Fall 2024
General Biology B.S Track
Summer 2021 - Present

1. State General Education Core
   - Communication Foundation: ENC 1101
   - Mathematical Foundation: MAC1105C, MAC2311, 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
     - MAC 2311C - Calculus with Analytic Geometry I
   - Mathematical Foundations
     - MAC 2311C - Calculus with Analytic Geometry I
   - Social Foundations
     - STA 2023 - Statistical Methods I
   - 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
   ❖ 42 hours 3xxx-4xxx level - 35 Biology requires = 7 hours left (to be satisfied with free electives or minor) ____ of 7

4. Major Requirements
   ❖ A minimum of 2.0 in all UCF courses taken in common program prerequisites, Biology core, and upper division restricted courses.
   ❖ A minimum of a C (2.0) in all Biology offered Core Classes is required for graduation.
   ❖ Exit Exam- to be completed upon completion of Biology core courses
   ❖ 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
   - BSC 2011C Gen 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.

5A. Cognate Sciences Core (31-33 hours)
   - Chemistry Placement Test: CHM1025 Intro to Chemistry __
     - CHM 2045C Chemistry Fundamentals I ___
     - CHM 2046 Chemistry Fundamentals II ___
     - CHM 2046L Chemistry Fundamentals Lab ___
     - CHM 2210 CHM 2205 3/5
     - CHM 2211 or CHM 3120 3/3
     - CHM 2211L CHM 3120L 2/1
     - PHY 2053C (or +L) or PHY 2048C (or +L) 4/3+1
     - PHY 2054C (or +L) or PHY 2049C (or +L) 4/3+1
   - Math Placement Test: MAC1105 ___ MAC1114 ___ MAC1140 ___
     - MAC 2311 or MAC 2233 or MAC 2253 Calculus ___
     - STA 2023 Statistical Methods I ___

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:
   - 22 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 p) ___
     - At least 10 of the 22 hours must be courses 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)
     - 5000 level courses may be taken by seniors with prior
       permission of course instructor. You will be charged graduate
       level tuition.

6A. Restricted Electives (22 hrs)
   - Upper division restricted electives
     - a. ANT 3550C Primatology 3
     - b. BCH 4024 Medical Biochemistry 4
     - c. BCH 4053 Biochemistry 1 3
     - d. BCH 4054 Biochemistry 2 3
     - e. BCT 3018C Principles of Plant Science 3
     - f. BCT 3802* Ethnobotany 3
     - g. BCT 4223C Plant Anatomy 4
     - h. BCT 4282C Plant Microtechniques 4
     - i. BCT 4305C Plant Kingdom 4
     - j. BCT 4430C Botany of Fungi 4
     - k. BCT 4503C Plant Physiology 4
     - l. BCT 4530C Plant Genomics and Biochem. 4
     - m. BCT 4713C Plant Taxonomy 5
     - n. BCT 4850C Medicinal Botany 3
     - o. BCT 4922* Plant Science Capstone 3
     - p. BCT 4970H Honors Undergrad. Thesis 3

   - a. AN 3454 Ichthyology 3
   - b. AN 4205C Invertebrate Biodiversity 3
   - c. AN 4272* Animal Behavior 3
   - d. AN 4310C Vert Ecol and Eco 4
   - e. AN 4405C Sea Turtle Internship 3
   - f. AN 4462C Herpetology 4
   - g. AN 4480* Mammalogy 4
   - h. AN 4480L Marine Mammals 4
   - i. AN 4513* Animal Behavior 3
   - j. AN 4603C Embryology/Develop 3
   - k. AN 4756C* Comp Vet Histology 3
   - l. AN 4910L* Res Exp in Zoo Env 3

Advisor: __________________ Date: __________________
BSC 3052* Conservation Biol 3
BSC 3312* Princ Marine Biol 3
BSC 3453* Bio Res. Meth & Exp Design 3
BSC 4310* Service Learning Marine Conserv. 3
BSC 4312C* Adv Marine Biol 4
BSC 4330* Invasion Biology 3
BSC 4454C* Genomics Lab 3
BSC 4473C* Scientific Diving 4
BSC 4821* Biogeography 3
BSC 4861L* Urban Ecology 3
BSC 4910C* Group Eff Applied Resear 4
BSC 4927* Scientific Engagement 3
BSC 5258L* Crop Bio Research 3
BSC 5316* Marine Conservation 4
a. ENY 3571* Honey Bee Bio & Beekeepin 3
a. ENY 4004C* General Entomology 4
MCB 3020C Gen Microbiology 5
OCE 3008* Oceanography 3
PAZ 4234* Zool Aquaculture Mgt 1
PCB 3044L* Ecology Lab 1
PCB 3063L* Genetics Lab 1
PCB 3233 Immunology 3
PCB 3343L* Princ Field Ecology 7
PCB 3354* Tropical Ecology & Cons. 3
PCB 3355L* Tropical Marine Bio 3
PCB 3442* Aquatic Ecology 3
PCB 3522 Molec Bio I 3
PCB 3703C Human Physiology 4
PCB 4301C* Wetland Eco & Biogeochem. 4
PCB 4353* Fl Eco., Nat. Hist. & Cons. 4
PCB 4353L* Fl. Ecology Lab 4
PCB 4402* Disease Eco & Immunology 4
a. PCB 4413* Sensory Ecology 3
a. PCB 4462* GIS for Biologists 3
a. PCB 4514* Genetics II 3
a. PCB 4315C Marine Ecology of Florida 3
PCB 4524 Molec Bio 2 3
PCB 4575* Wildlife Genetics 3
PCB 4683L* EVOL Biol. Lab 3
PCB 4687* Evolution in Medicine 3
PCB 4684* Population Genetics 3
a. PCB 4723* Animal Physiology 4
PCB 5326C Ecosystems of FL 5
PCB 5435C Marine Ecology of FL 5
PCB 5485* Models in Ecology 3
a. ZOO 3713* Comp Vert Anat 4
a. ZOO 3713L* Comp Vert Anat Lab 4
ZOO 3733C Human Anatomy 3
a. ZOO 3454 Ichthyology 3
a. ZOO 4205C Invertebrate Biodiversity 3
a. ZOO 4272* Animal Behavior 3
a. ZOO 4310C Vert Ecol and Eco 4
a. ZOO 4405C Sea Turtle Internship 3
a. ZOO 4462C Herpetology 4
a. ZOO 4480* Mammalogy 4
ZOO 4480L* Mammalogy Lab 4
a. ZOO 4513* Animal Behavior 3
a. ZOO 4603C Embryology/Develop 3
a. ZOO 4756C* Comp Vet Histology 3
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Subject to change