TRACK NAME UCF ID DATE



## **Biology Roadmap 2021-2024**



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

	Common Prog	ram Pr	erequisit	es - "C" (2.0)	or better i	n each cours	se		
	-	Credits	Status					Credits	Status
BSC2010C	Biology I (GEP)	4		CHM2210	Organ	ic Chemistry I	1	3	
	PR: High school biology					PR: CHM 2046			
BSC2011C	Biology II	4		CHM2211	Organ	ic Chemistry I	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			Also sutisfiet	a by Criwi2203	Johowed by Criwi3120	ana Criwi3120L	
	PR: CHM 2045C, and MAC 1105C or MPT			В	iology Cor	re Requirem	ents: "C" (2.0) or better i	n each course	
CHM2046L	Chemistry Fundamentals Lab	1						Credits	Status
	PR or CR: CHM2046			PCB3044*	Princip	ples of Ecolog	У	3	
						PR: CHM2045,	BSC 2010C & BSC2011C		
MAC2311C	Calculus with Analytic Geometry I	4		PCB3063*	Genet	ics		3	
OR	PR: MAC1140C & MAC1114C, or MPT					PR: BSC2011C			
MAC2233	Concepts of Calculus	3		PCB3023*	Molec	ular Cell Biolo	ogy	3	
	PR: MAC 1140C or MPT						05 or CHM3120, and BSC2010C, an	d PCB3063	
				PCB4683*	Evolut	tionary Biolog	· <del>-</del>	4	
STA2023	Statistical Methods I (GEP)	3				PR: JR Standing	; & PCB 3063		
	PR: MGF 1106 or any MAC course			Were all fo		YES 🗆	nothing further needed	l	
PHY2053	College Physics I	3		the above c		NO 🗆	check overall UL resider	ncy: of	23
PH12055	PR: MAC 1114C or higher, or MPT	3		tukenut C	ICF!	Unner I	evel Lab Requirements		
D. 1./20521		4			DCD20441	• •	•		
PHY2053L	College Physics I Lab	1		Lab A	PCB3044L	Principles of E		4	
	PR or CR: PHY 2053			Choose one	PCB3063L	Genetics Labo	•	1	
	Also satisfied by PHY 2053C (4cr, Lab included) Also satisfied by PHY 2048C, or PHY 2048 & Lab (PR: MAC2311C	')			PCB4683L	Evolutionary	Biology Lab		
	7.130 Satisfied by 1111 20 100, 01 1111 20 10 a 200 (111. 1111 1025)	,		Lab B	A seco	nd Lab A coui	rse, or other lab elective (see	second page)	
PHY2054	College Physics II	3					per Level Electives	. 5 /	
	PR: PHY 2053				22.			1.0	
PHY2054L	College Physics II Lab PR or CR: PHY 2054				22 (	credit Hours	of Electives - See Second	ı Page	
						Ot	her Requirements		
	Also satisfied by PHY 2054C (4cr, Lab included)	1	JCF GPA		Major GPA	Exit			
	Also satisfied by PHY 2049C, or PHY 2049 & Lab (PR: PHY 2048 &	& MAC231	2)		-	 2.0 minimum	2.0 minimum	Exam*	
	* The Biology Exit Exam covers the following core c	ourses: E	Biology I, E	Biology II, Genet	ics, Ecology	ı, Molecular C	Cell Biology, and Evolutionary	/ Biology.	

