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			DOD 4500*		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 Upper Level Electives	cond page)	
PHY2054	College Physics II	3						
	PR: PHY 2053				22	Credit Hours of Electives - See Second Pa	iae	
PHY2054L	College Physics II Lab					<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 B.S. – Zoology and Pre-Veterinary Track Upper Division Restricted Electives (22 hrs)													
	KEY: R = Elective Residency (Taught by UCF Biology Dept) L = La					ab Option								
	Course Detail	R	L	A P	Cr	Status		Course Detail	R	L	Α	Р	Cr	Status
REQUIRED -	- COMPLETE AT LEAST 2	"C	" or k	etter	required		BOT 4713C	Plant Taxonomy	R	L		Р	5	
PCB 4723	Animal Physiology	R		Α	4		BOT 4850	Medical Botany	R			Р	3	
ZOO 3001	Integrated Principles of Zoology	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 4513	Animal Behavior	R		Α	3		BSC 3403C	Quantitative Biological Method	S				4	
RESTRICTED	O - COMPLETE AT LEAST 3	Addit	iona	From	Above, o	r:	BSC 3453C	Bio Res. Meth & Exp Design	R				3	
ANT 3550C	Primatology	_		Α	3		BSC 4310	Service Learning Marine Conser	rv R				3	
BCH 4024	Medical BiochemistryOR				4		BSC 4312C	Advanced Marine Biology	R	L			4	
BCH 4053	Biochemistry I				3		BSC 4330	Invasion Biology	R				3	
BSC 4821	Biogeography	R			4		BSC 4445C	Genomics Laboratory	R	L			4	
BSC 4927	Sci and Public Engage for Bio Majors	R			3		BSC 4456C	Programming for Biologists	R				3	
ENY 4004C	General Entomology	R	L	Α	4		BSC 4473C	Scientific Diving	R				4	
ENY 4455C	Social Insect Behavior	R	L	Α	4		OCE 3008	Oceanography	R				3	,
MCB 3020C	General Microbiology		L		5		PCB 3044L	Principles of Ecology Lab	R	L*			1	
PAZ 4234	Zoo and Aquarium Management	R			3		PCB 3063L	Genetics Laboratory	R	L*			1	
PCB 4402	Disease Ecology & Ecoimmunology	R			3		PCB 3233	Immunology					3	
PCB 4575	Wildlife Genomics	R			3		PCB 3354	Tropical Ecology and Conservat	ion R				3	
ZOO 3454	Ichthyology	R		Α	3		PCB 3355L	Tropical Marine Biology	R				2	
ZOO 4205C	Invertebrate Biodiversity	R	L	Α	4		PCB 3442	Aquatic Ecology	R				3	
	Ornithology	R		Α	3		PCB 3522	Molecular Biology I					3	
ZOO 4310C	Vertebrate Evolution & Ecology	R	L	Α	4		PCB 3703C	Human Physiology					4	
	Sea Turtle Ecology, Conserv Intern	R	L	Α	3		PCB 4301C	Wetland Ecology & Biogeochem	n. R	L			4	
	Herpetology	R	L	Α	4		PCB 4353	Fl Ecology, Natural History & Co					3	
ZOO 4480	Mammalogy	R		Α	4		PCB 4353L	Florida Ecology Lab	R	L			1	
	Embryology/Development	R	L	Α	5		PCB 4408	Urban Ecology	R				3	
	Comparative Vertebrate Histology	R	L	Α	4		PCB 4413	Sensory Ecology	R				3	
	Res in Animal Beh. in a Zoo Env	R	L	Α	3		PCB 4514	Epigenetics	R				3	
							PCB 4524	Molecular Biology II					3	
							PCB 4683L	Evolutionary Biology Lab	R	L*			1	
NON-TRACK	K / GENERAL TRACK OPTIONS						PCB 4932	Population Ecology	R				3	
ANT 4516	Human Biological Diversity				3		ZOO 3713L	Comp Vert Anat Lab	R	L			1	
	Biochemistry II				3		ZOO 3733C	Human Anatomy					4	
	Principles of Plant Science ²	R		Р	3		ZOO 4480L	Mammalogy Lab	R	L			1	
BOT 3802	Ethnobotany ²	R		Р	_						a t a::	14/-	-	
	Cul Botany Across the Cultures	R	L	Р	4			Only a few elective courses are of	-					
	Plant Anatomy	R	L	Р	4		perforn	ning class search using Departme	nt > Biology	(to f	ınd "R	" ele	ctive c	ourses)
	Plant Kingdom	R	L	Р	_			word C ID Total	/ 22		امما	- ام		
	Plant Physiology	R	L	Р	4		Cu	rrent & IP Total:	/ 22	I\	leed	ea: .		
Requirements Animal/Zoology Plant / Botany					Lab A (L*)	10+ Residence	e					in addition to		
Met	: Course (A)		Co	ourse	(P) ²		Lab B (L)	Elective Hours (R)					13cr of Core

DATE

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