

Name _____
UCFID _____

Advisor _____ Date _____

**Marine & Aquatic Biology Track
Catalog Year: 2020-2021**

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

- 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
- ❖ 48 hours 3xxx-4xxx level – 35 Biology requires = 13 hours left (to be satisfied with free electives or minor) _____ of 13

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)

CHM 2045C (or CHM 2040____2041____)	_____	4/3
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 PHY 2048C	_____ 4
PHY 2054C	PHY 2049C	_____ 4

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 4932*	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 4316C*†	Marine Ecology of Florida	_____	4
a. PAZ 4234*	Zoo& Aquarium Mgt	_____	3
a. ZOO 4205C*†	Bio and Eco Meta Inv	_____	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
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
p. BOT 4303C*†	Plant Kingdom	_____	4
p. BOT 4282L*†	Plant Microtechniques	_____	2
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 4653C*†	Biology of Fungi	_____	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 4861L*	Urban Ecology...	_____	3
BSC 4927*	Scientific Engagement	_____	3
BSC 4932*	Scientific Diving	_____	4
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 4316C*†	Marine Ecology of Florida	_____	3
PCB 4353*	FL Eco., Nat Hist & Cons.	_____	3
PCB 4353L*†	FL Natural History 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 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 4932*	GIS for Biologists	_____	3
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*†	Bio and Eco Meta Inv	_____	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 4753C*†	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.