

Name \_\_\_\_\_  
UCFID \_\_\_\_\_

Pre- Professional Biology Track  
Catalog Year: 2020-2021

Additional Biology Electives: (6-8 hours)

1. State General Education Core

- Communication Foundation: ENC 110
- Cultural Foundation: HUM2020, MUL2010, THE2000, PHI2010
- Mathematical Foundation: MAC1105C, MAC2311C, MGF1106, MGF1107, STA2023
- Social Foundation: ECO2013, POS2041, AMH2020, PSY2012, SYG2000, ANT2000
- 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

Mathematics

- MAC 2311C - Calculus with Analytic Geometry I

Statistics

- 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 courses
- ❖ Departmental Residency Requirement: \_\_\_\_\_ of 22
  - o 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: 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	_____	3/5
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 \_\_\_\_, 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.

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: \_\_\_\_\_ 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.

Required Electives Choose at least two from the following (9-10hr)

BCH 4053 Biochemistry I	_____	3
OR BCH 4024 Medical Biochemistry	_____	4
PCB 4514* Genetics II	_____	3
a PCB 4723* Animal Physiology	_____	4
a ZOO 3713C*† Comp Vert Anat	_____	5
a ZOO 4603C*† Embryology/Develop	_____	5

\*\*Classes that satisfy the Required Electives cannot duplicate towards this section. Any Required Electives taken in excess of 9-10hr will count here.\*\*

Restricted Electives (choose from following) (5-6 hrs)

BCH 4024 Medical Biochemistry	_____	4
BCH 4053 Biochemistry 1	_____	3
BCH 4054 Biochemistry 2	_____	3
p. BOT 4850* Medical Botany	_____	3
MCB 3020C Gen Microbiology	_____	5
PCB 3233 Immunology	_____	3
PCB 3522 Molec Bio I	_____	3
PCB 3703C Human Physiology	_____	4
PCB 4514* Genetics II	_____	3
PCB 4678* Evolution in Medicine	_____	3
a PCB 4723* Animal Physiology	_____	4
a ZOO 3713C*† Comp Vert Anat	_____	5
ZOO 3733C Human Anatomy	_____	4
a ZOO 4205C*† Bio and Eco Meta Inv	_____	4
a ZOO 4513* Animal Behavior	_____	3
a ZOO 4603C*† Embryology/Develop	_____	5
a. ZOO 4756C*† Comp Vert Histology	_____	4

Advised	Date	_____
a. ANT 3550C Primatology	_____	3
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 3018C*† Culinary Botany	_____	4
p. BOT 3802* Ethnobotany	_____	3
p. BOT 4223C*† Plant Anatomy	_____	4
BOT 4282C*† Plant Microtechniques	_____	4
p. BOT 4303C*† Plant Kingdom	_____	4
p. BOT 4430C*† Biology of Fungi	_____	4
p. BOT 4503C*† Plant Physiology	_____	4
p. BOT 4530C*† Plant Genomics and Biochem	_____	4
p. BOT 4713C*† Plant Taxonomy	_____	5
p. BOT 4850* Medical Botany	_____	3
BOT 4970H Honors Undergrad. Thesis	_____	3
BOT 4922* Plant Science Capstone	_____	2
BSC 3052* Conservation Biol	_____	3
BSC 3312* Princ Marine Biol	_____	3
BSC 4312C*† Adv Marine Biol	_____	4
BSC 3453* Bio Res. Meth & Exp Design	_____	3
BSC 4330* Invasion Biology	_____	3
BSC 4456C* Programming for Bio	_____	3
BSC 4445C*† Genomics Lab	_____	4
BSC 4473C* Scientific Diving	_____	4
BSC 4821* Biogeography	_____	4
BSC 4861L* Urban Ecology...	_____	3
BSC 4927* Scientific Engagement	_____	3
BSC 5258L* Trop Bio Research	_____	3
BSC 5316C* Marine Conservation	_____	4
a. ENY 3571*† Honey Bee Bio & Beekeeping	_____	3
a. ENY 4004C*† General Entomology	_____	4
MCB 3020C Gen Microbiology	_____	5
OCE 3008* Oceanography	_____	3
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* Tropic Ecology & Cons.	_____	3
PCB 3355L* Tropical Marine Bio	_____	2
PCB 3442* Aquatic Ecology	_____	3
PCB 3703C Human Physiology	_____	4
PCB 4301C*† Wetland Eco & Biogeochem.	_____	4
PCB 4315C*† 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
a. PCB 4413* Sensory Ecology	_____	3
PCB 4514* Genetics II	_____	3
PCB 3522 Molec Bio I	_____	3
PCB 4462* GIS for Biologists	_____	3
PCB 4524 Molec Bio 2	_____	3
PCB 4575* Wildlife Genomics	_____	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 5435C* Marine Ecology of Fl	_____	4
PCB 5485* Models in Ecology	_____	3
a ZOO 3713C*† Comp Vert Anat	_____	5
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	_____	4
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

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.