

Name _____
UCFID _____

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

Advisor	Date	
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 4310*	Service Learning Marine Conserv	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 4910C*	Group Effort Applied Resear	4
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	3
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 3713*	Comp Vert Anat	4
ZOO 3713L*†	Comp Vert Anat Lab	1
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

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 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	Primateology	3
BCH 4024	Medical Biochemistry	4
BCH 4053	Biochemistry 1	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.