Name_____
UCFID_____

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**
  - 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____

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.

Marine & Aquatic Biology Track
Catalog Year: 2016-2019

5A. Cognate Sciences Core (31-33 hours)
Chemistry Placement Test: CHM 1025__

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____

Restricted Electives (12 hrs)

	BSC 4312C*†	Adv Marine Biol	_____4____
	BSC 4821*	Biogeography	_____4____
	OCE 3008*	Oceanography	_____3____
	PCB 3044L*	Ecology Lab	_____1____
	PCB 3355L*	Tropical Marine Bio	_____2____
	PCB 3442*	Aquatic Ecology	_____3____
	PCB 4315C*†	Marine Ecology of Florida	_____4____
a	PCB 4723*	Animal Physiology	_____4____
a.	PAZ 4234*	Zoo& Aquarium Mgt	_____3____
a	ZOO 3713C*†	Comp Vert Anat	_____5____
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 3454*	Ichthyology	_____3____

Additional Biology Electives: (7 hours)

a.	ANT 3550C	Primatology	_____3____
	BCH 4024	Medical Biochemistry	_____4____

Advisor_____ Date _____

	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____