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
     - 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 year) of 9
   - At least 2.0 needed: _______UCF GPA _____ Major GPA
   - 48 hours 3XX-4XX 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 - Chemistry Fundamentals I
   - BSC 211C Biology 2
   - PCB 3023 Molec Cell Bio
   - PCB 3044 Ecology
   - PCB 3065 Genetics
   - PCB 4863 Evolutionary Biology

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

Road Map - Ecology, Evolutionary and Conservation Biology
Catalog Year: Fall 2016 – Spring 2020

5A. Cognitive Sciences Core (33-34 hours)

Math Placement Test: CHM 1025 Intro to Chemistry
- CHM 2045C Chemistry Fundamentals I
- CHM 2046 Chemistry Fundamentals II
- CHM 2046L Chemistry Fundamentals Lab
- CHM 2210 CHM 2205
- CHM 2211 or CHM 3120
- PHY 2053C or PHY 2045C or PHY 2045L or PHY 2049LC

Math Placement Test: MAT1033C, MAC1105C, MAC1114, MAC 1140

5B. Lab requirement - Two labs
   At least one of these labs must come from section A - Core.
   - PCB 306L - Ecology lab
   - PCB 468L - Evolutionary Biology Lab
   - B - Non-Core: designated with ↑

6. 22 hours of restricted electives are required, with following stipulations:
   at least 10 of the 22 hours must be courses offered by the Department of Biology (designated with *), and one exclusively on plants (marked p)
   - Independent Study/Directed Research: May include a maximum of 4hrs towards the completed electives - (Completed with Biology Faculty)
   - 5000 level courses may be taken by seniors with prior permission of course instructor.

Required Electives (choose two of the following courses) (6-8 hrs)

- BSC 3052* Conservation Biol
- BSC 482L* Biogeography
- PCB 468L* Evolutionary Biology
- a ZOO 4310C* Vert Evo and Eco

Restricted Electives (choose from following) (7-9 hrs)

**Classes that satisfy the Required Electives cannot duplicate towards this section. Any Required Electives taken in excess of two will count here.**

- p. BOT 4030C* Plant Kingdom
- BSC 3052* Conservation Biol
- BSC 4330* Evolution Biology
- BSC 482L* Biogeography
- BSC 486L* Evolutionary Biology
- OCE 3008* Oceanography
- PCB 3044L* Ecology Lab
- PCB 3343L* Prin Field Ecology
- PCB 3354* Tropical Ecol & Cons.
- PCB 3355L* Tropical Marine Bio
- PCB 3442* Aquatic Ecology
- PCB 4131C* Marine Ecology of Florida
- PCB 4131* FL Eco, Nat Hist & Cons.
- PCB 4131L* FL Eco, Nat Hist & Cons.
- a. PCB 4462* GIS for Biologists
- PCB 4514* Genetics II
- PCB 4524* Molec Bio 2
- PCB 4755* Wildlife Genetics
- PCB 4683* Evolution in Medicine
- PCB 4684* Population Genetics
- a. PCB 472S* Animal Physiology
- PCB 5326C* Ecosystems of FL
- PCB 5435C* Marine Ecology of FL
- PCB 5485* Models in Ecology
- a. ZOO 3454* Ichthyology
- a. ZOO 3713C* Comp Vert Anat
- ZOO 3733C* Human Anatomy
- a. ZOO 4205C* Invertebrate Biodiversity
- a. ZOO 427L* Ornithology
- ZOO 4310C* Vert Evo and Eco
- ZOO 4405C* Sea Turtle Internship
- a. ZOO 4462C* Herpetology
- ZOO 4480* Mammalogy
- ZOO 4910L* Res Exp in Zoo Env
- ZOO 4910L* Res Exp in Zoo Env

Adviser________________________ Date _________

Additional Biology Electives: (5-9 hours)

- a. ANT 3550C Primatology
- BCH 4024 Medical Biochemistry
- BCH 4053 Biochemistry 2
- p. BOT 3015* Principles of Plant Science
- p. BOT 3018C*+ Culinary Botany
- p. BOT 3802* Ethnobotany
- p. BOT 4223C* Plant Anatomy
- p. BOT 4282C*+ Plant Microtechniques
- p. BOT 4303C* Plant Kingdom
- p. BOT 4430C*+ Biology of Fungi
- p. BOT 4850* Medical Botany
- p. BOT 4922* Plant Science Capstone
- p. BOT 4970H Honors Undergrad Thesis
- p. BOT 4503C* Plant Physiology
- p. BOT 4530C* Plant Genetics and Biochemistry
- p. BOT 4713C* Plant Taxonomy
- BSC 3052* Conservation Biol
- BSC 482L* Biogeography
- BSC 3312* Primc Marine Biol
- BSC 3453* Bio Res. Meth & Exp Design
- BSC 4312C* Adv Marine Biol
- BSC 4330* Invasion Biology
- BSC 4545* Programming for Bio
- BSC 4445C* Genomics Lab
- BSC 4473C* Scientific Diving
- BSC 4486L* Urban Ecology...
- BSC 4927* Scientific Engagement
- BSC 5258L* Trop Bio Research
- BSC 5316C* Marine Conservation
- a. ENY 3571+ Honey Bee Biod Bookkeeping
- a. ENY 4044C+ General Entomology
- MCB 302C* Gen Microbiology
- OCE 3008* Oceanography
- a. PAZ 423S* Zoo & Aquarium Mgt
- PCB 3044L* Ecology Lab
- PCB 3063L* Genetics Lab
- PCB 323* Immunology
- PCB 3343L* Prin Field Ecology
- PCB 3354* Tropical Ecol & Cons.
- PCB 3355L* Tropical Marine Bio
- PCB 3442* Aquatic Ecology
- PCB 3522* Molec Bio 1
- PCB 3703C* Human Physiology
- PCB 4301C+ Wetland Eco & Biogeom.
- PCB 4315C* Marine Ecology of Florida
- PCB 4435L+ FL Ecology Lab
- PCB 4402* Disease Eco & Immunology
- a. PCB 4443S* Sensory Ecology
- PCB 4462* GIS for Biologists
- PCB 4514* Genetics II
- PCB 4524* Molec Bio 2
- PCB 4575* Wildlife Genetics
- PCB 4683L* Evol. Biology Lab
- PCB 4678* Evolution in Medicine
- PCB 4684* Population Genetics
- a. PCB 472S* Animal Physiology
- PCB 5326C* Ecosystems of FL
- PCB 5435C* Marine Ecology of FL
- PCB 5485* Models in Ecology
- a. ZOO 3454* Ichthyology
- a. ZOO 3713C+ Comp Vert Anat
- ZOO 3733C* Human Anatomy
- a. ZOO 4205C* Invertebrate Biodiversity
- a. ZOO 427L* Ornithology
- ZOO 4310C* Vert Evo and Eco
- ZOO 4405C* Sea Turtle Internship
- a. ZOO 4462C* Herpetology
- ZOO 4480* Mammalogy
- ZOO 4480L+ Mammalogy Lab
- a. ZOO 4513+ Animal Behavior
- a. ZOO 4603C+ Embryology/Develop
- a. ZOO 4756C*+ Comp Vert Histology
- a. ZOO 4910L+ Res Exp in Zoo Env