

Biology: Ecology and Evolution concentration

This page is subject to change as courses are added, cancelled, or adjusted.

Courses with the statement 'Will Require a PERMIT' next to them will require you to [submit a permit](#) in order to register for the course.

Please keep in mind, other courses may still require a permit if there is an error in the system out of our control.

Spring 2025 Classes

Evolution/Biodiversity Req. List:

Biology Majors with an Ecology & Evolution concentration **MUST** complete at least one lecture and lab combination to meet graduation requirements. However, if you choose to take additional courses they will count as major electives:

Code	Title	Pre-Reqs	Campus	Notes
BOT 3015C	General Botany	BSC 2010 or BSC 2011	St. Pete	
MCB 3020	General Microbiology	BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2046	Tampa, St. Pete, & Sarasota-Manatee	May require a PERMIT if registering without the lab or if you haven't completed CHM 2210
MCB 3020L	General Microbiology Lab	Pre-Req/Co-Req: MCB 3020	Tampa, St. Pete, & Sarasota-Manatee	

Ecology Req. List:

Biology Majors with an Ecology & Evolution concentration **MUST** complete at least one course from the below list to meet graduation requirements. However, if you choose to take additional courses they will count as major electives:

Code	Title	Pre-Reqs	Campus	Notes
BSC 4052	Conservation Biology	PCB 3043	Tampa & St. Pete	May require a PERMIT if you haven't completed MAC 2311/2241
BSC 4933	Community Ecology	PCB 3043 or Consent of Instructor	St. Pete	Will Require a PERMIT
BSC 4933	Fisheries Ecology & Sustainability	PCB 3043	Tampa	Will Require a PERMIT
BSC 4933	Forest Ecology	PCB 3043	Tampa	Will Require a PERMIT
BSC 4933	Global Change Biology	BSC 2011	Tampa	Will Require a PERMIT
BSC 4933	Marine Climate Change	BSC 3312 or PCB 3043	Tampa	Will Require a PERMIT
PCB 4315	Marine Ecology	BSC 3312	St. Pete	

Ecology/Evolution Restricted Electives:

Biology Majors with an Ecology & Evolution concentration MUST complete a minimum of 6 credit hours from the below list to meet graduation requirements.

Code	Title	Pre-Reqs	Campus	Notes
BOT 3152C	Field Botany	BSC 2011, BSC 2011L	Tampa	Restricted to Senior Ecology/Evolution Concentration students until Dec. 3 rd
BSC 3312	Marine Biology	BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2046	Tampa & St. Pete	
BSC 4284	Symbiosis & The Environment	PCB 3043	Tampa	
BSC 4444	Genomics	PCB 3063	St. Pete	
BSC 4454C	Digital Dinosaurs	BSC 2011, BSC 2011L	Tampa	
BSC 4933	Mechanisms of Aging	PCB 3023, PCB 3063	Tampa	Will Require a PERMIT
BSC 4933	Medical Bacteriology	MCB 3020, MCB 3020L	Tampa	Will Require a PERMIT If you have taken MCB 4115 previously, this course cannot be used toward your major.
BSC 4933	Medical Bacteriology Lab	Pre-Req/Co-Req: BSC 4933: Medical Bacteriology Lecture	Tampa	Will Require a PERMIT If you have taken MCB 4115L previously, this course cannot be used toward your major.
BSC 4933	Sociobiology	PCB 3063, PCB 3063L (MCB 3020, MCB 3020L, & PCB 3023 are recommended for success)	St. Pete	Will Require a PERMIT
BSC 4933	Sustainability of Natural Resources	BSC 2011	Tampa	Will Require a PERMIT
MCB 4276	Disease Biology	PCB 3063, PCB 3043	Tampa	
ZOO 4233	Parasitology	BSC 2011, BSC 2011L, CHM 2210	Tampa & St. Pete	
ZOO 4513	Animal Behavior	BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2046	Tampa	May require a PERMIT if you haven't completed or are registered for CHM 2211

Additional Biology Electives:

Biology Majors with an Ecology & Evolution concentration MUST also complete 3 credit hours of upper-level biology elective coursework to meet graduation requirements.

