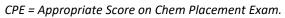


Biology Roadmap 2024-2025

All prerequisite courses require a "C" (2.0) or better

MPT = Appropriate Score on Math Placement Test





| Common Program Prerequisites - "C" (2.0) or better in each course | | | | | | | | |
|--|---|---|--|----------------|--|--|--|--|
| | | Credits Status | | Credits Status | | | | |
| BSC2010C | Biology I (GEP) | 4 | CHM2210 Organic Chemistry I | 3 | | | | |
| | PR: High school biology | | PR: CHM 2046 | | | | | |
| BSC2011C | Biology II | 4 | CHM2211 Organic Chemistry II | 3 | | | | |
| | PR: BSC 2010C | | PR: CHM 2210 | | | | | |
| | | | CHM2211L Organic 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 satisfied by CHM2205 \square followed by CHM3120 \square and CH | M3120L 🗆 | | | | |
| CHM2046 | Chemistry Fundamentals II | 3 | | | | | | |
| | PR: CHM 2045C, and MAC 1105C or MPT | | Biology Core Requirements: "C" (2.0) or better in each | h course | | | | |
| CHM2046L | Chemistry Fundamentals Lab | 1 | | Credits Status | | | | |
| | PR or CR: CHM2046 | | PCB3044* Principles of Ecology | 3 | | | | |
| | | | PR: CHM2045, BSC 2010C & BSC2011C | | | | | |
| MAC2311C | Calculus with Analytic Geometry I | O 4 | PCB3063* Genetics | 3 | | | | |
| OR | PR: MAC1140C & MAC1114C, or MPT | | PR: BSC2011C or CHM2046 | . — | | | | |
| MAC2233 | Concepts of Calculus | O 3 | PCB3023* Molecular Cell Biology | 3 | | | | |
| | PR: MAC 1140C or MPT | | PR: CHM2210 or CHM2205 or CHM3120, and BSC2010C, and PCB3 | | | | | |
| | | | PCB4683* Evolutionary Biology | 4 | | | | |
| STA2023 | Statistical Methods I (GEP) | 3 | PR: JR Standing & PCB 3063 Were all four of | | | | | |
| | PR: MGF 1106 or any MAC course | | the above courses YES O nothing further needed | | | | | |
| PHY2053 | College Physics I | 3 | taken at UCF? NO check overall UL residency: | of 22 | | | | |
| | 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: MACZ | 2311C) | | | | | | |
| | | | Lab B A second Lab A course, or other lab elective (see secon | nd page) | | | | |
| PHY2054 | College Physics II | 3 | Upper Level Electives | | | | | |
| | PR: PHY 2053 | | 22 Credit Hours of Electives - See Second Page | 2 | | | | |
| PHY2054L | College Physics II Lab | 1 | | | | | | |
| | PR or CR: PHY 2054 | | Other Requirements | | | | | |
| | Also satisfied by PHY 2054C (4cr, Lab included) | | UCF GPA Major GPA Exit | | | | | |
| | Also satisfied by PHY 2049C, or PHY 2049 & Lab (PR: PHY 2 | PHY 2049 & Lab (PR: PHY 2048 & MAC2312) 2.0 minimum 2.0 minimum Exam* | | | | | | |
| * The Biology Exit Exam covers the following core courses: Biology I, Biology II, Genetics, Ecology, Molecular Cell Biology, and Evolutionary Biology. | | | | | | | | |

