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
   - 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: ___ 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 course.
   - 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 2011C Biology 2 4
   - PCB 3023 Molec Cell Bio 3
   - PCB 3044 Ecology 3
   - PCB 3063 Genetics 3
   - PCB 4683 Evolutionary Biology 4

5A. Cognate Sciences Core (31-33 hours)
   - Chemistry Placement Test: CHM2040, CHM2041, or CHM2045
   - CHM 2045C (or CHM 2040 or 2041) 4/3
   - CHM 2046 3
   - CHM 2046L 1
   - CHM 2210 CHM 2205 3/5
   - CHM 2211 or CHM 3120 3/3
   - CHM 2211L CHM 3120L 2/2
   - PHY 2053C or PHY 2048C 4
   - PHY 2054C PHY 2049C 4

5B. Lab requirement- Two labs
   - Math Placement Test: MAT1033C, MAC1105, MAC1114, MAC 1140
   - MAC 2311 or MAC 2233 or MAC 2253 4
   - STA 2023 3

6. 22 hours of restricted electives are required, with following stipulations:
   - 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 offered by the Department of Biology (designated with an *). (to be satisfied with free electives or minor) ______ 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 Elective (3hr)
   - BOT 3015* Principles of Plant Science 3

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

   Group A
   - BOT 4922* Plant Science Capstone 3
   - BOT 4970H Honors Undergraduate Thesis 3

   Group B
   - BOT 4223C* Plant Anatomy 4
   - BOT 4303C* Plant Physiology 4
   - BOT 4503C* Plant Taxonomy 5
   - BOT 4713C* Directed Independent Research 4
   - BOT 4262L* Plant Microtechniques 2
   - BSC 4353* Bio Res. Meth & Exp Design 3

   Group C (Other Restricted Electives)
   - BOT 3802* Ethnobotany 3
   - BOT 3018C* Culinary Botany 3
   - BOT 4850* Medical Botany 4
   - BSC 3045* GIS for Botanists 3
   - BSC 4330* Invasive Biology 3
   - PCB 3354* Tropic Ecology & Cons. 3

   Additional Biology Electives: (5 hours)
   - a. ANT 3550C Primatology 3
   - BSC 4024 Medical Biochemistry 4
   - BSC 4053 Biochemistry I 3
   - BSC 4054 Biochemistry II 3
   - p. BOT 3018C* Culinary Botany 3
   - p. BOT 3802* Ethnobotany 3
   - p. BOT 4223C* Plant Anatomy 4
   - p. BOT 4303C* Plant Physiology 4
   - p. BOT 4713C* Plant Taxonomy 5
   - p. BOT 4282L* Plant Microtechniques 2
   - p. BOT 4434C* Gen Mycology 4
   - p. BOT 4503C* Plant Physiology 4
   - p. BOT 4713C* Plant Taxonomy 5
   - p. BSC 3052* Conservation Biol 3
   - p. BSC 4445C* Genomics Lab 4
   - p. BSC 4821* Biogeography 4
   - p. BOT 4850* Medicinal Botany 3
   - p. BSC 3312* Princ Marine Biol 3
   - p. BSC 3455* Bio Res. Meth & Exp Design 3
   - p. BSC 4312C* Adv Marine Biol 4
   - p. BSC 4330* Invasion Biology 3
   - p. BSC 4434C* Programming for Bio 3
   - p. BSC 4861L* Urban Ecology… 3
   - p. BSC 4927* Scientific Engagement 3
   - p. BSC 5258L* Trop Bio Research 3
   - a. ENY 3571* Honey Bee Bio& Beekeeping 3
   - a. ENY 4004C* General Entomology 4
   - MCB 3020C Gen Microbiology 5
   - OCE 3008* Oceanography 3
   - a. PIZ 2434* Zoo & Aquarium Mgt 3
   - PCB 3044L* Ecology Lab 4
   - PCB 3063L* Genetics Lab 1
   - PCB 3323 Immunology 3
   - PCB 3343L* Princ Field Ecology 4
   - PCB 3354* Tropec Ecology & Cons. 3
   - PCB 3355L* Tropical Marine Bio 2
   - PCB 3442* Aquatic Ecology 3
   - PCB 3700C Plant Physiology 4
   - PCB 4301C* Wetland Eco & Biogrochem. 4
   - PCB 4316C* Marine Ecology of Florida 4
   - PCB 4353* FL Natural History 3
   - PCB 4353L* FL Natural History Lab 1
   - PCB 4420* Disease Eco & Immunology 3
   - PCB 4415* Sensory Ecology 3
   - PCB 4514* Genetics 2
   - PCB 3522 Molec Bio 1
   - PCB 4524 Molec Bio 2
   - PCB 4575* Wildlife Genomics 3
   - PCB 4683L* Evol. Biol. Lab 1
   - PCB 4678* Evolution in Medicine 3
   - PCB 4684* Population Genetics 3
   - a. PCB 4723* Animal Physiology 4
   - BSC 5316* Marine Conservation 4
   - PCB 5326C* Ecology of FL 5
   - PCB 5435C* Marine Ecology of FL 4
   - PCB 5465* Models in Ecology 3
   - a. ZOO 3713C* Comp Vert Anat 5
   - ZOO 3733C Human Anatomy 4
   - a. ZOO 4205C* Bio and Eco Meta Inv 3
   - a. ZOO 4310C* Vet Eco and Eco 4
   - a. ZOO 4405C* Sea Turtle Internship 3
   - a. ZOO 4480* Mammalogy 3
   - a. ZOO 4480L* Mammalogy Lab 1
   - a. ZOO 4481* Animal Behavior 3
   - a. ZOO 4482C* Herpetology 4
   - a. ZOO 4603C* Embryology/Develop 5
   - a. ZOO 4735C* Comp Vert Histology 4
   - a. ZOO 4354* Ichthyology 3
   - a. ZOO 3930* Ornithology 3
   - a. ZOO 4910L* Res Exp in Zoo Env 3