Code	Title	Pre-Reqs	Campus	Notes
BCH 3053	General Biochemistry	BSC 2010, BSC 2010L, CHM 2210	Tampa, St. Pete, & Sarasota-Manatee	**Only 1 Biochemistry course can count as an elective
BOT 3850	Medical Botany	BSC 2010, BSC 2011, CHM 2210	Tampa	
BSC 4315	Deep Sea Biology	C or better in BSC 2011 & BSC 2011L (BSC 3312 is recommended for success)	St. Pete	
BSC 4452	Computational Biology	CHM 2046, MAC 2312 or MAC 2242, STA 2023, PHY 2049 or PHY 2054 (knowledge of computer programming is recommended for success)	Tampa	
BSC 4851	Hollywood Biology	BSC 2010, BSC 2011, Junior/Senior Standing	Tampa & Sarasota-Manatee	
BSC 4910	Undergraduate Research	Consent of Instructor If interested in this type of credit, review our Undergraduate Research website	Tampa	Will require Consent of Instructor PERMIT
BSC 4933	Learning Assistant-Cancer Biology	PCB 4109	Tampa	Will require Consent of Instructor PERMIT
BSC 4933	Learning Assistant-Genetics	PCB 3063L	Tampa	Will require Consent of Instructor PERMIT
BSC 4933	Learning Assistant-Mechanisms of Aging	BSC 4933: Mechanisms of Aging & Consent of Instructor	Tampa	Will require Consent of Instructor PERMIT
BSC 4933	Learning Assistant-Molecular Biology	PCB 3023L/PCB 3063L Super-Lab	Tampa	Will require Consent of Instructor PERMIT
BSC 4933	Lectures in Contemporary Biology	Senior IB Major	Tampa	Will Require a PERMIT
BSC 4937	Seminar- Marine Biology	BSC 3312	Tampa	Restricted to Senior MRB/MRN majors until Dec. 3 rd
BSC 4940	Biology Internship	Please visit the Biology Internship Webpage for pre-reqs and instructions.	Tampa & St. Pete	Requires approval of Application
GIS 4043C	Geographic Information Systems	GIS 3006	Tampa & St. Pete	Will Require a PERMIT if GIS 3006 is not completed
MCB 3410	Cell Metabolism	BSC 2010, BSC 2010L, CHM 2046	Tampa	
MCB 4201	Bacterial Stress Responses	MCB 3020, MCB 3020L	Tampa	If you have taken the BSC 4933 version previously, this course cannot be used toward your major.
MCB 4320	Molecular Microbiology	MCB 3020, MCB 3020L, PCB 3023, PCB 3063	Tampa	May Require a PERMIT

Code	Title	Pre-Reqs	Campus	Notes
MCB 4810	Medical Mycology	MCB 3020, MCB 3020L	Tampa	If you have taken the BSC 4933 version previously, this course cannot be used toward your major.
PCB 3023	Cell Biology	BSC 2010, BSC 2010L, CHM 2046	Tampa	
PCB 3023L	Cell Biology Lab	Pre-Req/Co-Req: PCB 3023	Tampa	
PCB 3712	General Physiology	BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2046	Tampa & St. Pete	
PCB 3713L	General Physiology Lab	Pre-Req/Co-Req: PCB 3712	Tampa & St. Pete	
PCB 4024	Molecular Biology of the Cell	PCB 3023, PCB 3063, MCB 3410	Tampa	Restricted to Senior CAM/CBO majors until Dec. 3 rd
PCB 4026	Molecular Biology of the Gene	PCB 3023, PCB 3063, MCB 3410	Tampa	Restricted to Senior CAM/CBO majors until Dec. 3 rd
PCB 4109	Cancer Biology	PCB 3023, PCB 3063, MCB 3410	Tampa	Restricted to Senior CAM/CBO majors until Dec. 3 rd
PCB 4234	Principles of Immunology	PCB 3023 (a B or better in MCB 3020 & PCB 3023 are recommended for success)	Tampa & St. Pete	
PCB 4663	Human Genetics	PCB 3063, PCB 3023	Tampa	Will Require a PERMIT if PCB 3023 is not completed
PCB 4707	Survival Physiology	PCB 3712 or BSC 2093C	Sarasota-Manatee	
PCB 4744	Biomedical Physiology	PCB 3023	Tampa & Sarasota-Manatee	
PHZ 4702	Application of Physics to Biology and Medicine 1	PHY 2054 or PHY 2049, PHY 2054L or PHY 2049L	Tampa	
ZOO 3713C	Comparative Vertebrate Anatomy	BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2046	Tampa	Restricted to Senior Animal Concentration students until Dec. 3 rd
ZOO 4694	Developmental Biology	PCB 3023, PCB 3063	Tampa	