1. State General Education Core
- Communication Foundation: ENC 110
- Mathematical Foundation: MAC1105C, MAC2311C, MGF1106, MGF1107, STA2023
- 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
  - MAC 2311C - Calculus with Analytic Geometry I
  - 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
- 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 3065 Genetics ___________3
- PCB 4863 Evolutionary Biology ___________4

6. Marine & Aquatic Biology Track
Catalog Year: 2016-2019

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 ___________4

Math Placement Test: MATI033C__, MAC1105__, MAC1114__, MAC 1140__, MAC 2311 or MAC 2233 or MAC 2253 ___________4

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
- 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 Biology Faculty.

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 3088* Oceanography ________3
- PCB 3044L* Ecology Lab ________3
- PCB 3353L* Tropical Marine Bio ________2
- PCB 3442* Aquatic Ecology ________3
- PCB 4315C* Marine Ecology of Florida ________3
- a. PCB 4723* Animal Physiology ________4
- a. PAZ 4234* Zool Aquarum Mgt ________3
- a. ZOO 3713C* Comp Vert Anat ________3
- a. ZOO 4025C* Bio and Eco Meta Inv ________4
- a. ZOO 4026C* Verte Bio and Eco ________4
- a. ZOO 4055C* Sea Turtle Internship ________3
- a. ZOO 4480* Mammalogy ________4
- a. ZOO 4480L* Mammalogy Lab ________1
- a. ZOO 4513* Animal Behavior ________3
- a. ZOO 4543* Ichthyology ________3

Additional Biology Electives: (7 hours)
- a. ANT 3550C Primateology ________3
- a. BCH 4024 Medical Biochemistry ________4
- a. BOT 3015* Principles of Plant Science ________3
- a. BOT 3015C* Culinary Botany ________4
- a. BOT 3802* Ethnobotany ________4
- a. BOT 4233C* Plant Anatomy ________4
- a. BOT 4303C* Plant Kingdom ________4
- a. BOT 4826L* Plant Microtechniques ________3
- a. BOT 4970H Honors Undergrad Thesis ________3
- a. BOT 4922* Plant Science Lapstone ________2
- a. BOT 4850C* Plant Physiology ________4
- a. BOT 4536C* Plant Genomics and Biochem ________4
- a. BOT 4653C* Biology of Fungi ________4
- a. BOT 4713C* Plant Taxonomy ________5
- a. BSC 3682* Conservation Biol ________3
- a. BSC 4821* Biogeography ________4
- a. BOT 4850* Medical Botany ________3
- a. BSC 3312* Prin Marine Biol ________3
- a. BSC 3453* Bio Res. Meth & Exp Design ________3
- a. BSC 4312C* Adv Marine Biol ________4
- a. BSC 4330* Invasion Biology ________4
- a. BSC 4456C* Programming for Bio ________3
- a. BSC 4445C* Genomics Lab ________4
- a. BSC 4473C* Scientific Diving ________4
- a. BSC 4861C* Urban Ecology ________3
- a. BSC 4927* Scientific Engagement ________3
- a. BSC 5258L* Trop Bio Research ________3
- a. BSC 5316* Marine Conservation ________3
- a. ENY 3571* Honey Bee Bio&Beekeeping ________3
- a. ENY 4046C* General Entomology ________4
- a. MCB 3020C Gen Microbiology ________5
- a. OCE 3008* Oceanography ________3
- a. PAZ 4234* Zool Aquarum Mgt ________3
- a. PCB 3044L* Ecology Lab ________3
- a. PCB 3063L* Genetics Lab ________1
- a. PCB 3233* Immunology ________3
- a. PCB 3345L* Prin Field Ecology ________3
- a. PCB 3354* Tropic Eco & Cons. ________3
- a. PCB 3355L* Tropical Marine Bio ________2
- a. PCB 3442* Aquatic Ecology ________3
- a. PCB 3703C Human Physiology ________4
- a. PCB 4301C* Wetland Eco & Biogeocem. ________4
- a. PCB 4315C* Marine Ecology of Florida ________3
- a. PCB 4353C* FL Eco, Nat Hist & Cons. ________3
- a. PCB 4353L* FL Ecology Lab ________1
- a. PCB 4401* Disease Eco & Immunology ________3
- a. PCB 4413* Sensory Ecology ________3
- a. PCB 4514* Genetics II ________3
- a. PCB 3525* Molec Bio 1 ________3
- a. PCB 4452* Gis for Biologists ________3
- a. PCB 4524* Molec Bio 2 ________3
- a. PCB 4578* Wildlife Genomics ________3
- a. PCB 4683L* Evol Biology Lab ________3
- a. PCB 4678* Evolution in Medicine ________3
- a. PCB 4684* Population Genetics ________3
- a. PCB 4723* Animal Physiology ________3
- a. PCB 5326C* Ecosystems of F1 ________5
- a. PCB 5435C* Marine Ecology of FL ________4
- a. PCB 5485* Models in Ecology ________3
- a. ZOO 3713C* Comp Vert Anat ________5
- a. 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
- a. ZOO 4480L* Mammalogy Lab ________1
- a. ZOO 4513* Animal Behavior ________3
- a. ZOO 4626C* Herpetology ________4
- a. ZOO 4650C* Embryology/Develop ________5
- a. ZOO 4756C* Comp Vert Histology ________4
- a. ZOO 4354* Ichthyology ________3
- a. ZOO 4372* 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.