

## 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 Statu		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) PR: CHM 1025 or CPE, and MAC 1105 or MPT	4	PR: CHM 2046L and CHM 2210  Also satisfied by CHM2205   followed by CHM312	0 $\square$ and CHM3120L $\square$					
CHM2046	Chemistry Fundamentals II	3							
	PR: CHM 2045C, and MAC 1105C or MPT		Biology Core Requirements: "C" (2.0) or b	etter 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 BSC2	010C, and PCB3063					
			PCB4683* Evolutionary Biology	4					
STA2023	Statistical Methods I (GEP)	3	PR: JR Standing & PCB 3063						
	PR: MGF 1106 or any MAC course		Were all four of YES O nothing further n	needed					
	- "		the above courses						
PHY2053	College Physics I	3	taken at UCF?	,,					
	PR: MAC 1114C or higher, or MPT		Upper Level Lab Requirem	ents					
PHY2053L	College Physics I Lab	1	Lab A PCB3044L Principles of Ecology Lab						
	PR or CR: PHY 2053		Choose one PCB3063L Genetics Laboratory	1					
	Also satisfied by PHY 2053C (4cr, Lab included)		PCB4683L Evolutionary Biology Lab						
	Also satisfied by PHY 2048C, or PHY 2048 & Lab (PR: MAC.	2311C)	Lab D. A second Lab A source or other lab elect	ive (see seemd name)					
DUV20E4	Callege Physics II	2	Lab B A second Lab A course, or other lab elections						
PHY2054	College Physics II	3	Upper Level Electives						
DI IV205 41	PR: PHY 2053	4	22 Credit Hours of Electives - See S	econd Page					
PHY2054L	College Physics II Lab PR or CR: PHY 2054	1	Other 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 Biology Exit Exam covers the following core courses: Biology I, Biology II, Genetics, Ecology, Molecular Cell Biology, and Evolutionary Biology.									

