**State General Education Core**
- Communication Foundation: ENC 110
- Mathematical Foundation: MAC1105C, MAC2311C, MGF1106, MGF1107, STA2023
- Science Foundation: CHM 2045C, BSC 2010C

**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
    - STA 2023 - Statistical Methods I
- Social Foundations
  - BSC 2010C - Biology I Credit Hours: 4
  - CHM 2045C - Chemistry Fundamentals I

**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

**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.

**Biology core courses (21 hours)**
- BSC 2010C Gen Biology ___
- BSC 201 Biology 2 ___
- PCB 3025 Molec Cell Bio ___
- PCB 3044 Ecology ___
- PCB 3063 Genetics ___
- PCB 4683 Evolutionary Biology ___

** Zoology and Pre-Veterinarian Track**

*Course Catalog Year: Summer 2020 – Spring 2021*

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

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

- CHM 2045C Chemistry Fundamentals I ___
- CHM 2046 Chemistry Fundamentals II ___
- CHM 2046L Chemistry Fundamentals Lab ___
- CHM 2210 CHM 2205 ___
- CHM 2211 or CHM 3120 ___
- CHM 2211L CHM 3120L ___
- PHY 2053C (or +L) or PHY 2048C (or +L) ___
- PHY 2054C (or +L) or PHY 2049C (or +L) ___

**Math Placement Test: MAT1033C, MAC1105C, MAC1114C, MAC 1140C**

- MAC 2311 or MAC 2233 or MAC 2253 Calculus ___
- STA 2023 Statistical Methods I ___

**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 4685L - Evolutionary Biology Lab

**B - Non-core: designated with ?**

- **6. 22 hours of restricted electives are required, following with 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 *b) ___
  - 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) (3-4 hours)

- a PCB 4723* Animal Physiology ___
- a ZOO 4513* Animal Behavior Behavior ___

**Classes that satisfy the Required Electives cannot duplicate towards this section. If you take both Required Electives, one will count here.**

**Restrict Electives**

(choose from the following) (11-12hrs)

- BSC 4821* Biogeography ___
- PCB 4402* Disease & Eco Immunology ___
- PCB 4575* Wildlife Genetics ___
- a PCB 4723* Animal Physiology ___
- a ZOO 4513* Animal Behavior Behavior ___
- a ANT 3550C Primatology ___
- a ENY 4004C+ General Entomology ___
- a PAZ 4234* Zool & Aquarium Mgt ___
- PCB 3044L Ecology Lab ___
- PCB 3063L Genetics Lab ___
- PCB 3233 Immunology ___
- PCB 3343L Princ Marine Biol ___
- PCB 3353L Tropical Marine Bio ___
- PCB 4424* Aquatic Ecology ___
- PCB 3107C Human Physiology ___
- PCB 4301C* FL Eco & Biochem. ___
- PCB 4313C+ Marine Ecology of Florida ___
- PCB 4531L* FL Ecology Lab ___
- PCB 4402* Disease & Eco Immunology ___
- a PCB 4415* Sensory Ecology ___
- PCB 4514* Genetics II ___
- PCB 3522 Molec Bio I ___
- PCB 4462* GIS for Biologists ___
- PCB 4524 Molec Bio 2 ___
- PCB 4575* Wildlife Genetics ___
- PCB 4683L* Evol. Ecology Lab ___
- PCB 4678* Evolution in Medicine ___
- PCB 4684* Population Genetics ___
- a PCB 4723* Animal Physiology ___
- a PCB 4575* Ecosystems of FL ___
- a PCB 4535C* Marine Ecology of FL ___
- a PCB 4585* Models in Ecology ___
- a ZOO 3714C+ Comp Vert Anat ___
- ZOO 7333C Human Anatomy ___
- a ZOO 4205C+ Invertebrate Biodiversity ___
- a ZOO 4310C+ Vert Eco and Eco ___
- a ZOO 4405C+ Sea Turtle Internship ___
- a ZOO 4480* Mammalogy ___
- a ZOO 4480L* Mammalogy Lab ___
- a ZOO 4462C* Herpetology ___
- a ZOO 4513* Animal Behavior Behavior ___
- a ZOO 4756C+ Comp Histology ___
- a ZOO 4345* Ichthyology ___
- a ZOO 4272* Ornithology ___
- a ZOO 4663C+ Embryology/Develop ___
- a ZOO 4910L* Res Exp in Zoo Env ___
- a ZOO 4910L* Res Exp in Zoo Env ___

**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.