

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.

Summer 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
MCB 3020	General Microbiology	BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2046	Tampa & St. Pete	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	

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
OCB 3108	Marine Field Studies	BSC 2010, BSC 2011, CHM 2046	St. Pete	
PCB 4402	Disease Ecology	BSC 2010, BSC 2011	St. Pete	

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	**Only 1 Biochemistry course can count as an elective
BOT 4851	Plants and Human Health	BSC 2010 or BSC 2011	St. Pete	
BSC 4511	Marine & Freshwater Toxins	BSC 2010, BSC 2010, BSC 2011, BSC 2011L	Sarasota-Manatee	

Code	Title	Pre-Reqs	Campus	Notes
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 Asst. - Genetics	PCB 3063L and Consent of Instructor	Tampa	Will require Consent of Instructor PERMIT
BSC 4933	Physiology of Aging	BSC 2010 or BSC 2011. Upper-level course work in Physiology recommended.	St. Pete	Will require a PERMIT
BSC 4940	Biology Internship	Please visit the Biology Internship Webpage for pre-reqs and instructions.	Tampa	Requires approval of Application
ENY 4662	Medical & Applied Entomology	BSC 2011	St. Pete	
MCB 3410	Cell Metabolism	BSC 2010, BSC 2010L, CHM 2046	Tampa	
PCB 3023	Cell Biology	BSC 2010, BSC 2010L, CHM 2046	Tampa & St. Pete	
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 & Sarasota-Manatee	
PCB 3713L	General Physiology Lab	Pre-Req/Co-Req: PCB 3712	Tampa	
ZOO 4485	Marine Mammal Biology	BSC 3312	Sarasota-Manatee	

Fall 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
MCB 3020	General Microbiology	BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2046	Tampa & St. Pete	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	
ZOO 3205C	Advanced Invertebrate Zoology	BSC 2011, BSC 2011L, CHM 2046 (PCB 3043 or PCB 3063 or PCB 3712 are recommended for success)	Tampa & St. Pete	

Code	Title	Pre-Reqs	Campus	Notes
ZOO 4307	Vertebrate Zoology	BSC 2011, BSC 2011L (PCB 3043 or PCB 3063 or PCB 3712 are recommended for success)	Tampa	
ZOO 4307L	Vertebrate Zoology Lab	Pre-Req/Co-Req: ZOO 4307	Tampa	

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
PCB 3306	Stream Ecology	BSC 2010, BSC 2011, PCB 3043	St. Pete	
PCB 4408	Urban Ecology	PCB 3043	Tampa	

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 4714C	Plant Taxonomy	BSC 2011	St. Pete	
BSC 3312	Marine Biology	BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2046	Tampa & St. Pete	
BSC 4102	Knowing Life	BSC 2010, 2011	Tampa	If you have previously completed the BSC 4933 version of this course, BSC 4102 cannot be used toward your major.
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	Co/pre-req: BSC 4933: Medical Bacteriology	Tampa	Will Require a PERMIT If you have taken MCB 4115L previously, this course cannot be used toward your major.

Code	Title	Pre-Reqs	Campus	Notes
MCB 4503	Virology	MCB 3020, MCB 3020L	Tampa	
ZOO 4233	Parasitology	BSC 2011, BSC 2011L, CHM 2210	Tampa	
ZOO 4454	Fish Biology	BSC 2011, BSC 2011L	Tampa	
ZOO 4454L	Fish Biology Lab	ZOO 4454	Tampa	
ZOO 4513	Animal Behavior	BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2046	Sarasota-Manatee	May require a PERMIT if you haven't completed CHM 2210

