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
   - SPC 1603C - Fundamentals of Technical Presentations

   Cultural & Historical Foundations
   - Mathematical Foundations: Mathematics
   - MAC 2311C - Calculus with Analytic Geometry I
   - STA 2023 - Statistical Methods I

   Statistics

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 requires = 13 hours left (to be satisfied with free electives or minor) _______ of 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.
   - 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 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 2012C Anatomy      4
   - BSC 2011C Biology 2 4
   - BSC 2023 Cell Bio 3
   - PCB 3044 Ecology 3
   - PCB 3065 Genetics 3
   - PCB 4863 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.

   Marine & Aquatic Biology Track

   Catalog Year: 2020-2021

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHM 2045C (or CHM 2040_2041)</td>
<td>4/3</td>
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<tr>
<td>CHM 2046</td>
<td>3</td>
</tr>
<tr>
<td>CHM 2046L</td>
<td>1</td>
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<tr>
<td>CHM 2210</td>
<td>3/5</td>
</tr>
<tr>
<td>CHM 2211L or CHM 3120</td>
<td>3/3</td>
</tr>
<tr>
<td>CHM 2211L</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>
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</tbody>
</table>

Math Placement Test: MAT1033C, MAC1105C, MAC1114C, MAC 1140, MAC 2311 or MAC 2233 or MAC 2253 4
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 3063L - Genetics lab
- PCB 4863L - Evolutionary Biology Lab

B - Non-Core: designated with *

6. 22 hours of restricted electives are required, with following stipulations: of 22 hours RE GPA

- 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 *), of 10
- 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.

Required Electives (choose one of the following courses) (3hr)

- BSC 3312* Principles of Marine Biology    3
- OCE 3008* Oceanography                    3
- PCB 3442* Aquatic Ecology                3

Restricted Electives (12 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 4312C*† Adv Marine Biol</td>
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</tr>
<tr>
<td>PCB 4932* Scientific Diving</td>
<td>4</td>
</tr>
<tr>
<td>OCE 3008* Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>PCB 3355L* Tropical Marine Bio</td>
<td>2</td>
</tr>
<tr>
<td>PCB 3442* Aquatic Ecology</td>
<td>4</td>
</tr>
<tr>
<td>PCB 4301C*‡ Wetland Eco &amp; Biogeochem</td>
<td>4</td>
</tr>
<tr>
<td>PCB 4316C*‡ Marine Ecology of Florida</td>
<td>4</td>
</tr>
<tr>
<td>a. PAZ 4234* Zoopl Aquar Mgmt</td>
<td>4</td>
</tr>
<tr>
<td>a. ZOO 4205C‡ Bio and Eco Meta Inv</td>
<td>4</td>
</tr>
<tr>
<td>a. ZOO 4310C‡ Vert Evo and Eco</td>
<td>4</td>
</tr>
<tr>
<td>a. ZOO 4405C‡ Sea Turtle Internship</td>
<td>4</td>
</tr>
<tr>
<td>a. ZOO 4462C‡ Herpetology</td>
<td>4</td>
</tr>
<tr>
<td>a. ZOO 3454* Ichthyology</td>
<td>4</td>
</tr>
</tbody>
</table>

Additional Biology Electives: (7 hours)

- a. ANT 3550C† Primatology      3
- a. BCH 4024 Medical Biochemistry 4

Advisor________________________ Date _______