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.

Name ______________________ Date _____________
UCFID ______________________

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
Cultural & Historical Foundations
- MAC 2311C - Calculus with Analytic Geometry I
- STA 2023 - Statistical Methods I
Mathematical Foundations
- MAC 2311C
Social Foundations
- BSC 2010C - Biology I Credit Hours: 4
- 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

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 (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 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

6. 22 hours of restricted electives are required, with following stipulations:
   - 12 hours 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 b) .
   - At least 10 of the 22 hours must be offered by the Department of Biology (designated with an *). of 10

   - Independent Study/Directed Research: May include a maximum of 4hrs towards restricted electives - (Completed with Biology Faculty)
   - 2000 level courses may be taken with seniors with permission of course instructor. You will be charged graduate level tuition.

   A. Core:
   - PCB 3044L - Ecology lab
   - PCB 4683L - Evolutionary Biology Lab

   B. Non-Core: designated with a

   - PHY 2053C (or +L) or PHY 2048C (or +L) ___________3
   - PHY 2054C (or +L) or PHY 2049C (or +L) ___________4

   Math Placement Test: MAT1033C, MAC1105C, MAC1114C, MAC 2311
   - MAC 2311 or MAC 2233 or MAC 2253 Calculus ___________4

   5A. Cognate Sciences Core (31-33 hours)
   - Chemistry Placement Test: CHM1025 Intro to Chemistry ___________2

   CHM 2045C Chemistry Fundamentals I ___________4
   CHM 2046 Chemistry Fundamentals II ___________3
   CHM 2046L Chemistry Fundamentals Lab ___________1
   CHM 2210 CHM 2205 ___________3
   CHM 2211 or CHM 3120 ___________3
   CHM 2211L CHM 3120L ___________2
   PHY 2053C (or +L) or PHY 2048C (or +L) ___________4
   PHY 2054C (or +L) or PHY 2049C (or +L) ___________4

   Math Placement Test: MAT1033C, MAC1105C, MAC1114C, MAC 1140
   - MAC 2311 or MAC 2233 or MAC 2253 Calculus ___________4

   STA 2023 Statistical Methods I ___________3

5B. Lab requirement- Two labs
   At least one of these labs must come from section A - Core.
   - PCB 3044L - Ecology lab
   - PCB 4683L - Evolutionary Biology Lab

   Required Electives (3hr)
   - BOT 3802* Ethnobotany ___________3
   - Additional Biology Electives (7 hours)

   a. ANT 3550C Primateology ___________3
   - BCH 4024 Medical Biochemistry ___________4
   - BCH 4053 Biochemistry I ___________3
   - BSC 4330* Medical Botany ___________3
   - BOT 3015* Principles of Plant Science ___________3
   - BOT 3018C* Botany ___________4
   - BOT 3802* Ethnobotany ___________3
   - BOT 4223C* Plant Anatomy ___________4

   p. BOT 4282C* Plant Microtechniques ___________4
   - BOT 4303C* Plant Kingdom ___________4
   - BOT 4430C* Biology of Fungi ___________4
   - BOT 4503C* Plant Physiology ___________4
   - BOT 4533C* Plant Genomics and Biochem ___________4
   - BOT 4713C* Plant Taxonomy ___________5
   - BOT 4850* Medical Botany ___________3
   - BOT 4922* Plant Science Capstone ___________2
   - BOT 4970H Honors Undergrad. Thesis ___________3
   - BSC 3052* Conservation Biol ___________3
   - BSC 3312* Princ Marine Biol ___________3
   - BSC 4821* Biogeography ___________4
   - BSC 3453* Bio Res. Meth & Exp Design ___________3
   - BSC 4310* Service Learning Marine Conserv ___________3
   - BSC 4312C* Adv Marine Biol ___________3
   - BSC 4330* Invasion Biology ___________3
   - BSC 4456C* Programming for Bio ___________3
   - BSC 4445C* Genomics Lab ___________4
   - BSC 4473C* Scientific Div ___________4
   - BSC 4861L* Urban Biology ___________3
   - BSC 4910C* Group Eff Applied Resear ___________4
   - BSC 4927* Scientific Engagement ___________3
   - BSC 5316* Marine Conservation ___________4
   - BSC 5258L* Trop Bio Research ___________3
   - ENY 3571* Honey Bee Bio & Beekeeping ___________3
   - ENY 4004C* General Entomology ___________4
   - MCB 3020C Gen Microbiology ___________5
   - OCE 3008* Oceanography ___________3
   - PCB 3343L* Princ Field Ecology ___________5
   - PCB 3355L* Tropical Marine Bio ___________2
   - PCB 3342* Aquatic Ecology ___________3
   - PCB 3703C Human Physiology ___________4
   - PCB 4031C* Wetland Ecos & Biogrochem. ___________4
   - PCB 4015C* Marine Ecology of Florida ___________3
   - PCB 4353* FL Eco., Nat Hist & Cons. ___________3
   - PCB 4353L* FL Ecology Lab ___________1
   - PCB 4402* Disease Eco & Immunology ___________3
   - PCB 4413* Sensory Ecology ___________3
   - PCB 4462* GIS for Biologists ___________3
   - PCB 4514* Genetics II ___________2
   - PCB 3522 Molec Biol 1 ___________4
   - PCB 4524 Molec Bio 2 ___________3
   - PCB 4575* Wildlife Genetics ___________3
   - PCB 4683L* Evol. Biology Lab ___________1
   - PCB 4678* Evolution in Medicine ___________3
   - PCB 4684* Population Genetics ___________3
   - a. PCB 4723* Animal Physiology ___________4
   - PCB 5326C* Ecosystems of FL ___________5
   - PCB 5433C* Marine Ecology of FL ___________3
   - PCB 5485* Models in Ecology ___________3
   - a. ZOO 3713* Trop Bio Research ___________3
   - ZOO 3713L* Conv Vert Anat Lab ___________4
   - ZOO 3733C Human Anatomy ___________4
   - a. ZOO 4205C* Invertebrate Biodiversity ___________4
   - a. ZOO 4310C* Vert Evo and Eco ___________4
   - a. ZOO 4405C* Sea Turtle Internship ___________3
   - a. ZOO 4480* Mammalogy ___________3
   - ZOO 4480L* Mammalogy Lab ___________1
   - a. ZOO 4513* Animal Behavior ___________3
   - a. ZOO 4462C* Herpetology ___________4
   - a. ZOO 4603C* Embryology/Develop ___________5
   - a. ZOO 4756C* Comp Vert Histology ___________4
   - a. ZOO 3454* Ichthyology ___________3
   - a. ZOO 4272* Ornithology ___________3
   - a. ZOO 4910L* Res Exp in Zoo Env ___________3