

Name _____
UCFID _____

General Biology B.S Track
Summer 2021 - Present

1. State General Education Core

- Communication Foundation: ENC 110
- Cultural Foundation: HUM2020, MUL2010, THE2000, PHI2010
- Mathematical Foundation: MAC1105C, MAC2311C, MGF1106, MGF1107, STA2023
- Social Foundation: ECO2013, POS2041, AMH2020, PSY2012, SYG2000, ANT2000
- Science Foundation: CHM 2045C, BSC 2010C

2. General Education Program (36 Hours)

[See COSAS for assistance with GEP planning]

Communication Foundations

- ENC 1101 - Composition I
- ENC 1102 - Composition II
- SPC 1603C - Fundamentals of Technical Presentations

Cultural & Historical Foundations

- Mathematical Foundations

Mathematics

- MAC 2311C - Calculus with Analytic Geometry I

Statistics

- STA 2023 - Statistical Methods I

Social Foundations

Science Foundations

- BSC 2010C - Biology I
- CHM 2045C - Chemistry Fundamentals I

3. University Requirements

- ❖ 9 hours of summer enrollment (total) in academic career. _____ of 9
- ❖ At least 2.0 needed: _____ UCF GPA _____ Major GPA
- ❖ 42 hours 3xxx-4xxx level – 35 Biology requires = 7 hours left (to be satisfied with free electives or minor) _____ of 7

4. Major Requirements

- ❖ A minimum of 2.0 in all UCF courses taken in common program prerequisites, Biology core, and upper division restricted electives.
- ❖ A minimum of a C (2.0) in all Biology offered Core Classes is required for graduation.
- ❖ Exit Exam- to be completed upon completion of Biology core courses
- ❖ Departmental Residency Requirement: _____ of 22
 - o 22 hours of regularly scheduled upper division courses must be taken in the UCF Biology Department.

5. Biology core courses (21 hours)

| | | |
|-------------------------------|-------|---|
| BSC 2010C Gen Biology | _____ | 4 |
| BSC 2011C Biology 2 | _____ | 4 |
| PCB 3023 Molec Cell Bio | _____ | 3 |
| PCB 3044 Ecology | _____ | 3 |
| PCB 3063 Genetics | _____ | 3 |
| PCB 4683 Evolutionary Biology | _____ | 4 |

Note: If all requirements are satisfied on the road map, your major is satisfied. Please consult with COSAS for a final graduation check on all university requirements.

5A. Cognate Sciences Core (31-33 hours)

Chemistry Placement Test: CHM1025 Intro to Chemistry _____ 2 _____

| | | |
|--------------------------------------|-------|---|
| CHM 2045C Chemistry Fundamentals I | _____ | 4 |
| CHM 2046 Chemistry Fundamentals II | _____ | 3 |
| CHM 2046L Chemistry Fundamentals Lab | _____ | 1 |

| | | | |
|-------------|-----------|-------|-----|
| CHM 2210 | CHM 2205 | _____ | 3/5 |
| CHM 2211 or | CHM 3120 | _____ | 3/3 |
| CHM 2211L | CHM 3120L | _____ | 2/1 |

| | | |
|--|-------|-------|
| PHY 2053C (or +L) or PHY 2048C (or +L) | _____ | 4/3+1 |
| PHY 2054C (or +L) or PHY 2049C (or +L) | _____ | 4/3+1 |

Math Placement Test: MAC1105____, MAC1114____, MAC 1140____,

MAC 2311 or MAC 2233 or MAC 2253 Calculus _____ 4 _____

STA 2023 Statistical Methods I _____ 3 _____

5B. Lab requirement- Two labs

At least one of these labs must come from section A - Core.

A - Core:

- PCB 3044L - Ecology lab _____
- PCB 3063L - Genetics lab _____
- PCB 4683L - Evolutionary Biology Lab _____

B - Non-Core: designated with †

6. 22 hours of restricted electives are required, with following stipulations: _____ of 22 hours _____ RE GPA

- ❖ Courses must be selected from those listed below.
- ❖ Include one course exclusively on animals (marked a) _____, and one exclusively on plants (marked p) _____.
- ❖ At least 10 of the 22 hours must be courses offered by the Department of Biology (designated with an *). _____ of 10
- ❖ Independent Study/Directed Research: May include a maximum of 4hrs towards restricted electives- (Completed with Biology Faculty)
- ❖ 5000 level courses may be taken by seniors with prior permission of course instructor. You will be charged graduate level tuition.

