

Name \_\_\_\_\_  
UCFID \_\_\_\_\_

**Marine & Aquatic Biology Track**  
**Catalog Year: Fall 2021 and On**

Advisor \_\_\_\_\_ Date \_\_\_\_\_

**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 and Required Electives 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 |

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

Chemistry Placement Test: CHM1025\_\_

|           |             |       |     |
|-----------|-------------|-------|-----|
| CHM 2045C | _____       | 4     |     |
| CHM 2046  | _____       | 3     |     |
| CHM 2046L | _____       | 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: MAT1033C\_\_, MAC1105\_\_, MAC1114\_\_, MAC 1140\_\_,  
MAC 2311 or MAC 2233 or MAC 2253 \_\_\_\_\_ 4 \_\_\_\_\_  
STA 2023 \_\_\_\_\_ 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.

**Required Electives (choose one of the following courses) (3hr)**

|           |                              |       |   |
|-----------|------------------------------|-------|---|
| BSC 3312* | Principles of Marine Biology | _____ | 3 |
| OCE 3008* | Oceanography                 | _____ | 3 |
| PCB 3442* | Aquatic Ecology              | _____ | 3 |

**Restricted Electives (12 hrs)**

|                |                           |       |   |
|----------------|---------------------------|-------|---|
| BSC 4312C*†    | Adv Marine Biol           | _____ | 4 |
| BSC 4473C*     | Scientific Diving         | _____ | 4 |
| OCE 3008*      | Oceanography              | _____ | 3 |
| PCB 3355L*     | Tropical Marine Bio       | _____ | 2 |
| PCB 3442*      | Aquatic Ecology           | _____ | 3 |
| PCB 4301C*†    | Wetland Eco & Biogeochem  | _____ | 4 |
| PCB 4315C*†    | Marine Ecology of Florida | _____ | 4 |
| a. PAZ 4234*   | Zoo& Aquarium Mgt         | _____ | 3 |
| a. ZOO 4205C*† | Invertebrate Biodiversity | _____ | 4 |
| a. ZOO 4310C*† | Vert Evo and Eco          | _____ | 4 |
| a. ZOO 4405C*† | Sea Turtle Internship     | _____ | 3 |
| a. ZOO 4462C*† | Herpetology               | _____ | 4 |
| a. ZOO 3454*   | Ichthyology               | _____ | 3 |

**Additional Biology Electives: (7 hours)**

|              |              |       |   |
|--------------|--------------|-------|---|
| 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 4282L*†    | Plant Microtechniques       | _____ | 2 |
| p. BOT 4303C*† | Plant Kingdom               | _____ | 4 |
| p. BOT 4430C*† | Biology of Fungi            | _____ | 4 |
| BOT 4970H      | Honors Undergrad. Thesis    | _____ | 3 |
| BOT 4922*      | Plant Science Capstone      | _____ | 2 |
| p. BOT 4503C*† | Plant Physiology            | _____ | 4 |
| p. BOT 4530C*† | Plant Genomics and Biochem  | _____ | 4 |
| p. BOT 4713C*† | Plant Taxonomy              | _____ | 5 |
| BSC 3052*      | Conservation Biol           | _____ | 3 |
| BSC 4821*      | Biogeography                | _____ | 4 |
| p. BOT 4850*   | Medical Botany              | _____ | 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 4456C*     | Programming for Bio         | _____ | 3 |
| BSC 4445C*†    | Genomics Lab                | _____ | 4 |
| BSC 4473C*     | Scientific Diving           | _____ | 4 |
| BSC 4861L*     | Urban Ecology...            | _____ | 3 |
| BSC 4927*      | Scientific Engagement       | _____ | 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 3703C      | Human Physiology            | _____ | 4 |
| PCB 4301C*†    | Wetland Eco & Biogeochem.   | _____ | 4 |
| PCB 4315C*†    | Marine Ecology of Florida   | _____ | 3 |
| 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 4514*      | Genetics II                 | _____ | 3 |
| PCB 3522       | Molec Bio I                 | _____ | 3 |
| PCB 4462*      | GIS for Biologists          | _____ | 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 4205C*† | Invertebrate Biodiversity   | _____ | 4 |
| a. ZOO 4310C*† | Vert Evo and Eco            | _____ | 4 |
| a. ZOO 4405C*† | Sea Turtle Internship       | _____ | 3 |
| a. ZOO 4480*   | Mammalogy                   | _____ | 4 |
| ZOO 4480L*†    | Mammalogy Lab               | _____ | 1 |
| a. ZOO 4513*   | Animal Behavior             | _____ | 3 |
| a. ZOO 4462C*† | Herpetology                 | _____ | 4 |
| a. ZOO 4603C*† | Embryology/Develop          | _____ | 5 |
| a. ZOO 4756C*† | Comp Vert Histology         | _____ | 4 |
| a. ZOO 3454*   | Ichthyology                 | _____ | 3 |
| a. ZOO 4272*   | Ornithology                 | _____ | 3 |
| a. ZOO 4910L*† | Res Exp in Zoo Env          | _____ | 3 |

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.