

East Central University
BIOLOGY- ECOLOGY Conc.
Major Code=004B / UG25 Proposed

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
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Courses highlighted in blue are general education courses.

I. General Education	40
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A maximum of 12 hours may be counted in both the major/related work and general education.

II. Major in Biology: Ecology	48
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A. Required in Biology Core	19
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BIOL 1114	General Biology I
BIOL 1134	General Biology II
BIOL 3434	Genetics
BIOL 3514	General Physiology OR
BIOL 3634	Human Physiology
BIOL 4883	Senior Seminar

B. Required in Ecology Concentration	13
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BIOL 3703	Biostatistics
BIOL 4123	Evolution
BIOL 4414	General Ecology
BIOL 4983	Seminar: Research Experience

C. Required Electives	16
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Choose from the following:

BIOL 1214	Botany
BIOL 2103	Horticulture
BIOL 2344	General Microbiology
BIOL 3034	Medical Botany
BIOL 3134	Field Zoology
BIOL 3143	Ethanobotany
BIOL 3214	Field Ornithology
BIOL 3234	General Entomology
BIOL 3245	Comparative Vertebrate Anatomy
BIOL 3254	Medical Entomology
BIOL 3314	Mammalogy
BIOL 3324	Herpetology
BIOL 3524	Mycology
BIOL 3674	Plant Ecophysiology
BIOL 3934	Limnology
BIOL 4113	Vertebrate Embryology
BIOL 4614	Animal Parasitology
GEOG 1214	Earth Science
GIS 2253	Initial Concepts in GIS
GIS 3613	Digital Mapping
GIS 3953	Spatial Analysis
GIS 4953	Automating GIS Workflows

III. Required Related		23-25
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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

IV. Electives		19-21
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An elective course is any college-level course not required by the degree that is utilized to reach the 120 credit hours required for degree completion. Elective courses are chosen according to the interest of the student and can be used in completion of a minor, certificate, or additional major.

V. Total Hours		120
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VI. Special Requirements		
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Teachers or methods courses do not count in this major

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