

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

**Marine & Aquatic Biology Track**  
**Catalog Year: Summer 2021 to Present**

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 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:** MAT1033C \_\_\_\_, 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.

**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

**\*\*Classes that satisfy the Required Electives cannot duplicate towards this section. Any Required Electives taken in excess of 3hr will count here.\*\***

**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	Primatology	_____	3
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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
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.