

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	Requirements	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

Teachers or methods courses do not count in this major

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