

Name _____
UCFID _____

Pre-Professional Biology Track
Catalog Year: Fall 2016 – Spring 2020

Advisor _____	Date _____	
a. ANT 3550C	Primateology	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
p. BOT 4303C*†	Plant Kingdom	4
BOT 4282C*†	Plant Microtechniques	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
BOT 4970H	Honors Undergrad. Thesis	3
BOT 4922*	Plant Science Capstone	2
BSC 3052*	Conservation Biol	3
BSC 4821*	Biogeography	4
p. BOT 4850*	Medical Botany	3
BSC 3312*	Princ Marine Biol	3
BSC 3453*	Bio Res. Meth & Exp Design	3
BSC 4312C*†	Adv Marine Biol	4
BSC 4330*	Invasion Biology	3
BSC 4456C*	Programming for Bio	3
BSC 4445C*†	Genomics Lab	4
BSC 4473C*	Scientific Diving	4
BSC 4861L*	Urban Ecology...	3
BSC 4927*	Scientific Engagement	3
BSC 4932*	Service Learning Marine Conservation	3
BSC 5258L*	Trop Bio Research	3
BSC 5316*	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 4462*	GIS for Biologists	3
PCB 4514*	Genetics II	3
PCB 3522	Molec Bio I	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

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: MAT1033C, 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 two of the following courses) (9-10 hrs)

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 (5-6 hrs)

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 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

Additional Biology Electives: (7 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

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