

East Central University
BIOLOGY- ECOLOGY Conc.
Major Code=004B / 2024-2025 Academic Catalog

Student Name: _____	Student ID # _____
30 hours at ECU completed	Advisor: _____
60 hours at Sr college completed	
40 hours upper level completed	OSRHE Computer Proficiency Requirement met

Requirements	Hours	Hours
<i>Courses highlighted in blue are general education courses.</i>		
I. General Education	40	III. Required Related Work 26-28
<i>A maximum of 12 hours may be counted in both the major/related work and general education.</i>		CHEM 1114 General Chemistry I
		CHEM 1214 General Chemistry II
		CHEM 3114 Organic Chemistry I
		MATH 1513 College Algebra † OR
		MATH 2825 Calculus and Analytic Geometry I
		PHYS 1114 General Physics I
		PHYS 1214 General Physics II
		<i>Choose one of the following:</i> 3
		EHS 3703 Biostatistics
		MATH 1223 Intro. To Probability and Statistics
		PSYCH 3833 Behavioral Science Statistics
		SOC 3833 Stats for Social Sciences
II. Major in Biology: Ecology	57	
A. Required in Biology Core	20	
BIOL 1114 General Biology		
BIOL 1214 General Botany		
BIOL 1314 General Zoology		
BIOL 3434 Genetics		
BIOL 3514 General Physiology OR		
BIOL 3634 Human Physiology		
B. Required in Ecology Concentration	21	
BIOL 2002 Intro. Research Experience		
BIOL 3245 Comparative Vertebrate Anatomy		
BIOL 3934 Limnology		
BIOL 4123 Evolution		
BIOL 4323 Experimental Design in Biol. Science		
BIOL 4414 General Ecology		
BIOL 4881 Senior Seminar		
C. Required Electives	16	
16 hrs elective courses in biology with minimum of 12hrs in 3000-4000 level courses (NOT BIOL 4473, 4713)		
V. Total Hours		120
VI. Special Requirements		
Teachers or methods courses do not count in this major		

† With department approval, students may omit MATH 1513 and begin with MATH 2825.