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  _3_
CHM 2210 CHM 2205  3/5
CHM 2211 or CHM 3120  3/5
CHM 2211L CHM 3120L  2/1

PHY 2053C (or +L) or PHY 2045C (or +L)  4/3+1
PHY 2054C (or +L) or PHY 2045C (or +L)  4/3+1

Math Placement Test: MAT1033C, 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:
2 PCB 3044L - Ecology lab
2 PCB 3063L - Genetics lab
2 PCB 4683L - Evolutionary Biology Lab

B - Non-Core: designated with 

6. 22 hours of restricted electives are required, with following stipulations:
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 *), or ___.
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 (choose one of the following) (3-4 hours)

a. PCB 4723* Animal Physiology
b. ZOO 4513* Animal Behavior

**Classes that satisfy the Required Electives cannot duplicate towards the Section. If you take both Required Electives, one will count here.**

Restricted Electives (choose from the following) (11-12 hours)

a. PCB 4723* Animal Physiology
b. ZOO 4513* Animal Behavior
a. ANT 3550C Primatology
a. ENY 4004C General Entomology
a. ZOO 4234* Zoo & Aquarium Mgmt
a. ZOO 3454* Ichthyology
a. ZOO 3713* Comp Vert Anat
a. ZOO 3713L* Comp Vert Anat Lab
a. ZOO 4272* Ornithology
a. ZOO 4205C Invertebrate Biodiversity
a. ZOO 4310C* Vert Evo and Eco
a. ZOO 4405C* Sea Turtle Internship
a. ZOO 4462C* Herpetology
a. ZOO 4480* Mammalogy
a. ZOO 4480L* Mammalogy Lab
a. ZOO 4603C* Embryology/Development
a. ZOO 4756C* Comp Vert Histology
a. ZOO 4910L* Res Exp in Zoo Env

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.