TRACK NAME UCF ID DATE



## **Biology Roadmap 2024-2025**



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

	Common Pro	gram Pr	erequisit	es - "C" (2.0)	or better i	in each course				
		Credits	Status				Credits	Status		
BSC2010C	Biology I (GEP)	4		CHM2210	Organ	nic 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 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 satisfie	d by CHM2205 followed by CHM3120 and	CHM3120L			
CHM2046	Chemistry Fundamentals II	3				. ,				
	PR: CHM 2045C, and MAC 1105C or MPT			Е	Biology Co	re Requirements: "C" (2.0) or better in e	ach course			
CHM2046L	Chemistry Fundamentals Lab	1					Credits	Status		
	PR or CR: CHM2046			PCB3044*	Princi	ples of Ecology	3			
						PR: CHM2045, BSC 2010C & BSC2011C				
MAC2311C	Calculus with Analytic Geometry I	4		PCB3063*	Genet		3			
OR	PR: MAC1140C & MAC1114C, or MPT					PR: BSC2011C or CHM2046	_			
MAC2233	Concepts of Calculus	3		PCB3023*		cular Cell Biology	3			
	PR: MAC 1140C or MPT			Dep 4600*		M2210 or CHM2205 or CHM3120, and BSC2010C, and PC				
CT42022	Charles and Marker de L/CED)	2		PCB4683*	Evolut	tionary Biology	4			
STA2023	Statistical Methods I (GEP)	3		14/242 21/ 6	6	PR: JR Standing & PCB 3063				
	PR: MGF 1106 or any MAC course			Were all for		YES   nothing further needed				
PHY2053	College Physics I	3		taken at l		NO   check overall UL residency:	of .	23		
	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	1			
	Also satisfied by PHY 2053C (4cr, Lab included)			Choose one	PCB4683L	Evolutionary Biology Lab				
	Also satisfied by PHY 2048C, or PHY 2048 & Lab (PR: MAC2312	(C)				· · ·				
				Lab B	A seco	ond Lab A course, or other lab elective (see sec	cond page)			
PHY2054	College Physics II	3				Upper Level Electives				
	PR: PHY 2053				22	Credit Hours of Electives - See Second Pa	iae			
PHY2054L	College Physics II Lab	1				<u> </u>	<i>y</i> -			
	PR or CR: PHY 2054					Other Requirements				
	Also satisfied by PHY 2054C (4cr, Lab included)			ι	JCF GPA	Major GPA	Exit			
	Also satisfied by PHY 2049C, or PHY 2049 & Lab (PR: PHY 2048	& MAC231	2)		2	2.0 minimum 2.0 minimum	Exam*	Ш		
	* The Biology Exit Exam covers the following core	courses: E	Biology I, B	Biology II, Genet	ics, Ecology	y, Molecular Cell Biology, and Evolutionary Bio	ology.			

