1. **State General Education Core**
   - Communication Foundation: ENC 110
   - Mathematical Foundation: MAC1105, MAC2311C, MGF1106, MGF1107, STA2023
   - Science Foundation: CHM 2045C, BSC 2010C

2. **General Education Program (36 Hours)**
   Communications Foundations
   1. ENC 1101	3
   2. ENC 1102	3
   3. SPC 1603, SPC 1608, PCB 3063
   4. Cultural & Historical Foundations
   4. EUH 2000 or AMH 2010 or HUM 2210 or WOH2012 ___
   5. ARH 2050, ARH 2051, MUL 2010, PHI 2010, LIT 2110, LIT 2120, THE2000, FIL 1000 or REL2000 __
   6. One additional course from Group 4 or 5

   **Science Foundations**
   7. MAC 2311	4
   8. STA 2023
   10. AMH 2020 or ECO2013 or ECO 2023 or POS 2041 __

   **Mathematical Foundations**
   11. CHM 2045C ___4
   12. WSC 2010C__4

3. **University Requirements**
   - 9 hours of summer enrollment (total) in academic career: __________9
   - At least 2.0 needed: UCF GPA ______ Major GPA
   - 48 hours 3xxx-4xxx level – 35 Biology required = 13 hours left
   - To be satisfied with free electives or minor ____________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 is required for graduation.
   - Exit Exam- to be completed upon completion of Biology core
   - Department 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 4863 Evolutionary Biology __________4

**Plant Science Track**

**Catalog Year:** 2016-2017

**5A. Cognate Sciences Core (33-34 hours)**

**Chemistry Placement Test: CHM2040, CHM2041, or CHM2045**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CHM 2045C (or CHM 2040)</td>
<td>4/3</td>
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<tr>
<td>CHM 2046L</td>
<td>3</td>
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</tbody>
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**Math Placement Test: MAC1105, MAC1114, MAC 1140**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MAC 2311</td>
<td>4</td>
</tr>
<tr>
<td>STA 2023</td>
<td>3</td>
</tr>
</tbody>
</table>

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

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

- PCB 3044L - Ecology lab
- PCB 3063L - Genetics lab
- PCB 4683L - Evolutionary Biology Lab

**Math - Non-Core: designed with †**

- At least 22 hours of restricted electives are required, following stipulations:
  - ____________3
  - Courses must be selected from those listed below.
  - Include one course exclusively on animals (marked a) ____________4
  - Include one exclusively on plants (marked p) ____________4
  - 10 of 22 hours must be courses offered by the Department of Biology (designated with an *). ____________10
  - Independent Study/Directed Research: may include a maximum of 40 hours 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 (3hrs)**

- p. BOT 3802* - Ethnobotany __________3

**Restricted Electives (choose one from following) (12 hrs)**

- p. BOT 3018C++ - Veterinary Botany __________3
- p. BOT 4805* - Medical Botany __________3
- p. BOT 4223C++ - Plant Anatomy __________4
- p. BOT 4503C++ - Plant Physiology __________4
- p. BOT 4713C++ - Plant Taxonomy __________5
- BSC 4330* - Invasive Ecology __________3
- PCB 3354* - Tropic Ecology & Cons. __________3

**Additional Biology Electives: (7 hours)**

- a. ANT 3550 - Primatology __________3
- a. BCH 4053 - Biochemistry 1 __________3
- a. BCH 4054 - Biochemistry 2 __________3
- a. BOT 3015* - Principles of Plant Science __________3
- a. BOT 3018C++ - Horticulture __________3
- a. BOT 3802* - Ethnobotany __________3

**Course Offerings:**

- p. BOT 4223C++ - Plant Anatomy
- p. BOT 4303C++ - Plant Kingdom
- p. BOT 4282L++ - Plant Microtechniques
- p. BOT 4927* - Plant Science Capstone
- p. BOT 4434C* - Gen Microbiology
- p. BOT 4503C++ - Plant Physiology
- p. BOT 4713C++ - Plant Taxonomy
- p. BSC 3052* - Conservation Biol
- p. BSC 4821* - Biogeography
- p. BOT 4850* - Medicinal Botany
- p. BSC 3312* - Princ Marine Biol
- p. BSC 3453* - Bio Res. Meth & Exp Design
- p. BSC 3412C++ - Adv Marine Biol
- p. BSC 4330* - Invasion Biology
- p. BSC 4445C* - Genomics Lab
- p. BSC 4861L* - Urban Ecology
- p. BSC 5258L* - Trop Bio Research
- a. ENY 3571* - Honey Bee Biol & Beekeeping
- a. ENY 4004C* - General Entomology
- a. MCB 3020C - Gen Microbiology
- a. OCE 3008* - Oceanography
- a. PAZ 4234* - Zoo & Aquaculture 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++ - Wetland Eco & Biogeochem
- a. PCB 4353* - FI Natural History
- a. PCB 4402* - Disease Eco & Immunology
- a. PCB 4514* - Genetics 2
- a. PCB 3522* - Molec Bio 1
- a. PCB 4524* - Molec Bio 2
- a. PCB 4575* - Wildlife Genomics
- a. PCB 4683L* - Evolution in Medicine
- a. PCB 4684* - Population Genetics
- a. PCB 4723* - Animal Physiology
- a. PCB 5316C* - Marine Conservation
- a. PCB 5326C* - Ecosystems of Fl
- a. PCB 5435C* - Marine Ecology of Fl
- a. PCB 5485* - Models in Ecology
- a. ZOO 3713C++ - Comp Vert Anh
- a. ZOO 3733C - Human Anatomy
- a. ZOO 4205C++ - Bio and Eco Meta Inv
- a. ZOO 4310C++ - Vet Ecol and Eco
- a. ZOO 4480* - Mammalogy
- a. ZOO 4480L++ - Mammalogy Lab
- a. ZOO 4513* - Animal Behavior
- a. ZOO 4462C++ - Herpetology
- a. ZOO 4605C++ - Embryology/Devlop
- a. ZOO 4756C++ - Comp Vert Histology
- a. ZOO 3454* - Ichthyology
- a. ZOO 33xx* - Ornithology
- a. ZOO 4910L++ - Res Exp in Zoo Env