

Name _____
UCFID _____

Plant Science Track
Catalog Year: Summer 2018 - Spring 2020

Advisor _____ Date _____

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.

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
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STA 2023 Statistical Methods I	_____ 3
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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 Elective (3hr)

p. BOT 3015*	Principles of Plant Science	_____ 3
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Restricted Electives (choose at least one course from Group A and two from Group B) Remaining credits can be from any group (14 hrs)

Group A

BOT 4922*	Plant Science Capstone	_____ 2
BOT 4970H	Honors Undergraduate Thesis	_____ 3

Group B

p. BOT 4223C*†	Plant Anatomy	_____ 4
BOT 4282C*†	Plant Microtechniques	_____ 4
p. BOT 4303C*†	Plant Kingdom	_____ 4
p. BOT 4503C*†	Plant Physiology	_____ 4
p. BOT 4713C*†	Plant Taxonomy	_____ 5
BOT 4912	Directed Independent Research	_____ 4
BSC 3453*	Bio Res. Meth & Exp Design	_____ 3

Group C (Other Restricted Electives)

p. BOT 3018C*†	Culinary Botany	_____ 3
p. BOT 3802*	Ethnobotany	_____ 3
p. BOT 4850*	Medical Botany	_____ 4
BSC 4330*	Invasion Biology	_____ 3
PCB 3354*	Tropic Ecology & Cons.	_____ 3
PCB 4462*	GIS for Biologists	_____ 3

Additional Biology Electives: (5 hours)

a. ANT 3550C	Primatology	_____ 3
BCH 4024	Medical Biochemistry	_____ 4
BCH 4053	Biochemistry 1	_____ 3
BCH 4054	Biochemistry 2	_____ 3
p. BOT 3018C*†	Culinary Botany	_____ 3
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 Biochemistry	_____ 4
p. BOT 4713C*†	Plant Taxonomy	_____ 5
p. BOT 4850*	Medical Botany	_____ 3
BSC 3052*	Conservation Biol	_____ 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 4445C*†	Genomics Lab	_____ 4
BSC 4456C*	Programming for Bio	_____ 3
BSC 4473C*	Scientific Diving	_____ 4
BSC 4821*	Biogeography	_____ 4
BSC 4861L*	Urban Ecology...	_____ 3
BSC 4927*	Scientific Engagement	_____ 3
BSC 4932*	Service Learning Marine Conservation	_____ 3
BSC 5258L*	Trop Bio Research	_____ 3
a. ENY 3571C*†	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	_____ 5
PCB 3354*	Tropic Ecology & Cons.	_____ 3
PCB 3355L*	Tropical Marine Bio	_____ 2
PCB 3442*	Aquatic Ecology	_____ 3
PCB 3522	Molec Bio I	_____ 3
PCB 3703C	Human Physiology	_____ 4
PCB 4301C*†	Wetland Eco & Biogeochem.	_____ 4
PCB 4315C*†	Marine Ecology of Florida	_____ 4
PCB 4353*	FL Eco., Nat. His. & 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 4524	Molec Bio 2	_____ 3
PCB 4575*	Wildlife Genomics	_____ 3
PCB 4678*	Evolution in Medicine	_____ 3
PCB 4683L*	Evol. Biology Lab	_____ 1
PCB 4684*	Population Genetics	_____ 3
a. PCB 4723*	Animal Physiology	_____ 4
BSC 5316*	Marine Conservation	_____ 4
PCB 5326C*	Ecosystems of Fl	_____ 5
PCB 5435C*	Marine Ecology of Fl	_____ 4
PCB 5485*	Models in Ecology	_____ 3
a. ZOO 3454*	Ichthyology	_____ 3
a. ZOO 3713C*†	Comp Vert Anat	_____ 5
ZOO 3733C	Human Anatomy	_____ 4
a. ZOO 4205C*†	Invertebrate Biodiversity	_____ 4
a. ZOO 4272*	Ornithology	_____ 3
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 4910L*†	Res Exp in Zoo Env	_____ 3