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
   - 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
     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 2071C - Biology 4
   - BSC 2011C Biology 2 4
   - PCB 3023 Molec Cell Bio 3
   - PCB 3044 Ecology 3
   - PCB 3065 Genetics 3
   - PCB 4683 Evolutionary Biology 4

   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

5A. Cognate Sciences Core (31-33 hours)
   - CHM 2045C or CHM 2040 2041 4
   - CHM 2046 3
   - CHM 2046L 1
   - PCB 2211 PCB 2205 3/5
   - PCB 2211 or CHM 3120 3/1
   - PCB 2211L CHM 3120L 2/1
   - PHY 2053C or PHY 2048C 4
   - PHY 2054C or PHY 2049C 4

   Math Placement Test: MAT1033C, MAC1105C, MAC1114, MAC 1140, MAC 2311 or MAC 2233 or MAC 2253
   ___________ STA 2023 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 †

6. 22 hours of restricted electives are required, with following stipulations:
   - at least 22 hours of 4xxx level Biology courses
   - 6000 level courses may be taken by seniors with prior permission of
     Biology Faculty

   Required Electives (choose two of the following courses) (9-10 hrs)
   a. PCB 4723* Animal Physiology 4
   b. ZOO 3713C* Comp Vert Anat 5
   c. ZOO 4603* Embryology/Devlop 5

   Restricted Electives (5-6 hrs)
   a. BCH 4053 Biochemistry 1 3
   b. BCH 4054 Biochemistry 2 3
   c. BOT 4850* Medical Botany 3
   d. MCB 3020C Gen Microbiology 5
   e. PCB 3233 Immunology 3
   f. PCB 3703C Human Physiology 3
   g. PCB 4514* Genetics II 3
   h. PCB 4678* Evolution in Medicine 3
   i. PCB 4723* Animal Physiology 4
   j. ZOO 3713C* Comp Vert Anat 5
   k. ZOO 3733C Human Anatomy 4
   l. ZOO 4205C* Bio and Eco Meta Inv 4
   m. ZOO 4513* Animal Behavior 3
   n. ZOO 4603* Embryology/Devlop 5
   o. ZOO 4753C* Comp Vert Histology 4

   Additional Biology Electives: (7 hours)
   a. ANT 3550C Primatology 3

   Pre-Professional Biology Track
   Catalog Year: 2016-2019

   Advisor________________________ Date _______

   BCH 4024 Medical Biochemistry 4
   BCH 4053 Biochemistry 1 3
   BCH 4054 Biochemistry 2 3
   p. BOT 3015* Principles of Plant Science 3
   p. BOT 3016C† Culinary Botany 4
   p. BOT 3800† Ethnobotany 3
   p. BOT 4233C† Plant Anatomy 4
   p. BOT 4303C† Plant Kingdom 4
   p. COR 4282L† Plant Microtechniques 2
   BOT 4970H Honors Undergrad. Thesis 3
   BOT 4972* Plant Science Capstone 3
   p. BOT 4950C† Plant Physiology 4
   p. BOT 4530C† Plant Genomics and Biochem 4
   p. BOT 4653C† Biology of Fungi 5
   p. BOT 4713C† Plant Taxonomy 5
   BSC 3052* Conservation Biol 3
   BSC 4821* Biogeography 4
   p. BOT 4850* Medical Botany 4
   p. BOT 4861* Medicinal Botany 4
   BSC 3132* Princ Marine Biol 3
   BSC 3453* Bio Res. Meth & Exp Design 3
   BSC 4312C* Adv Marine Biol 3
   BSC 4330* Invasion Biology 3
   BSC 4456C* Programming for Bio 4
   BSC 4464C* Genomics Lab 3
   BSC 4861C* Urban Ecology… 3
   BSC 4910* Biology Education Research 3
   BSC 4927* Scientific Engagement 3
   BSC 4932* Scientific Writing 4
   BSC 5258L* Trob Bio Research 3
   BSC 5316* Marine Conservation 4
   a. ENY 3571† Hon. Bee Bio & Beekeeping 3
   a. ENY 4004C* General Entomology* 4
   MCB 3020C Gen Microbiology 5
   OCE 3008* Oceanography 4
   a. PAZ 4234* Zoo & Aquarium Mgt 3
   PCB 3044L* Ecology Lab 1
   PCB 3063L* Genetics Lab 1
   PCB 3233 Immunology 3
   PCB 3343L* Princ Field Ecology V
   PCB 3354* Troch Ecology & Cons. 3
   PCB 3355L* Tropical Marine Bio 2
   PCB 3442* Aquatic Ecology 3
   PCB 3701* Human Physiology 4
   PCB 4380C† Wetland Ecol & Bioecochem 3
   PCB 4316C† Marine Ecology of Florida 3
   PCB 4351* FL Eco, Nat Hist & Cons. 3
   PCB 4353L† FL Natural History Lab 1
   PCB 4402* Disease Eco & Immunology 3
   a. PCB 4415* Sensory Ecology 3
   a. PCB 4514† Genetics II 3
   a. PCB 3525 Molec Biol 1
   a. PCB 4524 Molec Biol 2 3
   a. PCB 4575* Wildlife Genomics 3
   a. PCB 4683L* Evol. Biology Lab 1
   a. PCB 4768* Evolution in Medicine 3
   a. PCB 4864* Population Genetics 3
   a. PCB 4723* Animal Physiology 4
   a. PCB 4923* GIS for Biologists 3
   a. PCB 5326C* Ecosystems of FL 5
   a. PCB 5435C* Marine Ecology of FL 1
   a. PCB 5485* Models in Ecology 3
   a. ZOO 3713C* Comp Vert Anat 5
   a. ZOO 3733C Human Anatomy 4
   a. ZOO 4205C* Bio and Eco Meta Inv 4
   a. ZOO 4310C* Human Anatomy 3
   a. ZOO 4480* Mammmalogy 3
   a. ZOO 4480L* Mammmalogy Lab 3
   a. ZOO 4513* Animal Behavior 3
   a. ZOO 4642C† Herpetology 4
   a. ZOO 4653C† Embryology/Devlop 5
   a. ZOO 4753C† Comp Vert Histology 4
   a. ZOO 4754* Ichthyology 3
   a. ZOO 4754* Ornithology 3
   a. ZOO 4910L† Res Exp in Zoo Env 3