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: MAT1033C, MAC1105C, MAC1114C, MAC 1140  
   4 
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.  
   6 
A - Core: 
   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 **). 
   Independent Study/Directed Research: May include a maximum of 4hrs 
   towards restricted electives.- (Completed with Biology Faculty)  
   Required Courses (one of the following) (3-4 hours)  
   a PCB 4723* Animal Physiology  
   a ZOO 4513** Animal Behavior  
   **Classes that satisfy the Required Electives cannot duplicate towards this 
   section. If you take both Required Electives, one will count here.**  

Restricted Electives (choose from the following) (11-12 hrs)  
   BSC 4821* Biogeochemistry  
   PCB 4402* Disease Eco & Immunology  
   PCB 4575* Wildlife Genetics  
   a PCB 4723* Animal Physiology  
   a ZOO 4513** Animal Behavior  
   a ANT 3550C Primateology  
   a ENV 4004C+ General Entomology  
   a PAZ 4234* Zoo & Aquarium Mgt  
   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 Ecol 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/Develop  
   a ZOO 4756C++ Comp Vert Histology  
   a ZOO 4910L++ Res Exp in Zoo Envi  

Additional Biology Electives: (6-8 hours)  
   a ANT 3550C Primateology  
   a CHB 4024 Medical Biochemistry  

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.