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
ANS 3006	Animal Science	BSC 2011	Tampa	
BCH 3053	General Biochemistry	BSC 2010, BSC 2010L, CHM 2210	Tampa & St. Pete	**Only 1 Biochemistry course can count as an elective
BCH 4033	Advanced Biochemistry 1	BSC 2010, BSC 2010L, CHM 2211	Tampa	**Only 1 Biochemistry course can count as an elective
BOT 3850	Medical Botany	BSC 2010, BSC 2011, CHM 2210	Tampa	
BSC 4313C	Advanced Marine Biology	BSC 3312	Tampa	Restricted to graduating Senior MRB majors until April 21 st
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	Coastal Plants	BSC 2011	Tampa	Will Require a PERMIT
BSC 4933	Comparative Immunology	BSC 2011	Tampa	Will Require a PERMIT
BSC 4933	Genetic Engineering & DNA Technology	PCB 3023, PCB 3063 Highly recommend PCB 3023L & PCB 3063L labs as well	Tampa	Will Require a PERMIT
BSC 4933	Biomedical Drug Development	PCB 3023, PCB 3063	Tampa	Will Require a PERMIT If you have completed GPCR Drug Discovery this course can't be used for your major.
BSC 4933	Learning Asst. – Cancer Biology	PCB 4109 and Consent of Instructor	Tampa	Will require Consent of Instructor PERMIT

Code	Title	Pre-Reqs	Campus	Notes
BSC 4933	Learning Asst. - Cellular Proc	BSC 2010L and Consent of Instructor	Tampa	Will require Consent of Instructor PERMIT
BSC 4933	Learning Asst. - Mechanisms of Aging	BSC 4933: Mechanisms of Aging and Consent of Instructor	Tampa	Will require Consent of Instructor PERMIT
BSC 4933	Lectures in Contemporary Biology	Senior IB Major	Tampa	Will Require a PERMIT
BSC 4933	Ornithology	BSC 2011	Tampa	Will Require a PERMIT
BSC 4940	Biology Internship	Please visit the Biology Internship Webpage for pre-reqs and instructions.	Tampa	Requires approval of Application
GIS 4043C	Geographic Information Systems	GIS 3006	Tampa	
MCB 3410	Cell Metabolism	BSC 2010, BSC 2010L, CHM 2046	Tampa	
MCB 4203	Public Health & Pathogenic Microbiology	MCB 3020, MCB 3020L	Tampa	If you have previously completed the BSC 4933 version of this course, MCB 4203 cannot be used toward your major.
MCB 4320	Molecular Microbiology	MCB 3020, MCB 3020L, PCB 3023, PCB 3063	Tampa	May Require a PERMIT
PCB 3023	Cell Biology	BSC 2010, BSC 2010L, CHM 2046	Tampa & St. Pete	
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	
PCB 3713L	General Physiology Lab	Pre-Req/Co-Req: PCB 3712	Tampa	
PCB 4024	Molecular Biology of the Cell	PCB 3023, PCB 3063, MCB 3410	Tampa	Restricted to graduating Senior CBO majors until April 21 st
PCB 4026	Molecular Biology of the Gene	PCB 3023, PCB 3063, MCB 3410	Tampa	Restricted to graduating Senior CBO majors until April 21 st
PCB 4109	Cancer Biology	PCB 3023, PCB 3063, MCB 3410	Tampa	Restricted to graduating Senior CBO majors until April 21 st
PCB 4234	Principles of Immunology	PCB 3023	Tampa	
PCB 4522C	Experimental Genetics & Cell Bio	PCB 3023, PCB 3063, PCB 3023L, PCB 3063L and Consent of Instructor	Tampa	
PHZ 4702	App. of Physics to Biology & Med 1	PHY 2054 or PHY 2049, PHY 2054L or PHY 2049L	Tampa & St. Pete	

Code	Title	Pre-Reqs	Campus	Notes
ZOO 4485	Marine Mammal Biology	BSC 3312	St. Pete	
ZOO 4462C	Herpetology	BSC 2011	Tampa	
ZOO 4753	Human Histology & Molecular Pathology of Disease	PCB 3023, PCB 3063, CHM 2210	Tampa	May Require a PERMIT