Bachelor of Science (BS)  
Degree Code 142*  
ECOLOGY, EVOLUTION, & ENVIRONMENTAL BIOLOGY CONCENTRATION

I. GENERAL EDUCATION CURRICULUM

Chemistry 1101-1110 and 1102-1120 fulfill the Science Inquiry. Math 1110 fulfills the Quantitative Literacy requirement.

II. BIOLOGY MAJOR REQUIREMENTS (not including 12 s.h. counted in Area I, above)

A. Biology Core Requirements: 8 semester hours (must be completed before taking any other biology courses)
   BIO 1801 ____ (4) Biological Concepts I (Co: CHE 1101)  
   AND  
   BIO 1802 ____ (4) Biological Concepts II (Pre: 1801 w/grade “C”)

B. Additional Required Biology Courses: 13 semester hours (Pre: BIO 1801 & 1802 required for all additional BIO courses)
   BIO 2012 ____ (3) Introduction to Evolutionary Biology  
   AND  
   BIO 2400 ____ (3) Genetics (Pre: CHE 1102, MAT 1025)  
   OR  
   BIO 2700 ____ (3) Human Genetics (Pre: CHE 1102, MAT 1025)
   and one of the following Senior Capstones: (Pre: Senior Standing; WID)
   BIO 4501 ____ (3) Independent Research [CAP]  
   BIO 4910 ____ (3) Capstone Internship in Biology [CAP]  
   BIO 4700 ____ (3) Seminar in Biological Science [CAP] (Pre: BIO 4518 w/min B)
   BIO 4519 ____ (3) Bio Honors Thesis [CAP] (Pre: BIO 4518 w/min B)

C. Ecology, Evolution, Environmental Concentration: 38 hours

Courses may only meet one requirement. If a course is chosen in one area, it may not be used in another.

***Student MUST choose one Junior Writing [WID] course. All WID Pre: RC 2001***

1. Evolution or Ecology or Environmental: Choose three courses (9-12 s.h.) from the following
   BIO 3312 ____ (3) Environmental Studies [WID]  
   BIO 3313 ____ (4) Global Change Ecology [WID]  
   BIO 3314 ____ (4) Comparative Vertebrate Zoo [WID]  
   BIO 3315 ____ (3) Conservation Biology [WID]  
   BIO 3320 ____ (3) Air Pollution Effects on Plants & People (Pre: Jr standing)

2. Biodiversity: Choose two courses (6-8 s.h.) from the following
   BIO 2000 ____ (4) Introduction to Botany  
   BIO 3304 ____ (4) Systematic Botany (Pre: BIO 2000)  
   BIO 3314 ____ (4) Comparative Vertebrate Zoo [WID]  
   BIO 3315 ____ (3) Conservation Biology [WID]  
   BIO 4551 ____ (4) Ornithology (Pre: Sr standing)  
   BIO 4552 ____ (4) Entomology (Pre: Sr standing)  

3. Cellular/Subcellular or Anatomy & Physiology: Choose one course (3-4 s.h.) from the following
   BIO 2600 ____ (3) Cell Biology (Pre: CHE 1102)  
   BIO 3301 ____ (4) Human System Physiology [WID] (Pre: CHE 2201/2101)  
   BIO 3308 ____ (4) Microbiology (Pre: BIO 2400/2600/2700; CHE 1102 & 1120)  
   BIO 3800 ____ (4) Molecular Bio [WID] (Pre: CHE 2201/2101)

4. Other Sciences: (14-20 s.h.) Courses from BIO, CHE, PHY, GLY or courses listed below may be chosen to bring total in AREA II.C. to 38 s.h.
   ANT 222 ____ (3) The Living Primates  
   ANT 2230 ____ (3) Biological Anthropology  
   ANT 3200 ____ (3) Zooarchaeology (Pre: ANT 2221)  
   ANT 3220 ____ (3) Human Biological Variation (Pre: RC 2001)  
   ANT 3320 ____ (3) Primatological Field Methods  
   ANT 3350 ____ (3) Primate Behavior and Ecology  
   ANT 4350 ____ (3) Human Reproduction Evolutionary Perspective  
   ANT 4360 ____ (3) Primate Conservation  
   GHY 1010 ____ (3) Intro to Physical Geography  
   GY 2310 (3) Cartographic Design & Analysis  
   GYH/PLN 2812 ____ (3) Geospatial Data & Technology  
   GY 3100 ____ (3) Weather & Climate (Pre: GY 1010 or 1011)  
   GY 3110 ____ (3) Ecoregions & Dynamic Landforms  
   GY 3812 ____ (3) Introduction to GIS (Pre: GY 2310, 2812)  
   GY 4812 ____ (3) Advanced GIS (Pre: GY 3812; Sr. standing)  
   GY 4814 ____ (3) Principles of GeoComputation (Pre: GY 3812; Sr stdg)  
   GY 4820 ____ (3) Geographical Hydrology (Pre: GY 1010, 3100, 3110; Sr stdg)  
   SD 3100 ____ (3) Principles of Agroecology

D. Required Cognate Courses: 19 semester hours

Chemistry
   CHE 1101/1110 ____ (4) Intro Chemistry I & lab (Pre: MAT 1020 or higher)
   CHE 1102/1120 ____ (4) Intro Chemistry II & lab (Pre: CHE 1101 & 1110; MAT 1020 or higher)
   CHE 2101/2102 ____ (4) Fundamentals of Organic Chem & Lab (Pre: CHE 1102 & 1120)

Mathematics
   MAT 1110 ____ (4) Calc w/Analytic Geometry I (Pre: MAT 1025 w/C-)
   STT 2810 ____ (3) Intro to Statistics (Pre: MAT 1010 or higher)

III. MINOR (optional)

IV. ELECTIVES (taken to a minimum of 122 hours for the degree)

2 semester hours of free electives must be outside the major discipline

2017-2018