5A. Cognate Sciences Core (31-33 hours)
Chemistry Placement Test: CHM 1025 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  2/1

PHY 2053C (or +L) or PHY 2048C (or +L)  4/3+
PHY 2054C (or +L) or PHY 2049C (or +L)  4/3+

Math Placement Test: MAT1033C, MAC1105, MAC1114, MAC 1140, 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:
P+PCB 3044L - Ecology lab
P+PCB 3063L - Genetics lab
P+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 with 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

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 4941 Arboretum Garden Internship  3
BOT 4970H Honors Undergraduate Thesis  3
BSC 4941 Arboretum Project Internship  3

Group B
p. BOT 4223C** Plant Anatomy  4
p. BOT 4282C* Plant Microtechniques  4
p. BOT 4303C* Plant Physiology  4
p. BOT 4530C* Plant Genetics  4
p. BOT 4530CL* Plant Genetics and Biochemistry  4
p. BOT 4713C** Plant Taxonomy  5
p. 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 4430C** Biology of Fungi  4
p. BOT 4850 Medical Botany  4
BSC 4330* Invasion Biology  3
a. ENY 3571* Honey Bee Book & Beekeeping  3
PCB 3354* Tropic Ecology & Cons.  3
PCB 4462* GIS for Biologists  3