### Pre-Professional Biology Track
#### Catalog Year: 2016-2019

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2045C</td>
<td>General Chemistry</td>
<td>3/4</td>
</tr>
<tr>
<td>CHM 2046</td>
<td>General Chemistry Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2040L</td>
<td>General Chemistry Laboratory</td>
<td>1/2</td>
</tr>
<tr>
<td>PCB 2210</td>
<td>Principles of Plant Science</td>
<td>2/3</td>
</tr>
<tr>
<td>PCB 2211</td>
<td>Principles of Plant Science</td>
<td>3/5</td>
</tr>
<tr>
<td>PCB 2211L</td>
<td>Principles of Plant Science Laboratory</td>
<td>2/3</td>
</tr>
<tr>
<td>PHY 2053C</td>
<td>Physical Science A</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2054C</td>
<td>Physical Science B</td>
<td>4</td>
</tr>
</tbody>
</table>

#### Math Placement Test: MAT 1033C (or MAC 1104), MAC 1114, MAC 1140, MAC 2311 or MAC 2233 or MAC 2253

- **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 3056L: Genetics Lab
  - PCB 4683L: Evolutionary Biology Lab

- **B - Non-Core:**
  - Designated with †

#### 6. 22 hours of restricted electives are required, with the 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 †), of 10.
- 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 Biology Faculty.

#### Required Electives (choose two of the following courses) (9-10 hrs)

- a. PCB 4723* Animal Physiology 4
- a. ZOO 3713C* Comp Vert Anat 5
- a. ZOO 4603† Embryology/Development 5

#### Restricted Electives (5-6 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCH 4053</td>
<td>Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>BCH 4054</td>
<td>Biochemistry II</td>
<td>3</td>
</tr>
<tr>
<td>p. BOT 4850* Medical Botany</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>p. PCB 3233</td>
<td>General Microbiology</td>
<td>3</td>
</tr>
<tr>
<td>p. PCB 4514* Genetics I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>p. PCB 4514† Genetics II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>a. PCB 4723* Animal Physiology</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>a. ZOO 3713C† Comp Vert Anat 5</td>
<td></td>
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<tr>
<td>a. ZOO 3733C Human Anatomy 4</td>
<td></td>
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</tr>
<tr>
<td>a. ZOO 4205C† Bio and Eco Meta Inv 4</td>
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<td></td>
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<tr>
<td>a. ZOO 4513* Animal Behavior 3</td>
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<tr>
<td>a. ZOO 4603† Embryology/Development 5</td>
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<td></td>
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<tr>
<td>a. ZOO 4756C† Comp Vert Histology 4</td>
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</table>

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

- a. ANT 3550C Primatology 3

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**Name:______________**

**UCFID:______________**

1. **State General Education Core**
   - Communication Foundation: ENC 110
   - 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 1603 - 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
     - BSC 2045C - Chemistry Fundamentals I

3. **University Requirements**
   - 9 hours of summer enrollment (total) in academic career.
   - At least 2.0 needed: UCF GPA 3.0 Major GPA
   - 48 hours 3xxx-4xxx level - 35 Biology required = 13 hours left (to be satisfied with free electives or minor) 4 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 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 2020A Anatomy & Biology 4
   - BSC 2011C Biology 2 4
   - PCB 2003 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.