

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
   - ENC 2103 - Fundamentals of Technical Presentations
   - Cultural & Historical Foundations
   - Mathematical Foundations
   - 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.
   - At least 2.0 needed: _______UCF GPA _______ Major GPA
   - 48 hours 3xxx-4xxx level – 35 Biology requires = 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 Classes 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 Biology 4
   - BSC 2011C Biology 2 4
   - PCB 3023 Molec Cell Bio 3
   - PCB 3044 Ecology 3
   - PCB 3065 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.

### General Biology B.S Track

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2045C (or CHM 2040) 2041</td>
<td>4/3 3</td>
</tr>
<tr>
<td>CHM 2046</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2046L</td>
<td>1</td>
</tr>
<tr>
<td>CHM 2210 2205</td>
<td>3 1</td>
</tr>
<tr>
<td>CHM 2211 3210</td>
<td>3 1</td>
</tr>
<tr>
<td>PCB 3063L</td>
<td>2 1</td>
</tr>
<tr>
<td>PHY 2053C or PHY 2048C</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2054C</td>
<td>4</td>
</tr>
</tbody>
</table>

**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 MAC 2233 or MAC 2253</td>
<td>3</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.

- **A - Core:**
  - PCB 3044L - Ecology lab
  - 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:**

- 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.

### 6A. Restricted Electives (22 hrs)

**Upper division restricted electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. ANT 3550C Primatology</td>
<td>3</td>
</tr>
<tr>
<td>BIC 4024 Medical Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>BIC 4053 Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>BIC 4054 Biochemistry 2</td>
<td>3</td>
</tr>
<tr>
<td>p. BOT 3015† Principles of Plant Science</td>
<td>3</td>
</tr>
<tr>
<td>p. BOT 3018C†† Culinary Botany</td>
<td>3</td>
</tr>
<tr>
<td>p. BOT 3802* Ethnobotany</td>
<td>3</td>
</tr>
<tr>
<td>p. BOT 4223C* Plant Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>p. BOT 4282L†† Plant Microtechniques</td>
<td>2</td>
</tr>
<tr>
<td>p. BOT 4303C†† Plant Kingdom</td>
<td>4</td>
</tr>
<tr>
<td>p. BOT 4503C†† Plant Physiology</td>
<td>4</td>
</tr>
<tr>
<td>p. BOT 4530C†† Plant Genetics and Biochem</td>
<td>4</td>
</tr>
<tr>
<td>p. BOT 4653C* Biology of Fungi</td>
<td>4</td>
</tr>
<tr>
<td>p. BOT 4713C Plant Taxonomy</td>
<td>5</td>
</tr>
<tr>
<td>p. BOT 4850* Medical Botany</td>
<td>3</td>
</tr>
<tr>
<td>BOT 4922* Plant Science Capstone</td>
<td>2</td>
</tr>
<tr>
<td>a. BOT 4970H Honors Undergrad. Thesis</td>
<td>3</td>
</tr>
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**Advisor**

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<tr>
<th>Name</th>
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<tr>
<td>Date</td>
<td>Advisor</td>
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- BIOS 3052* Conservation Biol
- BIOS 3312* Princ Marine Biol
- BIOS 3453* Bio Res. Meth & Exp Design
- BIOS 4312C‡‡ Adv Marine Biol
- BIOS 4330* Invasion Biology
- BIOS 4445C‡‡ Genomics Lab
- BIOS 4456C* Programming for Bio
- BIOS 4821* Biogeography
- BIOS 4861L Urban Ecology
- BIOS 4927* Scientific Engagement
- BIOS 4932* Scientific Diving
- BIOS 5258L Trop Bio Research
- BIOS 5316* Marine Conservation
- ENY 3571‡‡ Honey Bee Bio & Beekeeping
- ENY 4004‡‡ General Entomology
- MCB 3020C Gen Microbiology
- MCB 3037C Oceanography
- MCB 4234* Zook & Aquatic Biology
- PCB 3044L* Ecology Lab
- PCB 3063L* Genetics Lab
- PCB 3233 Immunology
- PCB 3343L* Princ Field Ecology
- PCB 3354L Tropic Ecology & Cons.
- PCB 3355L* Tropical Marine Bio
- PCB 3442* Aquatic Ecology
- PCB 3522 Molec Bio I
- PCB 3703C Human Physiology
- PCB 4301C‡‡ Wetland Eco & Biogeochem
- PCB 4353L* FL Ecology Lab
- PCB 4402* Disease Eco & Immunology
- PCB 4413* Sensory Ecology
- PCB 4462* GIS for Biologists
- PCB 4514 C* Genomics
- PCB 4516E Marine Biology of Florida
- PCB 4524 Molec Biol 2
- PCB 4575L* Wildlife Genomics
- PCB 4683L* Evol. Biology Lab
- PCB 4684* Evolution in Medicine
- PCB 4685* Population Genetics
- PCB 4723* Animal Physiology
- PCB 5326C* Ecosystems of Fl
- PCB 5435C* Marine Ecology of Fl
- PCB 5485* Models in Ecology
- ZOO 3715C‡ Comp Vert Anat
- ZOO 3733C Human Anatomy
- ZOO 3945A Ichthyology
- ZOO 4205C‡‡ Bio and Eco Meta Inv
- ZOO 4272* Ornithology
- ZOO 4310C‡‡ Vet Eco and Eve
- ZOO 4405C Sea Turtle Internship
- ZOO 4462C* Herpetology
- ZOO 4480* Mammalogy
- ZOO 4480L Mammalogy Lab
- ZOO 4513* Animal Behavior
- ZOO 4603C‡‡ Embryology/Develop
- ZOO 4756C‡‡ Comp Vert Histology
- ZOO 4910L* Res Exp in Zoo Env