٢2	Biology Major B.S. – Pre-Health Track Upper Division Restricted Electives (22 hrs)												۲2		
Y.	<b>KEY:</b> R = Elective Residency	y (Taugl	nt by	/ UCF	Bic	logy De	ot) <b>L</b> = L	_ab Option							U
	Course Detail	R	L	Α	Р	Cr	Status		Course Detail	R	L	Α	Р	Cr	Status
REQUIRED	- MUST COMPLETE	<b>"C</b>	" or			equired		BSC 4445C	Genomics Laboratory	R	L			4	
BCH 4024	Medical Biochemistry					4		BSC 4456C	Programming for Biologists	R				3	
BCH 4053	Biochemistry IOR					3		BSC 4473C	Scientific Diving	R				4	
MCB 3020C	General Microbiology		L			5		BSC 4821	Biogeography	R				4	
PCB 4723	Animal Physiology	R		Α		4		ENY 4004C	General Entomology	R	L	Α		4	
ZOO 3713	Comparative Vertebrate Anatomy	R		Α		4		ENY 4455C	Social Insect Behavior	R	L	Α		4	
ZOO 4603C	Embryology/Development	R	L	Α		5		OCE 3008	Oceanography	R				3	
	D - COMPLETE AT LEAST 3	Addi	tion	al Fr	om <i>i</i>	Above, o	r:	PAZ 4234	Zoo and Aquarium Management	R				3	
BCH 4054	Biochemistry II					3		PCB 3044L	Principles of Ecology Lab	R	L*			1 -	
BOT 4850	Medical Botany	R			Р	3		PCB 3063L	Genetics Laboratory	R	L*			1	
BSC 4927	Sci and Public Engage for Bio Majors	R				3		PCB 3354	Tropical Ecology and Conservation	R				3	
PCB 3233	Immunology					3		PCB 3355L	Tropical Marine Biology	R				2	
PCB 3522	Molecular Biology I					3		PCB 3442	Aquatic Ecology	R				3	
PCB 3703C	Human Physiology					4		PCB 4301C	Wetland Ecology & Biogeochem.	R	L			4	
PCB 4514	Epigenetics	R				3		PCB 4353	Fl Ecology, Natural History & Cons	R				3 -	
PCB 4524	Molecular Biology II					3		PCB 4353L	Florida Ecology Lab	R	- 1			1 -	
BSC 4912	Directed Independent Research <sup>1</sup>	R				3-4		PCB 4932	Population Ecology	R	-			3 -	
BSC 4941	Biology Internship <sup>1</sup>	R				3-4		PCB 4402	Disease Ecology & Ecoimmunology	R				3 -	
ZOO 3733C	Human Anatomy	••				4		PCB 4408	Urban Ecology	R				3 -	
ZOO 4513	Animal Behavior	R		Α		3		PCB 4413	Sensory Ecology	R				3 -	
ZOO 4756C	Comparative Vertebrate Histology	R	1	Α		4 _		PCB 4575	Wildlife Genomics	R				3 -	
200 1700	comparative vertexiate instalogy		_	,,				PCB 4683L	Evolutionary Biology Lab	R	L*			1 -	
NON-TRAC	K / GENERAL TRACK OPTIONS							ZOO 3001	Integrated Principles of Zoology	R	_	Α			
ANT 3550C	Primatology			Α		3		ZOO 3454	Ichthyology	R		A		3 -	
ANT 4516	Human Biological Diversity					3 _		ZOO 3713L	Comp Vert Anat Lab	R	1			1 -	
BOT 3015	Principles of Plant Science <sup>2</sup>	R			Р	3 _		ZOO 4205C	Invertebrate Biodiversity	R	-	Α			
BOT 3802	Ethnobotany <sup>2</sup>	R			P	3 -		ZOO 4272	Ornithology	R		A		ີ -	
BOT 3018C	Cul Botany Across the Cultures	R	1		P	<u> </u>		ZOO 4272 ZOO 4310C	= -	R	ı	A			
BOT 4223C	Plant Anatomy	R	L		Р	7 -		ZOO 4310C	<u>.</u>	R	ı	A		2 _	
BOT 4223C	Plant Kingdom	R	L		P	4 <u> </u>		ZOO 4462C	Herpetology	R	L	A		7 -	
BOT 4503C	Plant Physiology	R	L		P	4 -		ZOO 4480 ZOO 4480	Mammalogy	R	L	A		4 _	
BOT 4303C	Plant Taxonomy	R	L		P	<del>-</del> -		ZOO 4480L	Mammalogy Lab	D D	1	^		1 -	
BSC 3052	Conservation Biology	R	L		r	3 _		ZOO 4480L ZOO 4910L	Res in Animal Beh. in a Zoo Env	R	L	Α		, _	
BSC 3312	Principles of Marine Biology					3 _					L			· -	
BSC 3403C	Quantitative Biological Methods	R							Only a few elective courses are offered each semester. We suggest						t
BSC 3403C	Bio Res. Meth & Exp Design	D				3 -		performing class search using Department > Biology (to find "R" elective courses)						ourses)	
BSC 3453C BSC 4312C	Advanced Marine Biology	R	1			3 _									
	σ,	R	L			4 _		Cu	rrent & IP Total:/	22	N	eede	d:		
BSC 4330	Invasion Biology	R	<u> </u>			3		1 1 4 (1 5)							
Requirer	ments Animal/Zoology		Pla	ant /	Ro.	tany		Lab A (L*) 10+ Residence						in addition to	
Met	t: Course (A)		(	Cour	se (	P) <sup>2</sup>		Lab B (L)	Elective Hours (R)						13cr of Core

<sup>&</sup>lt;sup>1</sup> You may only earn a MAXIMUM OF 4 CREDIT HOURS from internship, research and independent study (collectively) towards your Biology electives.

NAME UCF ID DATE

## **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