**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 career: ___ of 9
- At least 2.0 needed: ___ UCF GPA ___ Major GPA
- 42 hours 3xxx-4xxx level – 35 Biology requires = 7 hours left (to be satisfied with free electives or minor) ___ of 7

**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 Biol 4
- BSC 2011C Biology 2 4
- PCB 3023 Mole 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.

**Plant Science Track**

Catalog Year: Fall 2021 and On

**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 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 2255, STA 2023**

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

At least one of these labs must come from section A - Core.
- **A - Core:**
  - p. PCB 3044L - Ecology lab
  - p. PCB 3063L - Genetics lab
  - p. PCB 4863L - Evolutionary Biology Lab
- **B - Non-Core: designated with †**

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

- 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 Elective (3hr)**

p. BOT 3015* - Principles of Plant Science 3

**Restricted Electives (choose at least one course from Group A and two from Group B) Remaining credits can be from any (14 hrs)**

<table>
<thead>
<tr>
<th>Group A</th>
<th></th>
<th>Group B</th>
<th></th>
<th>Group C (Other Restricted Electives)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT 4922*</td>
<td>Plant Science Capstone 2</td>
<td>p. BOT 4226*</td>
<td>Plant Anatomy 4</td>
<td>p. BOT 3018C*</td>
</tr>
<tr>
<td>BOT 4941*</td>
<td>Arboretum Garden Internship 2</td>
<td>p. BOT 4282L*</td>
<td>Plant Microtechniques 2</td>
<td>p. BOT 3802*</td>
</tr>
<tr>
<td>BOT 4970H</td>
<td>Honors Undergraduate Thesis 3</td>
<td>p. BOT 4530C*</td>
<td>Plant Physiology 4</td>
<td>p. BOT 4530C*</td>
</tr>
<tr>
<td>BSC 4941*</td>
<td>Arboretum Project Internship 3</td>
<td>p. BOT 4530C*</td>
<td>Plant Genomics and Biochemistry 4</td>
<td>p. BOT 4850*</td>
</tr>
<tr>
<td>p. BOT 4226C*†</td>
<td>Plant Anatomy 4</td>
<td>p. BOT 4713C*†</td>
<td>Plant Taxonomy 5</td>
<td>BSC 4330*</td>
</tr>
<tr>
<td>p. BOT 4306C*†</td>
<td>Plant Kingdom 4</td>
<td>p. BOT 4912</td>
<td>Directed Independent Research 4</td>
<td>a. ENY 3571†</td>
</tr>
<tr>
<td>p. BOT 4850*</td>
<td>Medical Botany 4</td>
<td>a. ENY 3571†</td>
<td>Honey Bee &amp; Beekeeping 3</td>
<td>PCB 4462*</td>
</tr>
</tbody>
</table>

**Additional Biology Electives (5 hours)**

- a. ANT 3550C - Primatology 3
- BCH 4024 - Medical Biochemistry 4
- BCH 4053 - Biochemistry 3
- BCH 4054 - Biochemistry 2
- p. BOT 3018C*† | Culinary Botany 3 |
- p. BOT 3802* | Ethnobotany 3 |
- p. BOT 4226C*† | Plant Anatomy 4 |
- p. BOT 4282L* | Plant Microtechniques 2 |
- p. BOT 4306C*† | Plant Kingdom 4 |
- p. BOT 4530C*† | Plant Physiology 4 |
- p. BOT 4430C* | Biology of Fungi 4 |
- p. BOT 4713C*† | Plant Taxonomy 5 |
- p. BOT 4850* | Medical Botany 3 |
- BSC 3052* | Conservation Biol 3
- BSC 3312* | Prin Marine Biol 3
- BSC 3453* | Bio Res. Meth & Exp Design 3
- BSC 4312C* | Adv Marine Biol 4
- BSC 4330* | Invasion Biology 3
- BSC 4445C* | Genomics Lab 3
- BSC 4456C* | Programming for Bio 3
- p. BOT 4850* | Medical Botany 3
- BSC 4473C* | Scientific Divining 4
- BSC 4821* | Biogeography 4
- BSC 4861L* | Urban Ecology… 3
- BSC 4927* | Scientific Engagement 3
- BSC 5258L* | Trop Bio Research 3
- a. ENY 3571† | Honey Bee & Beekeeping 3
- a. ENY 4004C† | General Entomology 4
- MCB 3010C | Gen Microbiology 5
- OCE 3008* | Oceanography 3
- a. PAZ 4234* | Zoo & Aquarium Mgt 3
- PCB 3044L | Ecology lab 3
- PCB 3063L | Genetics Lab 1
- PCB 3233 | Immunology
- PCB 3354L | Princ Field Ecology 3
- PCB 3354* | Tropic Ecology & Cons. 3
- PCB 3355L* | Tropical Marine Bio 2
- PCB 3442* | Aquatic Ecology 3
- PCB 3525 | Molec Bio 1
- PCB 3703C | Human Physiology 4
- PCB 4301C* | Wetland Eco & Biogeochem. 4
- PCB 4315C* | Marine Ecology of Florida 3
- PCB 4535* | FL Eco., Nat. Hist. & Cons. 1
- PCB 4535L* | FL Natural History Lab 1
- PCB 4402* | Disease Eco & Immunology 3
- a. PCB 4413* | Sensory Ecology 3
- PCB 4462* | GIS for Biologists 3
- PCB 4514* | Genetics II 3
- PCB 4524 | Molec Bio 2 3
- PCB 4575* | Wildlife Genomics 3
- PCB 4685L* | Evol. Biology Lab 1
- PCB 4678* | Evolution in Medicine 3
- PCB 4684* | Population Genetics 3
- a. PCB 4723* | Animal Physiology 3
- BSC 5316* | Marine Conservation 4
- PCB 5326C* | Ecosystems of FL 5
- PCB 5435C* | Marine Ecology of FL 4
- PCB 5485* | Models in Ecology 3
- a. ZOO 3454* | Ichthyology 3
- a. ZOO 3713C*† | Comp Vert Anat 5
- ZOO 3733C* | Human Anatomy 4
- ZOO 4205C* | Invertebrate Biolog 3
- a. ZOO 4272* | Ornithology 3
- a. ZOO 4310C*† | Vert Evo & Eco 3
- ZOO 4405C* | Sea Turtle Internship 3
- a. ZOO 4462C*† | Herpetology 4
- a. ZOO 4480* | Mammalogy 3
- ZOO 4480L* | Mammalogy Lab 1
- a. ZOO 4513* | Animal Behavior 3
- a. ZOO 4603C*† | Embryology/Development 5
- ZOO 4756C* | Comp Vert Histology 3
- a. ZOO 4910L* | Res Exp in Zoo Env 3

Adviser_________________________ Date_________________________