## Pre-Health Track

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۲2	Biology Major B.S. – Pre-Health Track Upper Division Restricted Electives (22 hrs)										() <sub>e</sub>				
U	<b>KEY: R</b> = Elective Residency (Taught by UCF Biology Dept)			L = 1	Lab Option A = Animal/Zoology Option P = Plant/Botany Option				7						
	Course Detail	R					Status		Course Detail	R	L	Α	Р	Cr	Status
REQUIRED	- COMPLETE AT LEAST 2		"C"	or be	etter r	equired		BSC 4456C	Programming for Biologists	R				3	
BCH 4024	Medical Biochemistry					4		BSC 4473C	Scientific Diving	R				4	
BCH 4053	Biochemistry IOR					3		BSC 4821	Biogeography	R				4	
MCB 3020C	General Microbiology					5		ENY 4004C	General Entomology	R	L	Α		4	
PCB 4723	Animal Physiology	R		Α		4		ENY 4455C	Social Insect Behavior	R	L	Α		4	
ZOO 3713	Comparative Vertebrate Anatomy	R		Α		4		OCE 3008	Oceanography	R				3	
ZOO 4603C	Embryology/Development	R	L	Α		5		PAZ 4234	Zoo and Aquarium Manageme	ent R				3	
RESTRICTE	D - COMPLETE AT LEAST 3	A	dditio	onal	From	Above, c	r:	PCB 3044L	Principles of Ecology Lab	R	L*			1	
BCH 4054	Biochemistry II					3		PCB 3063L	Genetics Laboratory	R	L*			1	
BOT 4850	Medical Botany	R			Р	3		PCB 3354	Tropical Ecology and Conserva	ation R				3	
BSC 4927	Sci and Public Engage for Bio Majors	R				3		PCB 3355L	Tropical Marine Biology	R				2	
PCB 3233	Immunology					3		PCB 3442	Aquatic Ecology	R				3	
PCB 3522	Molecular Biology I					3		PCB 4301C	Wetland Ecology & Biogeoche	em. R	L			4	
PCB 3703C	Human Physiology					4		PCB 4353	Fl Ecology, Natural History & (	Cons R				3	
PCB 4514	Epigenetics	R				3		PCB 4353L	Florida Ecology Lab	R	L			1	
PCB 4524	Molecular Biology II					3		PCB 4932	Population Ecology	R				3	
BSC 4912	Directed Independent Research <sup>1</sup>	R				3-4		PCB 4402	Disease Ecology & Ecoimmune	ology R				3	
BSC 4941	Biology Internship <sup>1</sup>	R				3-4		PCB 4408	Urban Ecology	R				3	
ZOO 3733C	Human Anatomy					4		PCB 4413	Sensory Ecology	R				3	
ZOO 4513	Animal Behavior	R		Α		3		PCB 4575	Wildlife Genomics	R				3	
ZOO 4756C	Comparative Vertebrate Histology	R	L	Α		4		PCB 4683L	Evolutionary Biology Lab	R	L*			1	
								ZOO 3001	Integrated Principles of Zoolog	gy R		Α		3	
COMPLETE	REMAINING REQUIREMENTS	Α	dditio	onal	From	Above, c	r:	ZOO 3454	Ichthyology	R		Α		3	
ANT 3550C	Primatology			Α		3		ZOO 3713L	Comp Vert Anat Lab	R	L			1	
<b>BOT 3015</b>	Principles of Plant Science <sup>2</sup>	R			Р	3		ZOO 4205C	Invertebrate Biodiversity	R	L	Α		4	
<b>BOT 3802</b>	Ethnobotany <sup>2</sup>	R			Р	3		ZOO 4272	Ornithology	R		Α		3	
BOT 3018C	Cul Botany Across the Cultures	R	L		Р	4		ZOO 4310C	Vertebrate Evolution & Ecolog	gy R	L	Α		4	
BOT 4223C	Plant Anatomy	R	L		Р	4		ZOO 4405C	Sea Turtle Ecology, Conserv In	ntern R	L	Α		3	
BOT 4303C	Plant Kingdom	R	L		Р	4		ZOO 4462C	Herpetology	R	L	Α		4	
BOT 4503C	Plant Physiology	R	L		Р	4		ZOO 4480	Mammalogy	R		Α		4	
BOT 4713C	Plant Taxonomy	R	L		Р	5		ZOO 4480L	Mammalogy Lab	R	L			1	
BSC 3052	Conservation Biology	R				3		ZOO 4910L	Res in Animal Beh. in a Zoo En	ıv R	L	Α		3	
BSC 3312	Principles of Marine Biology	R				3									
BSC 3403C	Quantitative Biological Methods					4			Only a few elective courses are o	offered each	como	ctor	M/a c		ct
BSC 3453C	Bio Res. Meth & Exp Design	R				3									
BSC 4312C	Advanced Marine Biology	R	L			4		perjorn	ning class search using Departm	ient > Biolog)	/ (to ji	na k	eiec	:tive c	ourses)
BSC 4330	Invasion Biology	R				3			Current & IP Total:	/ 22	Nic	o do	۷٠	22	
BSC 4445C	Genomics Laboratory	R	L			4			Current & IP Total.	/	INE	eue	u	22	
Requirements Animal/Zoology Plant / Botany Lab A (L*) 10+ Residence															
Met				-	se (P)	,		Lab B (L)	Elective Hours		 1 []		$\Box$	$\overline{\Box}$	

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**

<b>General Education Progra</b> Your GEPs are (com	m plete or not complete).				
	ngy department. You may	wish to choo-			0+) of your choice that can be ring semesters when you are taking
About the Biology Exit Ex	am: https://academicsucc	ess.ucf.edu/u	tc/biology/		
		PRO.	JECTED SCHEDULE		
Semester		Semester		Semester	
Semester		Semester		Semester	