1. State General Education Core
   - Communication Foundation: ENC 110
   - Mathematical Foundation: MAC1105C, MAC2311C, MGF1106, MGF1107, STA2023
   - Science Foundation: CHM2045C, 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 23A - 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.
   - At least 2.0 needed: _____UCF GPA _____ Major GPA
   - 48 hours 3xxx-4xxx level - 35 Biology require = 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 course.
   - 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
   - BSC 2011C Biology 2
   - PCB 3023 Molec Cell Biol
   - PCB 3044 Ecology
   - PCB 3063 Genetics
   - PCB 4683 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.

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### Plant Science Track
Catalog Year: 2018-2019

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

<table>
<thead>
<tr>
<th>Chemistry Placement Test</th>
<th>CHM2040__, CHM2041__, or CHM2045__</th>
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<tr>
<td>CHM 2045C (or CHM 2040 2041)</td>
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<tr>
<td>PHY 2054C or PHY 2049C</td>
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</tbody>
</table>

#### Math Placement Test: MAT1033C, MAC1105, MAC1114, MAC 1140

| STA 2023 | 3 |

#### 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 4063L - 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 †).
- Independent Study/Directed Research: May include a maximum of 4hrs towards restricted electives - Completed with Biology Faculty.

#### Required Elective (3hr)

- p. BOT 3015* Principles of Plant Science

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

##### Group A

- BOT 4922* Plant Science Capstone
- BOT 4970H Honors Undergraduate Thesis

##### Group B

- p. BOT 4223C* Plant Anatomy
- p. BOT 4232L* Plant Microtechniques
- p. BOT 4303C* Plant Taxonomy
- p. BOT 4713C* Plant Toxicology
- p. BOT 4912 Directed Independent Research
- p. BSC 3453* Bio Res. Meth & Exp Design

##### Group C (Other Restricted Electives)

- p. BOT 3018C* Botanist
- p. BOT 4850* Medical Botany
- p. BSC 4330* Invasion Biology
- PCB 4462* GIS for Biologists

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### Additional Biology Electives: (5 hours)

- a. ANT 3550C Primatology
- a. BCH 4042 Medical Biochemistry
- a. BCH 4053 Biochemistry I
- a. BCH 4054 Biochemistry II
- a. BOT 3018C* Botanical Botany
- a. BOT 3802* Ethnobotany
- a. BOT 4223C* Plant Anatomy
- a. BOT 4292L* Plant Microtechniques
- a. BOT 4303C* Plant Taxonomy
- a. BOT 4503C* Plant Genetics and Biochemistry
- a. BOT 4633C* Biology of Fungi
- a. BOT 4713C* Plant Taxonomy
- a. BOT 4850* Medical Botany
- a. BSC 3052 Conservation Biol
- a. BSC 3312 Primate Biol
- a. BSC 3435* Bio Res Meth & Exp Design
- a. BSC 4312C* Adv Marine Biol
- a. BSC 4330* Invasion Biology
- a. BSC 4445C* Genomics Lab
- a. BSC 4456C* Programming for Bio
- a. BSC 4473C* Scientific Diving
- a. BSC 4821* Biogeography
- a. BSC 4861C* Urban Ecology
- a. BSC 4927* Scientific Engagement
- a. BSC 525M* Trop Bio Research
- a. BSC 5951C* Honey Bee Biol & 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 3353L* Tropical Marine Bio
- a. PCB 3442* Aquatic Ecology
- a. PCB 3522 Molec Bio I
- a. PCB 3703C Human Physiology
- a. PCB 4301C* Wetland Eco & Biogeochem.
- a. PCB 4315C* Marine Ecology of Florida
- a. PCB 4353C* FL Eco, Nat. Hist. & Cons.
- a. PCB 4353L* FL Ecology Lab
- a. PCB 4402* Disease Eco & Immunology
- a. PCY 4413* Sensory Ecology
- a. PCB 4462* GIS for Biologists
- a. PCB 4514* Genetics II
- a. PCB 4524 Molec Bio 2
- a. PCB 4575* Wildlife Genomics
- a. PCB 4678* Evolution in Medicine
- a. PCB 4683L* Evol. Biology Lab
- a. PCB 4684* Population Genomics
- a. PCB 4728* Animal Physiology
- a. BSC 5316* Marine Conservation
- a. PCB 5326C* Ecosystems of FL
- a. PCB 5435C* Marine Ecology of FL
- a. PCB 5485* Models in Ecology
- a. ZOO 4354* Ichthyology
- a. ZOO 4371C* Comp Vert
- a. ZOO 4373C Human Anatomy
- a. ZOO 4380C* Bio and Eco Meta Inv
- a. ZOO 4372* Ornithology
- a. ZOO 4315C* Vert Ecol and Eco
- a. ZOO 4465C* Sea Turtle Internship
- a. ZOO 4480* Mammalogy
- a. ZOO 4480L* Mammalogy Lab
- a. ZOO 4513* Animal Behavior
- a. ZOO 4462C* Herpetology
- a. ZOO 4630C* Embryology/Development
- a. ZOO 4756C* Comp Vert Histology
- a. ZOO 4910L* Res Exp in Zoo Env