

Summer 2025

General Biology B.S Track
Summer 2021 - Present

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.

6A. Restricted Electives (22 hrs)

Upper division restricted electives

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
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 4922*	Plant Science Capstone	____	2
BOT 4970H	Honors Undergrad. Thesis	____	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 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 4910C*	Group Effort Applied Resear	____ 4
BSC 4927*	Scientific Engagement	____ 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 3522	Molec Bio I	____ 3
PCB 3703C	Human Physiology	____ 4
PCB 4301C*†	Wetland Eco & Biogeochem.	____ 4
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 4315C*†	Marine Ecology of Florida	____ 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 3713*	Comp Vert Anat	____ 4
ZOO 3713L*†	Comp Vert Anat Lab	____ 1
ZOO 3733C	Human Anatomy	____ 4
a ZOO 3454*	Ichthyology	____ 3
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 4462C*†	Herpetology	____ 4
a ZOO 4480*	Mammalogy	____ 4
ZOO 4480L*†	Mammalogy Lab	____ 1
a ZOO 4513*	Animal Behavior	____ 3
a ZOO 4603C*†	Embryology/Develop	____ 5
a. ZOO 4756C*†	Comp Vert Histology	____ 4
a. ZOO 4910L*†	Res Exp in Zoo Env	____ 3

Offered

Updated 7/7/22

Name _____
UCFID _____

1. State General Education Core

- Communication Foundation: ENC 1101
- 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
- ❖ 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 electives.
- ❖ 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
- ❖ 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.

Subject to change