### 1. State General Education Core
- Communication Foundation: ENC 110
- Mathematical Foundation: MAC1105C, MAC2211C, 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
  - Mathematics
  - MAC 2311C - Calculus with Analytic Geometry I
  - STA 2023 - Statistical Methods I
- Social 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
- 48 hours 3xxx-4xxx level – 35 Biology required = 13 hours left

### 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 Courses and Required Electives is required for graduation.
- Exit Exam- to be completed upon completion of Biology courses.
- 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
- BSC 2011C Biology 2
- PCB 3023 Molec Cell Bio
- PCB 3044 Ecology
- PCB 3063 Genetics
- PCB 4683 Evolutionary Biology

### 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>General Chemistry I</td>
</tr>
<tr>
<td>CHM 2046L</td>
<td>General Chemistry II</td>
</tr>
<tr>
<td>CHM 2210</td>
<td>Chemistry of Life</td>
</tr>
<tr>
<td>CHM 2211L</td>
<td>Chemistry of Life Lab</td>
</tr>
<tr>
<td>PHY 2053C</td>
<td>Physics for Scientists</td>
</tr>
<tr>
<td>PHY 2054C</td>
<td>Physics for Scientists</td>
</tr>
</tbody>
</table>

**Math Placement Test:** MAT1033C, MAC1105, MAC1144, MAC 1140, MAC 2311 or MAC 2233 or MAC 2253

### 5B. Lab requirement - Two labs
- At least one of these must be taken from section A - Core.

#### A - Core:
- **PCB 3044L** - Plant Kingdom
- **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:
- 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 *), and 10 hours from upper division.
- Independent Study/Directed Research: May include a maximum of 4 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 (choose two of the following four courses) (6-8hr)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>BSC 3052*</td>
<td>Conservation Biol</td>
</tr>
<tr>
<td>BSC 4821*</td>
<td>Biogeography</td>
</tr>
<tr>
<td>PCB 4684*</td>
<td>Population Genetics</td>
</tr>
<tr>
<td>ZOO 4310C*</td>
<td>Vert Eto and Eco</td>
</tr>
</tbody>
</table>

**Restricted Electives (choose from following) (7-9 hrs)**
- **BOT 4303C** - Plant Kingdom
- **BSC 3043** - GIS for Biologists
- **BSC 4330** - Invasion Biology
- **BSC 4821** - Biogeography
- **BSC 3052** - Conservation Biol
- **BSC 4861L** - Urban Ecology
- **OCE 3008** - Oceanography
- **PCB 3343L** - Princ Field Ecology
- **PCB 3044L** - Ecology Lab
- **PCB 3355L** - FL Natural History Lab
- **PCB 4723** - Animal Physiology
- **PCB 5326C** - Ecosystems of FI
- **PCB 5435C** - Marine Ecology of FI
- **PCB 5485** - Models in Ecology
- **ZOO 3713C** - Comp Vert Anat
- **ZOO 3733C** - Human Anatomy
- **ZOO 4205C** - Bio and Eco Meta Inv
- **ZOO 4310C** - Vert Eto and Eco
- **ZOO 4405C** - Sea Turtle Internship
- **ZOO 4480** - Mammalogy
- **ZOO 4480L** - Mammalogy Lab
- **ZOO 4513** - Animal Behavior
- **ZOO 4462C** - Herpetology
- **ZOO 4603C** - Embryology/Develop
- **ZOO 4756C** - Comp Vert Histology
- **ZOO 3454** - Ichthyology
- **ZOO 3930** - Ornithology
- **ZOO 4910L** - Res Exp in Zoo Env