1. State General Education Core
- Communication Foundation: ENC 110
- Mathematical Foundation: MAC 1105C, MAC 2311C, MGF 1106, MGF 1117, STA 2023
- 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 careers: ___ of 9
   - At least 2.0 needed: ___ UCF GPA ___ Major GPA
   - 48 hours 3xxx-4xxx level - 35 Biology requires = 13 hours (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 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.

5A. Cognate Sciences Core (31-33 hours)
   **Chemistry Placement Test:** CHM2040, CHM2041, or CHM2045
   - CHM 2045C (or CHM 2040 _____ 2041 ____) 4/3/3
   - 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 or PHY 2049C 4

   **Math Placement Test:** MAC 1105, MAC 1114, 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 - Ecol. 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 *).
   - 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.

6A. Restricted Electives (22 hrs)
   **Upper division restricted electives**
   - a. ANI 3550C Primatology 3
   - 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+ Principles of Plant Science 3
   - p. BOT 3802* Ethnobotany 3
   - p. BOT 4970H* Honors Undergrad. Thesis 3
   - p. BOT 4223C+ Plant Anatomy 4
   - p. BOT 4303C* Plant Kingdom 4
   - p. BOT 4282L+ Plant Microtechniques 2
   - p. BOT 4902* 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
   - p. BOT 4850+ Medical Botany 3

   **Advisor:**
   - Date
   - BSC 3052* Conservation Biol 3
   - BSC 3312* Princ Marine Biol 3
   - BSC 3453* Bio Res. Meth & Exp Design 3
   - BSC 4312C+ Adv Marine Biol 3
   - BSC 4330* Inversion Biology 3
   - BSC 4456C* Programming for Bio 3
   - BSC 4454C† Genomics Lab 4
   - BSC 4821* Biogeography 4
   - BSC 4861L Urban Ecology___ 3
   - BSC 4910* Biology Education Research 3
   - BSC 4927* Scientific Engagement 3
   - BSC 4932* Scientific Diving 4
   - 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
   - a. MCB 3020C Gen Microbiology 5
   - a. OCE 3008* Oceanography 3
   - a. PCB 4234* Zool & Animal Mgt 3
   - a. PCB 3044L* Ecology Lab 1
   - a. PCB 3063L* Genetics Lab 1
   - a. PCB 3233 Immunology 3
   - a. PCB 3443* Princ Field Ecology 4
   - a. PCB 3454* Trop Eco & Cons. 3
   - a. PCB 3554* Tropic Marine Bio 2
   - a. PCB 4424* Aquatic Ecology 3
   - a. PCB 3703C Human Physiology 4
   - a. PCB 4301C Wetland Ecol, & Biogeochem 4
   - a. PCB 4553* FL Natural History 4
   - a. PCB 4554L* FL Natural History Lab 1
   - a. PCB 4402* Disease Ecol & Immunology 3
   - a. PCB 4415* Sensory Ecology 3
   - a. PCB 4514* Genetics 2 3
   - a. PCB 3522 Molec Bio 1 3
   - a. PCB 3616C* Marine Ecology of Florida 3
   - a. PCB 4523 Molec Bio 2 3
   - a. PCB 4575* Wildlife Genomics 3
   - a. PCB 4683L* Evol. Biology Lab 1
   - a. PCB 4678* Evolution in Medicine 3
   - a. PCB 4684* Population Genetics 3
   - a. PCB 4723* Animal Physiology 4
   - a. PCB 4932* GIS for Biologists 3
   - a. PCB 5326* Ecosystems of FL 5
   - a. PCB 5435C* Marine Ecology of FL 4
   - a. PCB 5485* Models in Ecology 3
   - a. ZOO 3713C Comp Vert Anatom 5
   - a. ZOO 3733C Human Anatomy 4
   - a. ZOO 4205C Bio and Eco Meta Inf 4
   - a. ZOO 4310C* Vert Ecol and Evol 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 4462C* Herpetology 3
   - a. ZOO 4463C* 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