6A. Restricted Electives (22 hrs)

Upper division restricted electives

| | | | |
|----------------|-----------------------------|-------|---|
| a. ANT 3550C | Primateology | _____ | 3 |
| BCH 4024 | Medical Biochemistry | _____ | 4 |
| BCH 4053 | Biochemistry 1 | _____ | 3 |
| BCH 4054 | Biochemistry 2 | _____ | 3 |
| p. BOT 3015* | Principles of Plant Science | _____ | 3 |
| p. BOT 3018C*† | Culinary Botany | _____ | 4 |
| p. BOT 3802* | Ethnobotany | _____ | 3 |
| p. BOT 4223C*† | Plant Anatomy | _____ | 4 |
| BOT 4282C*† | Plant Microtechniques | _____ | 4 |
| p. BOT 4303C*† | Plant Kingdom | _____ | 4 |
| p. BOT 4430C*† | Biology of Fungi | _____ | 4 |
| p. BOT 4503C*† | Plant Physiology | _____ | 4 |
| p. BOT 4530C*† | Plant Genomics and Biochem | _____ | 4 |
| p. BOT 4713C*† | Plant Taxonomy | _____ | 5 |
| p. BOT 4850* | Medical Botany | _____ | 3 |
| BOT 4922* | Plant Science Capstone | _____ | 2 |
| BOT 4970H | Honors Undergrad. Thesis | _____ | 3 |

Advisor _____ Date _____

| | | | |
|----------------|---------------------------------|-------|---|
| BSC 3052* | Conservation Biol | _____ | 3 |
| BSC 3312* | Princ Marine Biol | _____ | 3 |
| BSC 3453* | Bio Res. Meth & Exp Design | _____ | 3 |
| BSC 4312C*† | Adv Marine Biol | _____ | 4 |
| BSC 4330* | Invasion Biology | _____ | 3 |
| BSC 4445C*† | Genomics Lab | _____ | 4 |
| BSC 4456C* | Programming for Bio | _____ | 3 |
| BSC 4473C* | Scientific Diving | _____ | 4 |
| BSC 4821* | Biogeography | _____ | 4 |
| BSC 4861L* | Urban Ecology... | _____ | 3 |
| BSC 4927* | Scientific Engagement | _____ | 3 |
| BSC 4932* | Service Learning Marine Conserv | _____ | 3 |
| BSC 5258L* | Trop Bio Research | _____ | 3 |
| BSC 5316* | Marine Conservation | _____ | 4 |
| a. ENY 3571*† | Honey Bee Bio& Beekeeping | _____ | 3 |
| a. ENY 4004C*† | General Entomology | _____ | 4 |
| MCB 3020C | Gen Microbiology | _____ | 5 |
| OCE 3008* | Oceanography | _____ | 3 |
| a. PAZ 4234* | Zoo& Aquarium Mgt | _____ | 3 |
| PCB 3044L* | Ecology Lab | _____ | 1 |
| PCB 3063L* | Genetics Lab | _____ | 1 |
| PCB 3233 | Immunology | _____ | 3 |
| PCB 3343L* | Princ Field Ecology | _____ | V |
| PCB 3354* | Tropic Ecology & Cons. | _____ | 3 |
| PCB 3355L* | Tropical Marine Bio | _____ | 2 |
| PCB 3442* | Aquatic Ecology | _____ | 3 |
| PCB 3522 | Molec Bio I | _____ | 3 |
| PCB 3703C | Human Physiology | _____ | 4 |
| PCB 4301C*† | Wetland Eco & Biogeochem. | _____ | 4 |
| PCB 4353* | Fl Eco., Nat. Hist. & Cons. | _____ | 3 |
| PCB 4353L*† | FL Ecology Lab | _____ | 1 |
| PCB 4402* | Disease Eco & Immunology | _____ | 3 |
| a. PCB 4413* | Sensory Ecology | _____ | 3 |
| PCB 4462* | GIS for Biologists | _____ | 3 |
| PCB 4514* | Genetics II | _____ | 3 |
| PCB 4315C*† | Marine Ecology of Florida | _____ | 3 |
| PCB 4524 | Molec Bio 2 | _____ | 3 |
| PCB 4575* | Wildlife Genomics | _____ | 3 |
| PCB 4683L* | Evol. Biology Lab | _____ | 1 |
| PCB 4678* | Evolution in Medicine | _____ | 3 |
| PCB 4684* | Population Genetics | _____ | 3 |
| a PCB 4723* | Animal Physiology | _____ | 4 |
| PCB 5326C* | Ecosystems of Fl | _____ | 5 |
| PCB 5435C* | Marine Ecology of Fl | _____ | 4 |
| PCB 5485* | Models in Ecology | _____ | 3 |
| a ZOO 3713C*† | Comp Vert Anat | _____ | 5 |
| ZOO 3733C | Human Anatomy | _____ | 4 |
| a ZOO 3454* | Ichthyology | _____ | 3 |
| a ZOO 4205C*† | Invertebrate Biodiversity | _____ | 4 |
| a ZOO 4272* | Ornithology | _____ | 3 |
| a ZOO 4310C*† | Vert Evo and Eco | _____ | 4 |
| a ZOO 4405C*† | Sea Turtle Internship | _____ | 3 |
| a ZOO 4462C*† | Herpetology | _____ | 4 |
| a ZOO 4480* | Mammalogy | _____ | 4 |
| ZOO 4480L*† | Mammalogy Lab | _____ | 1 |
| a ZOO 4513* | Animal Behavior | _____ | 3 |
| a ZOO 4603C*† | Embryology/Develop | _____ | 5 |
| a. ZOO 4756C*† | Comp Vert Histology | _____ | 4 |
| a. ZOO 4910L*† | Res Exp in Zoo Env | _____ | 3 |