5A. Cognate Sciences Core (31-33 hours)

Chemistry Placement Test: CHM2040+, CHM2041+, or CHM2045+

CHM 2045C (or CHM 2040__2041__) 4/3
CHM 2046
CHM 2046L

CHM 2210 CHM 3120
CHM 2211 or CHM 2205
CHM 2211L CHM 3120L

PHY 2053C or PHY 2048 & L 4
PHY 2054C PHY 2049 & L

Math Placement Test: MAC1105__, MAC1114__, MAC 1140__
MAC 2311 4

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: designed with ↑

6. 22 hours of restricted electives are required, with following stipulations:
   - of 22 hours
   - 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 *).
   - 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 (3hrs)
p. BOT 3802* - Ethnobotany 3

Restricted Electives (choose from following) (12 hrs)
p. BOT 3018C++ - Botany 3
p. BOT 4850* - Medicinal Botany 3
p. BOT 4223C++ - Plant Anatomy 4
p. BOT 4503C++ - Plant Physiology 4
p. BOT 4713C++ - Plant Taxonomy 5

BSC 4330* - Invasion Biology 3
PCB 3354* - Tropic Ecology & Cons. 3

Additional Biology Electives (7 hours)
a. ANT 3550 - Primatology 3
   - BCH 4053 - Biochemistry 3
   - BCH 4054 - Biochemistry 2
   - BOT 3015* - Principles of Plant Science 3
   - BOT 3018C++ - Botany 3
   - BOT 3802* - Ethnobotany 3

Advisory: Date

Name: UCFID

1. State General Education Core
   - Communication Foundation: ENC 110
   - Mathematical Foundation: MAC1105C, MAC2311C, MGF1106, MGF1107, STA2023
   - Science Foundation: CHM 2045C, BSC 2010C

2. General Education Program (36 Hours)

Communications Foundations
1. ENC 1101
2. ENC 1102
3. SPC 1603, SPC 1608, COM 1000

Cultural & Historic Foundations
4. EUH 2000 or AMH 2010 or HUM 2210 or WOH2012
5. ARH 2050, ARH 2051, MUL 2010, PHI 2010, LIT 2110, LIT 2120, THE2000, FIL 1000 or REL2300

6. One additional course from Group 4 or 5

(Math can be the sequential to the above course)

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
   - ___ hours of regularly scheduled upper division courses must be taken in the UCF Biology Major 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

Plant Science Track
Catalog Year: 2016-2017

p. BOT 4223C++ - Plant Anatomy 4
p. BOT 4303C++ - Plant Kingdom 5
p. BOT 4282L++ - Plant Microtechniques 2
p. BOT 4927* - Plant Science Capstone 2
p. BOT 4434C* - Gen Microbiology 4
p. BOT 4503C++ - Plant Physiology 4
p. BOT 4713C++ - Plant Taxonomy 5
p. BSC 3052* - Conservation Biol 3
p. BSC 4821* - Biogeography 4
p. BOT 4850* - Medicinal Botany 3
p. BSC 3312* - Princ Marine Biol 3
p. BSC 3453* - Bio Res. Meth & Exp Design 3
p. BSC 4312C++ - Adv Marine Biol 4
p. BSC 4330* - Invasion Biology 3
p. BSC 4445C* - Genomics Lab 4
p. BSC 4861L* - Urban Ecology… 3
p. BSC 5316* - Marine Conservation 4
p. BSC 5258L* - Trop Bio Research 3
a. ENY 3571 - Honey Bee Bio & Beekeeping 3
a. ENY 4004C++ - General Entomology 4
MCB 3020C - Gen Microbiology 5
OCE 3008* - Oceanography 3
p. PAS 2434 - Zoo & Aquarium Mgt 3
p. PCB 3044L* - Ecology Lab 1
p. PCB 3063L* - Genetics Lab 3
p. PCB 3233 - Immunology 3
p. PCB 3343L* - Princ Field Ecology 3
p. PCB 3354* - Tropic Ecology & Cons. 3
p. PCB 3355L* - Tropical Marine Bio 2
p. PCB 3342* - Aquatic Ecology 3
p. PCB 3703C* - Human Physiology 3
p. PCB 4301C++ - Wetland Eco & Biogeochem. 3
p. PCB 4353* - FL Natural History 3
p. PCB 4402* - Disease Eco & Immunology 3
p. PCB 4514* - Genetics 2 3
p. PCB 4522 - Molec Bio 1 3
p. PCB 4524 - Molec Bio 2 3
p. PCB 4575* - Wildlife Genomics 3
p. PCB 4683L* - Evol. Biol Lab 1
p. PCB 4678* - Evolution in Medicine 3
p. PCB 4684* - Population Genetics 3
a. PCB 4723* - Animal Physiology 4
a. PCB 5326C* - Ecosystems of FL 5
a. PCB 5435C* - Marine Ecology of FL 4
a. PCB 5485* - Models in Ecology 3
a. ZOO 3713C++ - Comp Vert Anat 5
a. ZOO 3733C - Human Anatomy 4
a. ZOO 4205C++ - Bio and Eco Meta Inv 4
a. ZOO 4310C++ - Vert Evo and Eco Meta Inv 4
a. ZOO 4480* - Mammalogy 3
a. ZOO 4480L++ - Mammalogy Lab 1
a. ZOO 4513* - Animal Behavior 3
a. ZOO 4462C++ - Herpetology 4
a. ZOO 4605C++ - Embryology/Develop 5
a. ZOO 4756C++ - Comp Vert Histology 4
a. ZOO 4354* - Ichthyology 3
a. ZOO 3xxx* - Ornithology 3
a. ZOO 4910L++ - Res Exp in Zoo Env 3