Subject to change

Offered Updated 6/28/22

1. **State General Education Core**
   - Communication Foundation: ENC 1101
   - Mathematical Foundation: MAC 1105C, MAC 2311C, MGF 1106, MGF 1107, STA 2023
   - 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
     - MAC 2311C - Calculus with Analytic Geometry I
   - Departmental Residency Requirement
     - A minimum of a C (2.0) in all Biology offered Core Classes is required.
     - 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: 22 hours of regularly scheduled upper division courses must be taken in the UCF Biology Department.

3. **University Requirements**
   - 9 hours of summer enrollment (total) in academic career.
   - 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)
   - 7 of 9

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

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 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.

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**Summer 2023**

**General Biology B.S Track**

**Summer 2021 - Present**

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

**Chemistry Placement Test: CHM1025 Intro to Chemistry**

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2045C</td>
<td>Chemistry Fundamentals I</td>
<td>4</td>
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<tr>
<td>CHM 2046C</td>
<td>Chemistry Fundamentals II</td>
<td>3</td>
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<tr>
<td>CHM 2046L</td>
<td>Chemistry Fundamentals Lab</td>
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</tr>
<tr>
<td>CHM 2210</td>
<td>CHM 2205</td>
<td>3/5</td>
</tr>
<tr>
<td>CHM 2211</td>
<td>CHM 3120</td>
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<tr>
<td>CHM 2211L</td>
<td>CHM 3120L</td>
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**Math Placement Test:**

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<tbody>
<tr>
<td>MAC 2311</td>
<td>Calculus with Analytic Geometry I</td>
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</tr>
</tbody>
</table>

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

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

A - Core:

- PCB 3044L - Evolutionary Biology Lab
- PCB 3044L - Evolutionary Biology Lab
- PCB 4683 - 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 *). 10 of 10
- Independent Study/Directive 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>Department</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>BCH 4024</td>
<td>Medical Biochemistry</td>
<td>4</td>
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<tr>
<td>BCH 4053</td>
<td>Biochemistry 1</td>
<td>3</td>
</tr>
<tr>
<td>BCH 4054</td>
<td>Biochemistry 2</td>
<td>3</td>
</tr>
<tr>
<td>p. BOT 3015</td>
<td>Principles of Plant Science</td>
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</tr>
<tr>
<td>p. BOT 3018C</td>
<td>Cytological Botany</td>
<td>3</td>
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<tr>
<td>p. BOT 3802</td>
<td>Ethnobotany</td>
<td>3</td>
</tr>
<tr>
<td>p. BOT 4223C</td>
<td>Plant Anatomy</td>
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</tr>
<tr>
<td>p. BOT 4650C</td>
<td>Plant Physiology</td>
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<tr>
<td>p. BOT 4713C</td>
<td>Plant Taxonomy</td>
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<td>p. BOT 4850</td>
<td>Medical Botany</td>
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<td>p. BOT 4922</td>
<td>Plant Science Capstone</td>
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<tr>
<td>p. BOT 4970H</td>
<td>Honors Undergrad. Thesis</td>
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</table>

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**Advisor**

**Date**

- BSC 3052* Conservation Biol 3
- BSC 3312* Princ Marine Biol 3
- BSC 3453* Bio Res. Meth & Exp Design 3
- BSC 4310* Service Learning Marine Conserv 3
- BSC 4312C* Adv Marine Biol 4
- BSC 4330* Invasion Biology 3
- BSC 4454C* Genomics Lab 3
- BSC 4456C* Scientific Dev 4
- BSC 4821* Biogeography 4
- BSC 4861L* Urban Ecology 3
- BSC 4910C* Group Eff Applied Resear 4
- BSC 4927* Scientific Engagement 3
- BSC 525L* Crop Bio Research 3
- BSC 5316* Marine Conservation 4

- ENY 3371* Honey Bee Bio & Beekeeping 3
- ENY 4004C* General Entomology 4
- MCB 3020C Gen Microbiology 5
- OCE 3008* Oceanography 3
- PAZ 4234* Zoo & Aquatic Mgt 2
- PCB 3044L* Ecology Lab 1
- PCB 3063L* Genetics Lab 1
- PCB 3233* Immunology 3
- PCB 3343L* Pirc Field Ecology 7
- PCB 3354* Tropic Eco & Cons. 3
- PCB 3355L* Tropical Marine Bio 3
- PCB 3442* Aquatic Ecology 3
- PCB 3522 Molec Biol I 3
- PCB 3703C* Human Physiology 4
- PCB 4301C* Wetland Eco & Biogeochem 4
- PCB 4553* Nat. Hist. & Cons. 3
- PCB 4553L* FL Ecology Lab 3
- PCB 4402* Disease Eco & Immunology 3
- PCB 4413* Sensory Ecology 3
- PCB 4462* GIS for Biologists 3
- PCB 4514* Genetics II 3
- PCB 4315C* Marine Ecology of Florida 3
- PCB 4524 Molec Bio 2 3
- PCB 4575* Wildlife Genetics 3
- PCB 4683L* Evol. Biology Lab 1
- PCB 4678* Evolution in Medicine 3
- PCB 4684* Population Genetics 3
- PCB 4723* Animal Physiology 4
- PCB 5326C* Ecosystems of FL 5
- PCB 5435C* Marine Ecology of FL 3
- PCB 5485* Models in Ecology 3
- ZOO 3713* Comp Vert 3
- ZOO 3713L* Comp Vert Lab 1
- ZOO 3733C Human Anatomy 3
- ZOO 3454* Ichthyology 3
- ZOO 4025C* Invertebrate Biodiversity 3
- ZOO 4272* Herpetology 4
- ZOO 4462C* Mammalogy 4
- ZOO 4480L* Mammalogy Lab 4
- ZOO 4513* Animal Behavior 3
- ZOO 4603C* Embryology/Develop 5
- ZOO 4756C* Comp Vert Histology 4
- ZOO 4910L* Res Exp in Zoo Env 3

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Updated 6/28/22