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
- MAC 2311C - Calculus with Analytic Geometry I

Statistics
- STA 2023 - Statistical Methods I

Social Foundations
- BSC 2010C - Biology I Credit Hours: 4
- 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 xxx-xxx 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.
- 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 4
- BSC 2011/2 Biology 2 4
- PCB 3023 Molec Cell Bio 3
- PCB 3044 Ecology 3
- PCB 3063 Genetics 3
- PCB 4683 Evolutionary Biology 4

Zoology and Pre-Veterinarian Track
Catalog Year: 2016-2017

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2040C (or CHM 2040__2041__)</td>
<td>4/3</td>
</tr>
<tr>
<td>CHM 2046</td>
<td>3</td>
</tr>
<tr>
<td>CHM 204L</td>
<td>4</td>
</tr>
<tr>
<td>CHM 2210</td>
<td>3/3</td>
</tr>
<tr>
<td>CHM 2211 or CHM 3120</td>
<td>3/5</td>
</tr>
<tr>
<td>CHM 2211L</td>
<td>2/1</td>
</tr>
<tr>
<td>PHY 2053C or PHY 2048&amp; L</td>
<td>4</td>
</tr>
<tr>
<td>PHY 2054C PHY 2049 &amp; L</td>
<td>4</td>
</tr>
</tbody>
</table>

Math Placement Test: MAC1105__, MAC1114__, 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 3041L - Ecology lab
- +PCB 3063L - Genetics lab
- ENY 4633L - Evolutionary Biology Lab

B - Non-Core: designated with ↑

6. 22 hours of restricted electives are required, with following stipulations:
   - ___ of 22 hours
   - 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
Courser Option: instructor. You will be charged graduate level tuition.

Required Electives (choose one of the following) (3-4 hours)
a. PCB 4723* Animal Physiology 4
b. ZOO 4515* Animal Behavior 3

Restricted Electives (choose from the following) (11-12hrs)
a. PCB 4723* Animal Physiology 4
b. ZOO 4515* Animal Behavior 3
c. ANT 3550C Primateology 3
d. ENY 4604C* General Entomology 3
• P. PAZ 4234* Zook Aquarium Mgt 3
• ZOO 3345* Ichthyology 3
• ZOO 3715C* Comp Vert Anat 5
• ZOO 3903* Ornithology 2
• ZOO 4205C* Bio and Eco Meta Inv 4
• ZOO 4310C* Vert Ewo and Eco 4
• ZOO 4406C* Sea Turtle Internship 3
• ZOO 4462C* Herpetology 4
• ZOO 4480P* Mammalogy Lab 1
• ZOO 4603C* Embryology/Develop 5
• ZOO 4753C* Comp Vert History 4
• ZOO 4910L* Res Exp in Zoo Envi 3

Additional Biology Electives: (6-8 hours)
a. ANT 3550C Primateology 3
b. BCH 4024 Medical Biochemistry 4
c. BCH 4053 Biochemistry 1 3
d. BCH 4054 Biochemistry 2 3
• P. BOT 3015* Principles of Plant Science 3
e. BOT 3018C* Culinary Botany 4
• P. BOT 3802* Ethnobotany 3
• P. BOT 4223C* Plant Anatomy 5
• P. BOT 4303C* Plant Kingdom 4
• ZOO 4282L* Plant Microtechniques 2
• ZOO 4922* Plant Science Capstone 2
• P. BOT 4434C* Gen Mycology 4
• P. BOT 4503C* Plant Physiology 4
• P. BOT 4715C* Plant Toxicology 5
• P. BOT 4970H Honors Undergrad. Thesis 3
• BSC 304* GIS for Biologists 3
• BSC 3052* Conservation Biol 3
• BSC 4445C* Genomics Lab 4
• BSC 4821* Biogeography 4
• P. BOT 4850* Medical Botany 4
• BSC 3312* Princ Marine Biol 3
• BSC 3435* Bio Res. Mech & Exp Design 3
• BSC 4312C* Adv Marine Biol 4
• BSC 4330* Invasion Biology 3
• BSC 4434C* Programming for Bio 3
• BSC 4861L* Urban Ecology ___ 3
• BSC 4927* Scientific Engagement 3
• BSC 5258L* Trop Bio Research 3
• BSC 5316* Marine Conservation 4
a. ENY 3571* Honey Bee Biol & Beekeeping 3
a. ENY 4004C* General Entomology 4
• MCB 3020C Gen Microbiology 5
• OCE 3008* Oceanography 3
a. PAZ 4234* Zook & Aquarium Mgt 3
• PCB 3041L* Ecology Lab 1
• PCB 3063L* Genetics Lab 3
• PCB 3233 Immunology 3
• PCB 3313L* Princ Field Ecology 1
• PCB 3534* Tropic Ecology & Cons. 3
• PCB 3535L* Tropical Marine Bio 2
• PCB 3442* Aquatic Ecology 3
• PCB 3705C* Human Physiology 3
• PCB 4301C* Wetland Eco & Biogeochem. 3
• PCB 4316C* Marine Ecology of Florida 3
• PCB 4353* Fl Natural History ___ 3
• PCB 4353L* Fl Natural History Lab 1
• PCB 4402* Disease Eco & Immunology 3
• PCB 4415* Sensory Ecology 3
• PCB 4514* Genetics 2
• PCB 3252 Molec Bio 1 3
• PCB 4524 Molec Bio 2 3
• PCB 4575* Wildlife Genomics 3
• PCB 4683L* Evol. Ecology Lab 1
• PCB 4678* Evolution in Medicine 3
• PCB 4684* Population Genetics 4
• PCB 4732* Animal Physiology 4
• PCB 5326C* Ecosystems of Fl 5
• PCB 5435C* Marine Ecology of Fl 4
• PCB 5485* Models in Ecology 3
• ZOO 3713C* Human Anatomy 3
• ZOO 3733C Human Anatomy 3
• ZOO 4205C* Bio and Eco Meta Inv 4
• ZOO 4310C* Vert Ewo and Eco 4
• ZOO 4406C* Sea Turtle Internship 3
• ZOO 4480* Mammalogy 3
• ZOO 4480L* Mammalogy Lab 1
• ZOO 4490L* Herpetology 4
• ZOO 4515* Animal Behavior 3
• ZOO 4753C* Comp Vert Histology 4
• ZOO 4345* Ichthyology 3
• ZOO 3903* Ornithology 3
• ZOO 4600C* Embryology/Develop 5
• ZOO 4910L* Res Exp in Zoo Envi 3

Advisor _____________________________ Date ______________