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	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 Major E	Biology Major B.S. – Marine and Aquatic Track Upper Division Restricted Electives (22 hrs)														
	KEY: R = Elective Residency	y (Taught by UCF Biology Dept) L =				y Dep	ot) L = l	ab Option								
	Course Detail	R			Р (Status		Course Detail		₹	L	Α	Р	Cr	Status
REQUIRED -	- COMPLETE AT LEAST 1		"C"	or be	etter re	quire	ed .	BSC 4456C	Programming for Biologists	ı	3				3	
BSC 3312	Principles of Marine Biology	R				3 _		BSC 4821	Biogeography	ı	3				4	
OCE 3008	Oceanography	R				3		ENY 4004C	General Entomology	ı	3	L	Α		4	
PCB 3442	Aquatic Ecology	R				3		ENY 4455C	Social Insect Behavior	ı	₹	L	Α		4	
RESTRICTE	D - COMPLETE AT LEAST 4	Α	dditi	onal	From A	bove	, or:	MCB 3020C	General Microbiology			L			5	
BSC 4312C	Advanced Marine Biology	R	L			4		PCB 3044L	Principles of Ecology Lab	ı	3	L*			1	
BSC 4310	Service Learning Marine Conserv	R				3		PCB 3063L	Genetics Laboratory	ı	3	L*			1	
BSC 4473C	Scientific Diving	R				4		PCB 3233	Immunology						3	
BSC 4927	Sci and Public Engage for Bio Majors	R				3 _		PCB 3354	Tropical Ecology and Conservat	ion I	3				3	
PCB 4301C	Wetland Ecology & Biogeochemistry	R	L			4		PCB 3522	Molecular Biology I						3	
PCB 4413	Sensory Ecology	R				3		PCB 3703C	Human Physiology						4	
PAZ 4234	Zoo and Aquarium Management	R				3		PCB 4353	Fl Ecology, Natural History & Co	ns I	3				3	
ZOO 3454	Ichthyology	R		Α		3		PCB 4353L	Florida Ecology Lab		₹	L			1	
ZOO 3713	Comparative Vertebrate Anatomy	R		Α		4		PCB 4402	Disease Ecology & Ecoimmunol	ogy I	2				3	
ZOO 4205C	Invertebrate Biodiversity	R	L	Α		4		PCB 4408	Urban Ecology		₹				3	
ZOO 4405C	Sea Turtle Ecology, Conserv Intern	R	L	Α		3		PCB 4514	Epigenetics	ı	3				3	
ZOO 4462C	Herpetology	R	L	Α		4		PCB 4524	Molecular Biology II						3	
ZOO 4480	Mammalogy	R		Α		4		PCB 4575	Wildlife Genomics	ı	3				3	
								PCB 4683L	Evolutionary Biology Lab	ı	3	L*			1	
NON-TRACI	K / GENERAL TRACK OPTIONS							PCB 4723	Animal Physiology	ı	3		Α		4	
ANT 3550C	Primatology			Α		3		PCB 4932	Population Ecology	1	3				3	
ANT 4516	Human Biological Diversity					3		ZOO 3001	Integrated Principles of Zoology	/ 1	3		Α		3	
BCH 4024	Medical Biochemistry					4		ZOO 4272	Ornithology		3		Α		3	
BCH 4053	Biochemistry I					3		ZOO 4310C	Vertebrate Evolution & Ecology	· I	3	L	Α		4	
BCH 4054	Biochemistry II					3 —		ZOO 4513	Animal Behavior	ı	R		Α		3	
BOT 3015	Principles of Plant Science 2	R			P	3		ZOO 4480L	Mammalogy Lab	ı	2	L			1	
BOT 3802	Ethnobotany ²	R			Р	3 —		ZOO 4513	Animal Behavior	ı	R		Α		3	
BOT 3018C	Cul Botany Across the Cultures	R	L		Р .	4		ZOO 4603C	Embryology/Development	ı	2	L	Α		5	
BOT 4223C	Plant Anatomy	R	L		Ρ .	4 _		ZOO 4756C	Comparative Vertebrate Histolo	ogv I	3	L	Α		4	
BOT 4303C	Plant Kingdom	R	L		Р .	4		ZOO 4910L	Res in Animal Beh. in a Zoo Env	• .	3	L	Α		3	
BOT 4503C	Plant Physiology	R	L		Р	4		ZOO 3713L	Comp Vert Anat Lab		3	L			1	
BOT 4713C	Plant Taxonomy	R	L		Р	5		ZOO 3733C	Human Anatomy						4	
BOT 4850	Medical Botany	R			P	3		1	,						_	
BSC 3052	Conservation Biology	R				3			anh. a fam alastina a coma		L - :		4	14/-		
BSC 3403C	Quantitative Biological Methods					_			only a few elective courses are of							
BSC 3453C	Bio Res. Meth & Exp Design	R				3		perforn	ning class search using Departme	nt > Biolog	gy (t	to fin	id "R	" elec	tive co	ourses)
BSC 4330	Invasion Biology	R				3				/ 22		-				
BSC 4445C	Genomics Laboratory	R	L			4 _		Cui	rrent & IP Total:	/ 22		Ne	ede	ea: _		
Requirements Animal/Zoology Plant / Botar			Botan	у		Lab A (L*)	10+ Residence	9						in addition to		
Met	: Course (A)		C	Cours	se (P) ²			Lab B (L)	Elective Hours (R)						13cr of Core

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