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 160C - 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 (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 2010C Genetics
- BSC 2011C Biology 2
- PCB 3023 Molec Cell Bio
- PCB 3044 Ecology
- PCB 3063 Genetics
- PCB 4683 Evolutionary Biology

6. 22 hours of restricted electives are required, with following stipulations:
- Courses must be selected from those listed.
- 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 *).
- 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 Elective (3hr)
- BOT 3015* Principles of Plant Science

Restricted Electives (choose at least one course from Group A and two from Group B remaining credits can be from any (14) hrs)

Group A
- BOT 4922* Plant Science Capstone
- BOT 4941* Arboretum Garden Internship
- BOT 4970I Honors Undergraduate Thesis
- BSC 4941* Arboretum Project Internship

Group B
- BOT 4223C* Plant Anatomy
- BOT 4828L* Plant Microtechniques
- BOT 4903C* Plant Kingdom
- BOT 4503C* Plant Physiology
- BOT 4530C* Plant Genomics and Biochemistry
- BOT 4713C* Plant Taxonomy
- BOT 4912 Directed Independent Research
- BSC 4353* Bio Res. Meth & Exp Design

Group C (Other Restricted Electives)
- BOT 3018C* Culinary Botany
- BOT 3802* Ethnobotany
- BOT 4653C* Biology of Fungi
- BOT 4850* Medical Botany
- BSC 4330* Invasion Biology
- a. ENY 3571H* Honey Bee Book Beekeeping
- PCB 4462* GIS for Biologists

5A. Cognate Sciences Core (31-33 hours)
- Chemistry Placement Test: CHM 2040, CHM 2041, or CHM 2045

CHM 2045C (or CHM 2040_2041) 4/0
CHM 2046 3/3
CHM 2046L 1/1
CHM 2210_2215 3/5
CHM 2211 or 3120 3/3
CHM 2211L 2/1
PHY 2053C or PHY 2048C 4/4
PHY 2054C or PHY 2048C 4/4

MAC 2311 or 2333 or MAC 2253 4/4
STA 2023 3/3

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 4683L* Evolutionary Biology lab
- b. Non-Core: designated with *)

- 22 hours of restricted electives are required, with following stipulations:
- Courses must be selected from those listed.
- 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 *).
- 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 Elective (3hr)
- BOT 3015* Principles of Plant Science

Restricted Electives (choose at least one course from Group A and two from Group B remaining credits can be from any (14) hrs)

Group A
- BOT 4922* Plant Science Capstone
- BOT 4941* Arboretum Garden Internship
- BOT 4970I Honors Undergraduate Thesis
- BSC 4941* Arboretum Project Internship

Group B
- BOT 4223C* Plant Anatomy
- BOT 4828L* Plant Microtechniques
- BOT 4903C* Plant Kingdom
- BOT 4503C* Plant Physiology
- BOT 4530C* Plant Genomics and Biochemistry
- BOT 4713C* Plant Taxonomy
- BOT 4912 Directed Independent Research
- BSC 4353* Bio Res. Meth & Exp Design

Group C (Other Restricted Electives)
- BOT 3018C* Culinary Botany
- BOT 3802* Ethnobotany
- BOT 4653C* Biology of Fungi
- BOT 4850* Medical Botany
- BSC 4330* Invasion Biology
- a. ENY 3571H* Honey Bee Book Beekeeping
- PCB 4462* GIS for Biologists

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.

Additional Biology Electives: (5 hours)

- Richelieu (3)
- PCB 3044L* Ecology Lab
- PCB 3063L* Genetics Lab
- PCB 3232 Immunology
- PCB 3344L* Princ Field Ecology
- PCB 3355L* Tropical Marine Bio
- PCB 3442* Aquatic Ecology
- PCB 3552 Molec Bio I
- PCB 3703 Human Physiology
- PCB 4103C* Wetland Eco & Bioticogeochem.
- PCB 4136C Marine Ecology of Florida
- PCB 4353L FL Natural History Lab
- PCB 4402* Disease Eco & Immunology
- PCB 4438* Sensory Ecology
- PCB 4462* GIS for Biologists
- PCB 4514* Genetics II
- PCB 4524 Molec Bio 2
- PCB 4575* Wildlife Genetics
- PCB 4683L* Evol. Biology Lab
- PCB 4686* Evolution in Medicine
- PCB 4686* Population Genetics
- PCB 4723* Animal Physiology
- PCB 5316* Marine Conservation
- PCB 5326C* Ecosystems of FL
- PCB 5435C* Marine Ecology of FL
- PCB 5468* Models in Ecology
- a. ZOO 3731C Comp Vert Anat
- a. ZOO 3733C Human Anatomy
- a. ZOO 4205C* Bio and Eco Meta Inv
- a. ZOO 4272* Ornithology
- a. ZOO 4310C* Vert Eco and Eco
- a. ZOO 4405C* Sea Turtle Internship
- a. ZOO 4462C* Herpetology
- a. ZOO 4480* Mammalogy
- a. ZOO 4480L* Mammalogy Lab
- a. ZOO 4513* Animal Behavior
- a. ZOO 4603C* Embryology/Develop
- a. ZOO 4753C* Comp Vert Histology
- a. ZOO 4910L* Res Exp in Zoo Env

5. Biology core courses (21 hours)
- BSC 2010C Genetics
- BSC 2011C Biology 2
- PCB 3023 Molec Cell Bio
- PCB 3044 Ecology
- PCB 3063 Genetics
- PCB 4683 Evolutionary Biology

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.