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 second Lab A course, or other lab elective (see second 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.			

*	Biology Majo	or B.S	5. –	Plan	t Sc	ience	Track	Upper Division Restricted Electives (22 hrs)							\
	KEY: R = Elective Residency	(Taug	ht by	/ UCF	Biol	ogy De	pt) L = L	ab Option	A = Animal/Zoology Option P =	Plant/Bo	tany	Optio	n		
	Course Detail	R	L	Α	Р	Cr	Status		Course Detail	R	L	Α	Р	Cr	Status
REQUIRED	- MUST COMPLETE	"(C" or	bette	er re	quired		PCB 3354	Tropical Ecology and Conservation	R				3	
BOT 3015	Principles of Plant Science	R			Р	3		PCB 3355L	Tropical Marine Biology	R				2	
RESTRICTE	D - COMPLETE AT LEAST 4							PCB 3442	Aquatic Ecology	R				3	
BOT 3802	Ethnobotany	R			Р	3		PCB 3522	Molecular Biology I					3	
BOT 4223C	Plant Anatomy	R	L		Р	4		PCB 3703C	Human Physiology					4	
BOT 4303C	Plant Kingdom	R	L		Р	4		PCB 4301C	Wetland Ecology & Biogeochem.	R	L			4	
BOT 4503C	Plant Physiology	R	L		Р	4		PCB 4353	Fl Ecology, Natural History & Cons	R				3	
BOT 4713C	Plant Taxonomy	R	L		Р	5		PCB 4353L	Florida Ecology Lab	R	L			1	
BOT 4922	Plant Science Capstone	R						PCB 4402	Disease Ecology & Ecoimmunology	/ R				3	
BOT 4941	Plant Science Internship ¹	R						PCB 4408	Urban Ecology	R				3	
BOT 4850	Medical Botany	R			Р	3		PCB 4413	Sensory Ecology	R				3	
BSC 4927	Sci and Public Engage for Bio Majors	R				3		PCB 4514	Epigenetics	R				3	
						_		PCB 4524	Molecular Biology II					3	
NON-TRAC	K / GENERAL TRACK OPTIONS							PCB 4575	Wildlife Genomics	R				3	
ANT 3550C	Primatology			Α		3		PCB 4683L	Evolutionary Biology Lab	R	L*			1	
ANT 4516	Human Biological Diversity					3		PCB 4723	Animal Physiology	R		Α		4	
BCH 4053	Biochemistry I					3		PCB 4932	Population Ecology	R				3	
BCH 4054	Biochemistry II					3		ZOO 3001	Integrated Principles of Zoology	R		Α		3	
BOT 3018C	Cul Botany Across the Cultures	R	L		Р	4		ZOO 3454	Ichthyology	R		Α		3	
BSC 3052	Conservation Biology	R				3		ZOO 3713	Comparative Vertebrate Anatomy	R		Α		4	
BSC 3312	Principles of Marine Biology	R				3		ZOO 3713L	Comp Vert Anat Lab	R	L			1	
BSC 3403C	Quantitative Biological Methods					4		ZOO 3733C	Human Anatomy					4	
BSC 3453C	Bio Res. Meth & Exp Design	R				3		ZOO 4205C	Invertebrate Biodiversity	R	L	Α			
BSC 4310	Service Learning Marine Conserv	R				3		ZOO 4272	Ornithology	R		Α		3	
BSC 4312C	Advanced Marine Biology	R	L			4		ZOO 4310C	Vertebrate Evolution & Ecology	R	L	Α			
BSC 4330	Invasion Biology	R				3		ZOO 4405C	Sea Turtle Ecology, Conserv Intern	R	L	Α		3	
BSC 4445C	Genomics Laboratory	R	L			4		ZOO 4462C	Herpetology	R	L	Α		4	
BSC 4456C	Programming for Biologists	R				3		ZOO 4480	Mammalogy	R		Α		4	
BSC 4473C	Scientific Diving	R				4		ZOO 4480L	Mammalogy Lab	R	L			1 -	
BSC 4821	Biogeography	R				4		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 Histology		Ī	Α		4	
MCB 3020C			L			5		ZOO 4910L	Res in Animal Beh. in a Zoo Env	R	L	Α		3 -	
OCE 3008	Oceanography	R	_			3 -					_				
PAZ 4234	Zoo and Aquarium Management	R				3 _		Only a few elective courses are offered each semester. We suggest							
PCB 3044L	Principles of Ecology Lab	R	L*			1 -		perform	ning class search using Department	> Biology	(to f	ind "F	R" eled	ctive co	ourses)
PCB 3063L	Genetics Laboratory	R	L*			1 -							_		
PCB 3233	Immunology	11	_			3 -		Cu	rrent & IP Total:	_ / 22	1	leed	ed: _		
Requirer	<u> </u>	Plant / Botany				anv		Lab A (L*) 10+ Residence					in addition		
-	· · · · · · · · · · · · · · · · · · ·														in addition to 13cr of Core
Met	· · · · · · · · · · · · · · · · · · ·			ours				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.

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