Plant Science Track

NAME

UCF ID

DATE

| Y | Biology Major B.S. – Plant Science Track Upper Division Restricted Electives (22 hrs) | | | | | | | * | | | | | | |
|------------------------|---|-----|------------|---------|--|------------|------------------------|--|-------------|-------|--------|--------|------------|---------|
| | KEY: R = Elective Residency (Taught by UCF Biology Dept) L = Lab | | | | Lab Option A = Animal/Zoology Option P = Plant/Botany Option | | | | | | | | | |
| | Course Detail | R | L A | | | Status | | Course Detail | R | L | Α | Р | Cr | Status |
| REQ | UIRED - MUST COMPLETE | | "C" or | bette | r require | ed | PCB 3355L | Tropical Marine Biology | R | | | | 2 | |
| BOT 3015 | Principles of Plant Science | R | | Р | 3 | | PCB 3442 | Aquatic Ecology | R | | | | 3 | |
| RESTR | ICTED - COMPLETE AT LEAST 4 | | | | | | PCB 3522 | Molecular Biology I | | | | | 3 | |
| BOT 3802 | Ethnobotany | R | | Р | 3 | | PCB 3703C | Human Physiology | | | | | 4 | |
| BOT 4223C | Plant Anatomy | R | L | Р | 4 | | PCB 4301C | Wetland Ecology & Biogeochem. | R | L | | | 4 | |
| BOT 4303C | Plant Kingdom | R | L | Р | 4 | | PCB 4353 | Fl Ecology, Natural History & Cor | ns R | | | | 3 | |
| BOT 4503C | Plant Physiology | R | L | Р | 4 | | PCB 4353L | Florida Ecology Lab | R | L | | | 1 | |
| BOT 4713C | Plant Taxonomy | R | L | Р | 5 | | PCB 4402 | Disease Ecology & Ecoimmunolo | gy R | | | | 3 | |
| BOT 4922 | Plant Science Capstone | R | | | | | PCB 4408 | Urban Ecology | R | | | | 3 | |
| BOT 4941 | Plant Science Internship ¹ | R | | | | | PCB 4413 | Sensory Ecology | R | | | | 3 | |
| BOT 4850 | Medical Botany | R | | Р | 3 | | PCB 4514 | Epigenetics | R | | | | 3 | |
| BSC 4927 | Sci and Public Engage for Bio Majors | R | | | 3 | | PCB 4524 | Molecular Biology II | | | | | 3 | |
| | | | | | _ | | PCB 4575 | Wildlife Genomics | R | | | | 3 | |
| COMPLE | TE REMAINING REQUIREMENTS | A | ddition | al Froi | n Above | e, or: | PCB 4683L | Evolutionary Biology Lab | R | L* | | | 1 | |
| ANT 3550C | Primatology | | ļ | | 3 | , | PCB 4723 | Animal Physiology | R | | Α | | 4 - | |
| BCH 4053 | Biochemistry I | | | | 3 | | PCB 4932 | Population Ecology | R | | | | 3 | |
| 3CH 4054 | Biochemistry II | | | | 3 - | | ZOO 3001 | Integrated Principles of Zoology | R | | Α | | 3 - | |
| 3018C | Cul Botany Across the Cultures | R | 1 | Р | 4 - | | ZOO 3454 | Ichthyology | R | | Α | | 3 - | |
| 3SC 3052 | Conservation Biology | R | _ | • | 3 - | | ZOO 3713 | Comparative Vertebrate Anatom | | | Α | | 4 - | |
| BSC 3312 | Principles of Marine Biology | R | | | 3 - | | ZOO 3713L | Comp Vert Anat Lab | R | 1 | ,, | | 1 - | |
| BSC 3403C | Quantitative Biological Methods | ••• | | | 4 _ | | ZOO 3733C | Human Anatomy | ., | _ | | | 4 - | |
| 3SC 3453C | Bio Res. Meth & Exp Design | R | | | 3 - | | ZOO 4205C | · | R | 1 | Α | | ά – | |
| BSC 4310 | Service Learning Marine Conserv | R | | | 3 - | | ZOO 4272 | Ornithology | R | - | Α | | ٦ <u> </u> | |
| BSC 4312C | Advanced Marine Biology | R | L | | 4 - | | ZOO 4310C | ~ · | R | 1 | A | | 4 - | |
| BSC 4330 | Invasion Biology | R | - | | 3 - | | ZOO 4405C | c. | | ī | Α | | ٦ <u> </u> | |
| BSC 4445C | Genomics Laboratory | R | L | | | | ZOO 4462C | Herpetology | R | - | A | | 7 - | |
| BSC 4456C | Programming for Biologists | R | L | | 3 - | | ZOO 4480 | Mammalogy | R | L | A | | | |
| 3SC 4473C | Scientific Diving | R | | | | | ZOO 4480L | Mammalogy Lab | R | - 1 | | | | |
| 3SC 4473C | Biogeography | R | | | <i>_</i> _ | | ZOO 4513 | Animal Behavior | R | L | Α | | 3 - | |
| ENY 4004C | General Entomology | R | L A | | 4 - | | ZOO 4513 | | R | - 1 | A | | 5 - | |
| ENY 4455C | Social Insect Behavior | R | L A | | 4 _ | | ZOO 4003C | | | ı | A | | 7 _ | |
| MCB 3020C | | n | L <i>F</i> | ` | <u> </u> | | ZOO 4730C ZOO 4910L | Res in Animal Beh. in a Zoo Env | sy r R | L | A | | 2 - | |
| OCE 3008 | Oceanography | D | | | 2 _ | | 1200 4910 | Nes III Allilliai Dell. III a 200 Ellv | ĸ | L | А | | ٥ _ | |
| PAZ 4234 | Zoo and Aquarium Management | R | | | | | 1 | | | | | | _ | |
| PAZ 4234 PCB 3044L | Principles of Ecology Lab | R | ı * | | ³ _ | | - 0 | Only a few elective courses are off | ered each s | seme | ster. | We s | ugges | t |
| PCB 3044L PCB 3063L | Genetics Laboratory | R | L* L* | | 1 _ | | perforr | ning class search using Departmen | t > Biology | (to f | ind "R | " elec | tive co | ourses) |
| | Immunology | R | L. | | , _ | | | - | | | | | | - |
| PCB 3233 | <u>~·</u> | n | | | <u> </u> | | 4 | Current & IP Total: | _ / 22 | Ne | eede | d: _ | 22 | |
| PCB 3354 | Tropical Ecology and Conservation | R | D. | / 5 | 3 | | lab ^ /1*\ | | | | | _ | | |
| - | | | : / Bo | • | | Lab A (L*) | 10+ Residence | | L | Ш | Ш | Ш | | |
| Met | t: Course (A) | | Со | urse (| P) | | Lab B (L) | Elective Hours (F | R) | | | | | |

You may only earn a MAXIMUM OF 4 CREDIT HOURS from internship, research and independent study (collectively) towards your Biology electives.

| P | lar |) f | Sc | :ie | nce | Tra | ck |
|---|-----|-----|--------------|-----|------|-------------|--------------|
| | u | | \mathbf{c} | ,,, | 1100 | <i>II</i> G | \mathbf{v} |

NAME

UCF ID

DATE

NOTES

| General Education Program Your GEPs are (complete or not of | complete). | | | | | | | | | |
|--|--------------------------|-------------------------------------|----------|--|--|--|--|--|--|--|
| Most students have room two "free el taken from outside the Biology departme rigorous courses. If you'd like a list of ide | nt. You may wish to choo | se courses you find fun or interest | | | | | | | | |
| About the Biology Exit Exam: https://a | cademicsuccess.ucf.edu/u | utc/biology/ | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| PROJECTED SCHEDULE | | | | | | | | | | |
| Semester | Semester | | Semester | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Semester | Semester | | Semester | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | J | | | | | | | |