### 1. State General Education Core
- Communication Foundation: ENC 1101, ENC 1102
- 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
  - MAC 2311C - Fundamentals of Technical Presentations
- Cultural & Historical Foundations
  - Mathematical Foundations
  - MAC 2311C - Calculus with Analytic Geometry I
  - STA 2023 - Statistical Methods I
- Social Foundations
  - Science Foundations
    - BSC 2010C - Biology I
    - CHM 2045C - Chemistry Fundamentals I

### 3. University Requirements
- 9 hours of summer enrollment (total) in academic career.
- At least 2.0 needed: UCF GPA Major GPA
- 48 hours 3xxx-4xxx level - 35 Biology requires = 13 hours left
- 22 hours of regularly scheduled upper division courses must be taken in the UCF Biology Department.
- At least one lab must come from section A - Core.
- 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.

### 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.
- Exams to be completed upon completion of Biology core courses.

### 5. Biology core courses (21 hours)
- BSC 2010C Gen Biology
- BSC 2011C Biology
- PCB 3023 Molec Cell Bio
- PCB 3044 Ecology
- PCB 3063 Genetics
- PCB 4683 Evolutionary Biology

### 5A. Cognate Sciences Core (31-33 hours)
- CHM 2045C Chemistry Fundamentals 1
- CHM 2046 Chemistry Fundamentals II
- CHM 2046L Chemistry Fundamentals Lab
- PHY 2053C or PHY 2048C 4/3 1
- PHY 2054C or PHY 2049C 4/3 1

### Math Placement Test: MAC1105, MAC1114, MAC 1140
- MAC 2311 or MAC 2253 Calculus
- STA 2023 Statistical Methods

### 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 4683L - 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).

### 6A. Restricted Electives (22 hrs)
- Upper division restricted electives
  - a. ANT 3550C Primate Anatomy 3
  - a. BCH 4024 Medical Biochemistry 4
  - a. BCH 4053 Biochemistry I 3
  - a. BCH 4054 Biochemistry II 3
  - p. BOT 3015C Principles of Plant Science 3
  - p. BOT 3018C Principles of Plant Science 3
  - p. BOT 380Z Ethnobotany 3
  - p. BOT 4223C Plant Anatomy 4
  - p. BOT 4282C Plant Microtechniques 4
  - p. BOT 4303C Plant Physiology 4
  - p. BOT 4303C Plant Physiology 4
  - p. BOT 4503C Plant Physiology 4
  - p. BOT 4713C Plant Taxonomy 5
  - p. BOT 4850C Medical Botany 3
  - p. BOT 4922C Plant Science Capstone 2
  - BOT 4970H Honors Undergrad. Thesis 3

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**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.