\square$ followed by CHM3120 $\square$ and CHM3120L $\square$					
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* Principles of Ecology 3					
			PR: CHM2045, BSC 2010C & BSC2011C					
MAC2311C	Calculus with Analytic Geometry I	O 4	PCB3063* Genetics 3					
OR	PR: MAC1140C & MAC1114C, or MPT		PR: BSC2011C or CHM2046					
MAC2233	Concepts of Calculus	O 3	PCB3023* Molecular Cell Biology 3					
	PR: MAC 1140C or MPT		PR: CHM2210 or CHM2205 or CHM3120, and BSC2010C, and PCB3063  PCB4683* Evolutionary Biology 4					
STA2023	Statistical Methods I (GEP)	3	PCB4683* Evolutionary Biology PR: JR Standing & PCB 3063					
31A2U23	PR: MGF 1106 or any MAC course	3	Mara all four of					
	Th. Mor 1100 of any MAC course		the above courses YES onothing further needed					
PHY2053	College Physics I	3	taken at UCF?  NO Check overall UL residency: of 22	2				
	PR: MAC 1114C or higher, or MPT		Upper Level Lab Requirements					
PHY2053L	College Physics I Lab	1	Lab A PCB3044L Principles of Ecology Lab					
	PR or CR: PHY 2053		PCB3063L Genetics Laboratory					
	Also satisfied by PHY 2053C (4cr, Lab included)		PCB4683L Evolutionary Biology Lab					
	Also satisfied by PHY 2048C, or PHY 2048 & Lab (PR: MAC2	?311C)						
DUNG 0.5.4		, <u> </u>	Lab B A second Lab A course, or other lab elective (see second page)					
PHY2054	College Physics II PR: PHY 2053	3	Upper Level Electives					
PHY2054L		1	22 Credit Hours of Electives - See Second Page					
PH12034L	College Physics II Lab PR or CR: PHY 2054	1	Other Requirements					
	Also satisfied by PHY 2054C (4cr, Lab included)		i					
	Also satisfied by PHY 2049C, or PHY 2049 & Lab (PR: PHY 2	1048 & MAC2312)	UCF GPA Major GPA Exit					
Z.O minimum Z.O minimum Exam.								
* 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 Divisio					r Division Restricted Electives (22 hrs)				L					
32	KEY: R = Elective Residency (Taught by UCF Biology Dept)		t) <b>L</b> :	= Lab Option	Lab Option A = Animal/Zoology Option P = Plant/Botany Option				2						
	Course Detail	R	L	Α	Р	Cr	Status	3	Course Detail	R	L	Α	Р	Cr	Status
ANT 3550C	Primatology			Α		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 & Biogeocher	m. R	L			4	
BCH 4054	Biochemistry II					3		PCB 4353	Fl Ecology, Natural History & Co	ons R				3	
BOT 3015	Principles of Plant Science 2	R			Р	3		PCB 4353L	Florida Ecology Lab	R	L			1	
BOT 3802	Ethnobotany <sup>2</sup>	R			Р	3		PCB 4932	Population Ecology	R				3	
BOT 3018C	Cul Botany Across the Cultures	R	L		Р	4		PCB 4402	Disease Ecology & Ecoimmunol	logy 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 Zoolog	y 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 Anato	my 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 & Ecology	y R	L	Α		4	
BSC 4473C	Scientific Diving	R				4		ZOO 4405C	Sea Turtle Ecology, Conserv Int	ern R	L	Α		3	
BSC 4821	Biogeography	R				4		ZOO 4462C	Herpetology	R	L	Α		4	
BSC 4912	Directed Independent Research <sup>1</sup>	R				1-4		ZOO 4480	Mammalogy	R		Α		4	
BSC 4941	Biology Internship <sup>1</sup>	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 Histol	ogy R	L	Α		4	
MCB 3020C	General Microbiology					5		ZOO 4910L	Res in Animal Beh. in a Zoo Env	v R	L	Α		3	
OCE 3008	Oceanography	R				3									
PAZ 4234	Zoo and Aquarium Management	R				3									
PCB 3044L	Principles of Ecology Lab	R	L*			1									
PCB 3063L	Genetics Laboratory	R	L*			1			Only a few elective courses are o	ffered each s	omos	tor l	No si	ınnes	+
PCB 3233	Immunology					3									
PCB 3354	Tropical Ecology and Conservation	R				3		perjorn	ning class search using Departme	erit > Biology	(to jir	iu k	eieci	live C	ourses)
PCB 3355L	Tropical Marine Biology	R				2			Current & IP Total:	/ 22	Ne	eded	1.	22	
PCB 3442	Aquatic Ecology	R				3			Current & ir Total:	/ 22		eueu	<u>'                                    </u>		ar.
Require				ant /		_ *		Lab A (L*)	10+ Residence Elective Hours						
Me	course (A)		(	Cour	se (F	')		Lab B (L)	Liective nours	(n)					

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**

General Education Program Your GEPs are (complete or not com	plete).			
Most students have room two "free election taken from outside the Biology department. rigorous courses. If you'd like a list of ideas in the state of the state o	You may wish to choo-	se courses you find fun or interest		
About the Biology Exit Exam: https://acad	emicsuccess.ucf.edu/u	tc/biology/		
	PRO.	JECTED SCHEDULE		
Semester	Semester		Semester	
Semester	Semester		Semester	