

Name _____
UCFID _____

Marine & Aquatic Biology Track
Catalog Year: 2020-2021

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
- ❖ 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)

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	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_____
p. BOT 4303C*†	Plant Kingdom	_____4_____
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 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.