1. **State General Education Core**
   - Communication Foundation: ENC 110
   - Mathematical Foundation: MAC 1105C, MAC 2311C, MGFT 1106, MGF 1107, 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
     - History
   - Mathematical Foundations
     - MAC 2311C - Calculus with Analytic Geometry
   - Statistics
     - STA 2023 - Statistical Methods I
   - Social Foundations
     - SBS 2010C - Biology I Credit Hours: 4
     - CHM 2045C - Chemistry Fundamentals I

3. **University Requirements**
   - 9 hours of summer enrollment (total) in academic career ______
   - 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.

5. **Departmental Residency Requirement:**
   - 22 hours of regularly scheduled upper division courses must be taken in the UCF Biology Department.

6. **22 hours of restricted electives are required, with following stipulations:**
   - 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: designed with †

   - 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.

**Required Electives (3hr)**
- p. BOT 3802* Ethnobotany

**Restricted Electives (choose from following) (12 hrs)**
- p. BOT 3018C*† Culinary Botany
- p. BOT 4223C*† Plant Anatomy
- p. BOT 4303C*† Plant Kingdom
- p. BOT 4503C*† Plant Physiology
- p. BOT 4530C*† Plant Genetics and Biochem
- p. BOT 4713C*† Plant Taxonomy
- p. BOT 4922* Plant Science Capstone
- p. BOT 4970H Honors Undergrad. Thesis
- p. BSC 3052* Conservation Biol
- p. BSC 3312* Princ Marine Biol
- p. BSC 4821* Biogeography
- p. BOT 4850* Medical Botany
- p. BSC 3453* Bio Res. Meth & Exp Design
- p. BSC 4312C* Adv Marine Biol
- p. BSC 4330* Invasion Biology
- p. BSC 4456C* Programming for Bio
- p. BSC 4445C* Genomics Lab
- p. BSC 4473C* Scientific Diving
- p. BSC 4861L* Urban Ecology
- p. BSC 4927* Scientific Engagement
- p. BSC 5316* Marine Conservation
- p. BSC 5258L* Trop Bio Research
- a. ENY 3571* Honey Bee Bio & Beekeeping
- a. ENY 4004C* General Entomology
- a. MCB 3020C Gen Microbiology
- a. OCE 3008* Oceanography
- a. PAZ 4234* Zoo & Aquarium Mgt
- a. PCB 3044L* Ecology Lab
- a. PCB 3063L* Genetics Lab
- a. PCB 3233 Immunology
- a. PCB 3343L* Princ Field Ecology
- a. PCB 3355L* Tropical Marine Bio
- a. PCB 3442* Aquatic Ecology
- a. PCB 3703C Human Physiology
- a. PCB 4301C* Tropical Eco & Biogeochem
- a. PCB 4315C* Marine Ecology of Florida
- a. PCB 4353* FL Eco, Nat Hist & Cons.
- a. PCB 4353L* FL Ecology Lab
- a. PCB 4402* Disease Eco & Immunology
- a. PCB 4413* Sensory Ecology
- a. PCB 4462* GIS for Biologists
- a. PCB 4514* Genetics II
- a. PCB 3522 Molec Bio I
- a. PCB 4524 Molec Bio 2
- a. PCB 4575* Wildlife Genomics
- a. PCB 4683L* Evol. Biology Lab
- a. PCB 4678* Evolution in Medicine
- a. PCB 4684* Population Genetics
- a. PCB 4723* Animal Physiology
- a. PCB 5326C* Ecosystems of FL
- a. PCB 5435C* Marine Ecology of FL
- a. PCB 5485* Models in Ecology
- a. ZOO 3713C* Vert Geo
- a. ZOO 3713C* Zoo & Aquarium Mgt
- a. ZOO 4025C* Invertebrate Biodiversity
- a. ZOO 4310C* Vet Eco and Eco
- a. ZOO 4405C* Sea Turtle Internship
- a. ZOO 4480* Mammalogy
- a. ZOO 4480L* Mammalogy Lab
- a. ZOO 4513* Animal Behavior
- a. ZOO 4462C* Herpetology
- a. ZOO 4603C* Embryology/Development
- a. ZOO 4756C* Comp Vet Histology
- a. ZOO 4345* Ichthyology
- a. ZOO 4272* Ornithology
- a. ZOO 4910L* Res Exp in Zoo Env

**Additional Biology Electives:**
- a. ANT 3550C Primateology
- a. BCH 4024 Medical Biochemistry
- a. BCH 4053 Biochemistry I
- a. BCH 4054 Biochemistry II
- a. BOT 3015* Principles of Plant Science
- a. BOT 3018C* Culinary Botany
- a. BOT 3802* Ethnobotany

**Communication Placement Test:**
- CHM 2045C
- CHM 2046
- CHM 2046L
- CHM 2210
- CHM 2205
- CHM 3210
- CHM 3210L
- PHY 2053C (or +L) or PHY 2048C (or +L)
- PHY 2054C (or +L) or PHY 2049C (or +L)

**Math Placement Test:**
- MAC 2311C or MAC 2233 or MAC 2253
- STA 2023

**5A. Cognate Sciences Core (31-33 hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2045C</td>
<td></td>
</tr>
<tr>
<td>CHM 2046</td>
<td></td>
</tr>
<tr>
<td>CHM 2046L</td>
<td></td>
</tr>
<tr>
<td>CHM 2210</td>
<td></td>
</tr>
<tr>
<td>CHM 2205</td>
<td></td>
</tr>
<tr>
<td>CHM 3210</td>
<td></td>
</tr>
<tr>
<td>CHM 3210L</td>
<td></td>
</tr>
<tr>
<td>PHY 2053C</td>
<td></td>
</tr>
<tr>
<td>PHY 2048C</td>
<td></td>
</tr>
</tbody>
</table>

**5B. Lab requirement- Two labs**

- At least one of these labs must come from section A - Core.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCB 3044L</td>
<td>Ecology Lab</td>
</tr>
<tr>
<td>PCB 3063L</td>
<td>Genetics Lab</td>
</tr>
<tr>
<td>PCB 4683L</td>
<td>Evolutionary Biology Lab</td>
</tr>
</tbody>
</table>

**Course Notes:**
- 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.
- **Plant Science Track**
  - Catalog Year: 2016-2017

**Advisor**

**Date**