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~	Biology Majo	k l	Upper Division Restricted Electives (22 hrs)  Lab Option A = Animal/Zoology Option P = Plant/Botany Option							7					
	KEY: R = Elective Residency (Taught by UCF Biology Dept) L:										<b>L</b> = Lab				
	Course Detail	R	L /	<b>4</b> Р	Cr	Sta	tus		Course Detail	R	L	Α	Р	Cr	Status
REQUIRED -	- MUST COMPLETE	"C"	or b	etter i	require	ed	P	CB 3044L	Principles of Ecology Lab	R	L*			1	
BOT 3015	Principles of Plant Science	R		Р	3		P	CB 3063L	Genetics Laboratory	R	L*			1	
GROUP A:	Complete 2 credits	ONL	LY the	follo	wing c	ourses:	P	CB 3233	Immunology					3	
BOT 4922	Plant Science Capstone	R			2		P	CB 3355L	Tropical Marine Biology	R				2	
XXX 4941	Arboretum Internship <sup>1</sup>	R			2		P	CB 3442	Aquatic Ecology	R				3	
BOT 4970H	Biology Honor's Thesis	R			3		P	CB 3522	Molecular Biology I					3	
GROUP B:	Complete 5+ credits	Add	dition	al Fra	m Abo	ve, or:	P	CB 3703C	Human Physiology					4	
BOT 3802	Ethnobotany	R		Р	3		P	CB 4301C	Wetland Ecology & Biogeochem.	R	L			4	
BOT 4223C	Plant Anatomy	R	L	Р	4		P	CB 4353	Fl Ecology, Natural History & Cons	R				3	
BOT 4303C	Plant Kingdom	R	L	Р	4		P	CB 4353L	Florida Ecology Lab	R	L			1	
BOT 4503C	Plant Physiology	R	L	Р	4		P	CB 4402	Disease Ecology & Ecoimmunology	/ R				3	
BOT 4713C	Plant Taxonomy	R	L	Р	5		P	CB 4408	Urban Ecology	R				3	
BOT 4850	Medical Botany	R		Р	3		P	CB 4413	Sensory Ecology	R				3	
BSC 3453C	Bio Res. Meth & Exp Design	R			3		P	CB 4514	Epigenetics	R				3	
	, G						P	CB 4524	Molecular Biology II					3	
GROUP C:	Complete 9+ credits	Ado	dition	al Fro	m Abo	ove, or:	P	CB 4575	Wildlife Genomics	R				3	
	Cul Botany Across the Cultures		L	Р				CB 4683L	Evolutionary Biology Lab	R	L*			1	
	Invasion Biology	R			3			CB 4723	Animal Physiology	R		Α		4	
BSC 4927	Sci and Public Engage for Bio Majors	R			3			CB 4932	Population Ecology	R				3	
	Tropical Ecology and Conservation	R			3			200 3001	Integrated Principles of Zoology	R		Α		3 -	
					_			200 3454	Ichthyology	R		Α		3	
NON-TRACE	K / GENERAL TRACK OPTIONS							200 3713	Comparative Vertebrate Anatomy	R		Α		4	
ANT 3550C	Primatology			4	3			200 3733C	Human Anatomy					4	
ANT 4516	Human Biological Diversity				3			200 4205C	Invertebrate Biodiversity	R	L	Α		4	
BCH 4053	Biochemistry I				3			200 4272	Ornithology	R		Α		3	
BSC 3052	Conservation Biology	R			3			200 4310C	Vertebrate Evolution & Ecology	R	L	Α		4	
BSC 3312	Principles of Marine Biology	R			3			OO 4405C	Sea Turtle Ecology, Conserv Intern	R	L	Α		3	
BSC 3403C	Quantitative Biological Methods				4			OO 4462C	Herpetology	R	L	Α		4	
BSC 4312C	Advanced Marine Biology	R	L		4			200 4480	Mammalogy	R		Α		4	
BSC 4445C	Genomics Laboratory		L		4			200 4513	Animal Behavior	R		Α		3	
BSC 4456C	Programming for Biologists	R			3			OO 4603C	Embryology/Development	R	L	Α		5 -	
BSC 4473C	Scientific Diving	R			4			200 4756C	Comparative Vertebrate Histology		Ī	Α		4	
BSC 4821	Biogeography	R			4				,	.,	_			_	
ENY 4004C	General Entomology	_	L	4	4									_	
	Social Insect Behavior	R		Д	4			Only a few elective courses are offer		= =					
	General Microbiology		Ī,	-	5			perforn	ning class search using Department	> Biology	(to j	ind "F	R" elei	ctive co	ourses)
OCE 3008	Oceanography	R	_		3					1					
PAZ 4234	Zoo and Aquarium Management	R			3			Cu	rrent & IP Total:	_/ 22	1	leed	ed: ˌ		
Requiren		Plant / Botany						Lab A (L*) 10+ Residence						in addition	
Met	,			urse (	_ '			Lab B (L)	Elective Hours (R)					1	in adaition to 13cr of Coi

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