

Biology: Medical Biology 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

Medical Biology Concentration Core:

Biology Majors with a Medical Biology concentration **MUST** complete at least two lecture and lab combinations from the list below 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 2093C | Human Anatomy and Physiology 1 | BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2045 | Tampa | |
| 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 | |
| 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 | |

Medical Biology Restricted Electives:

Biology Majors with a Medical Biology concentration **MUST** complete a minimum of 6 credit hours from the below list 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 4933 | Physiology of Aging | BSC 2010 or BSC 2011. Upper-level course work in Physiology recommended. | St. Pete | Will require a PERMIT |
| PCB 4402 | Disease Ecology | BSC 2010, BSC 2011 | St. Pete | |

Additional Biology Electives:

Biology Majors with a Medical Biology concentration **MUST** also complete 3 credit hours of upper-level biology elective coursework to meet graduation requirements.

| Code | Title | Pre-Reqs | Campus | Notes |
|----------|------------------------------|--|------------------|---|
| BSC 4511 | Marine & Freshwater Toxins | BSC 2010, BSC 2010L, BSC 2011, BSC 2011L | 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 Asst. - Genetics | PCB 3063L and Consent of Instructor | Tampa | Will require Consent of Instructor 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 | |
| OCB 3108 | Marine Field Studies | BSC 2010, BSC 2011, CHM 2046 | St. Pete | |
| ZOO 4485 | Marine Mammal Biology | BSC 3312 | Sarasota-Manatee | |

Fall 2025 Classes

Medical Biology Concentration Core:

Biology Majors with a Medical Biology concentration **MUST** complete at least two lecture and lab combinations from the list below 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 2093C | Human Anatomy and Physiology 1 | BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2045 | Tampa & St. Pete | |
| MCB 3020 | General Microbiology | BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 2046 | Tampa & St. Pete | May require a PERMIT if you haven't completed CHM 2210 |
| MCB 3020L | General Microbiology Lab | Pre-Req/Co-Req: MCB 3020 | Tampa & St. Pete | |
| PCB 3023 | Cell Biology | BSC 2010, BSC 2010L, CHM 2046 | Tampa & St. Pete | |

| Code | Title | Pre-Reqs | Campus | Notes |
|-----------|------------------------|--|--------|-------|
| 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 | |

Medical Biology Restricted Electives:

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

| Code | Title | Pre-Reqs | Campus | Notes |
|-----------|--------------------------------------|---|--------------------------|--|
| BCH 3023L | Basic Biochemistry Lab | BCH 3023 or BCH 3053 | 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 2094C | Human Anatomy and Physiology 2 | BSC 2093C | Tampa | |
| 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 | 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. |
| MCB 4503 | Virology | MCB 3020, MCB 3020L | Tampa & Sarasota-Manatee | |

| Code | Title | Pre-Reqs | Campus | Notes |
|----------|------------------------------------|--|------------------|--|
| 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 | |
| PHZ 4702 | App. of Physics to Biology & Med 1 | PHY 2054 or PHY 2049, PHY 2054L or PHY 2049L | Tampa & St. Pete | |

Additional Biology Electives:

Biology Majors with a Medical Biology 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 | |
| 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, BSC 2011 | Tampa | If you have previously completed the BSC 4933 version of this course, BSC 4102 cannot be used toward your major. |
| 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 | Learning Asst. – Cancer Biology | PCB 4109 and Consent of Instructor | Tampa | Will require Consent of Instructor PERMIT |
| 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 |

| Code | Title | Pre-Reqs | Campus | Notes |
|-----------|--|---|------------------|--|
| 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 3306 | Stream Ecology | BSC 2010, BSC 2011, PCB 3043 | St. Pete | |
| 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 4408 | Urban Ecology | PCB 3043 | Tampa | PCB 4408 |
| PCB 4522C | Experimental Genetics & Cell Bio | PCB 3023, PCB 3063, PCB 3023L, PCB 3063L and Consent of Instructor | Tampa | PCB 4522C |
| 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 | |
| ZOO 4233 | Parasitology | BSC 2011, BSC 2011L, CHM 2210 | Tampa | |
| 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 | |
| ZOO 4454 | Fish Biology | BSC 2011, BSC 2011L | Tampa | |
| ZOO 4454L | Fish Biology Lab | ZOO 4454 | Tampa | |
| ZOO 4462C | Herpetology | BSC 2011 | Tampa | |
| ZOO 4485 | Marine Mammal Biology | BSC 3312 | St. Pete | |
| 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 |
| ZOO 4753 | Human Histology & Molecular Pathology of Disease | PCB 3023, PCB 3063, CHM 2210 | Tampa | May Require a PERMIT |