

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

Road Map for BS in Biology  
Pre-2016

Advisor \_\_\_\_\_ Date \_\_\_\_\_

**1. 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 Credit Hours: 4
  - CHM 2045C - Chemistry Fundamentals I

**Sequence Checklist:**

*Math Placement Test:* MAC1105\_\_\_\_, MAC1140\_\_\_\_, MAC 1114\_\_\_\_,  
*Chemistry Placement Test:* CHM2040\_\_\_\_, CHM2041\_\_\_\_, or CHM2045\_\_\_\_

II. Departmental Residency Requirement: \_\_\_\_\_ of 22

22 hours of regularly scheduled upper division courses must be taken in the UCF Biology Department.

III. 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

IV. 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 elective or minor) \_\_\_\_\_ of 13

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.

**2. Biology core courses (21 hours)**

a. 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
b. Cognate Sciences Core (31-33 hours)			
CHM 2045C	Chemistry Fund. I	_____	4
CHM 2046	Chemistry Fund. II	_____	3
CHM 2046L	Chemistry 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)	PHY 2049C(or +L)	_____	4/3+1
MAC 2311 or MAC 2233 or MAC 2253		_____	4
STA 2023	Statistical Methods I	_____	3

**3. 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.

**Form and Function**

BCH 4024	Medical Biochemistry	_____	4
BCH 4053	Biochemistry 1	_____	3
BCH 4054	Biochemistry 2	_____	3
BOT 4282C*	Plant Microtechniques	_____	4
p. BOT 4223C*	Plant Anatomy	_____	4
p. BOT 4303C*	Plant Kingdom	_____	4
p. BOT 4503C*	Plant Physiology	_____	4
p. BOT 4530C*†	Plant Genomics and Biochem	_____	4
BSC 4445C*	Genomics Lab	_____	4
PCB 3063L*	Genetics Lab	_____	1
PCB 3703C	Human Physiology	_____	4
PCB 3233	Immunology	_____	3
PCB 4514*	Genetics II	_____	3
PCB 3522	Molec Bio I	_____	3
PCB 4524	Molec Bio 2	_____	3
PCB 4678*	Evolution in Medicine	_____	3
PCB 4683L*	Evol. Biology Lab	_____	1
PCB 4684*	Population Genetics	_____	3
a. PCB 4723*	Animal Physiology	_____	4
a. ZOO 3713C*	Comp Vert Anat	_____	5
ZOO 3733C	Human Anatomy	_____	4
a. ZOO 4603C*	Embryology/Develop	_____	5
a. ZOO 4756C*	Comp Vert Histology	_____	4

**Environmental**

p. BOT 3015*	Principles of Plant Science	_____	3
p. BOT 3018C*	Culinary Botany	_____	4
p. BOT 3802*	Ethnobotany	_____	3
BOT 4922*	Plant Science Capstone	_____	2
p. BOT 4850*	Medical Botany	_____	3
BOT 4970H	Honors Undergrad. Thesis	_____	3
BSC 3052*	Conservation Biol	_____	3
BSC 3312*	Princ Marine Biol	_____	3
BSC 4312C*	Adv Marine Biol	_____	4
BSC 4330*	Invasion Biology	_____	3
BSC 3453*	Bio Res. Meth & Exp Design	_____	3
BSC 4456C*	Programming for Bio	_____	3
BSC 4473C*	Scientific Diving	_____	4
BSC 4861L*	Urban Ecology...	_____	3
BSC 4927*	Scientific Engagement	_____	3
BSC 5258L*	Trop Bio Research	_____	3
BSC 4821*	Biogeography	_____	4
BSC 5316*	Marine Conservation	_____	4
a. ENY 3571*	Honey Bee Bio& Beekeeping	_____	3
OCE 3008*	Oceanography	_____	3
a. PAZ 4234*	Zoo& Aquarium Mgt	_____	3
PCB 3044L*	Ecology Lab	_____	1
PCB 3343L*	Princ Field Ecology	_____	5
PCB 3354*	Tropic Ecology & Cons.	_____	3
PCB 3355C*	Tropical Marine Bio	_____	2
PCB 3442*	Aquatic Ecology	_____	3
PCB 4301C*	Wetland Eco & Biogeochem.	_____	4
PCB 4315C*	Marine Ecology of Florida	_____	4
PCB 4353*	FL Eco., Nat Hist & Cons.	_____	3
PCB 4353L*	FL Ecology Lab	_____	1
a. PCB 4413*	Sensory Ecology	_____	3
PCB 4402*	Disease Eco & Immunology	_____	3
PCB 4462*	GIS for Biologists	_____	3
PCB 4575*	Wildlife Genomics	_____	3
PCB 5326C*	Ecosystems of Fl	_____	5
PCB 5435C*	Marine Ecology of Fl	_____	4
PCB 5485*	Models in Ecology	_____	3
a. ZOO 4405C*	Sea Turtle Internship	_____	3
a. ZOO 4513*	Animal Behavior	_____	3
a. ZOO 4910L*	Res Exp in Zoo Env	_____	3

**Systematic**

a. ANT 3550C	Primateology	_____	3
p. BOT 4430C*†	Biology of Fungi	_____	4
p. BOT 4713C*	Plant Taxonomy	_____	5
a. ENY 4004C*	General Entomology	_____	4
MCB 3020C	Gen Microbiology	_____	5
a. ZOO 4205C*	Invertebrate Biodiversity	_____	4
a. ZOO 4310C*	Vert Evo and Eco	_____	4
a. ZOO 4480*	Mammalogy	_____	4
ZOO 4480L*	Mammalogy Lab	_____	1
a. ZOO 4462C*	Herpetology	_____	4
a. ZOO 3454*	Ichthyology	_____	3
a. ZOO 4272*	Ornithology	_____	3