

East Central University  
BIOLOGY  
MAJOR CODE= 0040 / 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 <input type="checkbox"/>

Requirements	Hours	Hours
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*Courses highlighted in blue are general education courses.*

<b>I. General Education</b>	<b>40</b>	<b>III. Required Related Work</b>	<b>23</b>
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*A maximum of 12 hours may be counted in both the major/related work and general education.*

<b>II. Major in BIOLOGY</b>	<b>48</b>
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A. Required in Biology Core	20
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BIOL 1114	General Biology
BIOL 1214	General Botany
BIOL 1314	General Zoology
BIOL 3434	Genetics

One of the following

BIOL 3514	General Physiology <b>OR</b>
BIOL 3634	Human Physiology

B. Required in BIOLOGY Major	12
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BIOL 2344	Microbiology
BIOL 4313	Cell and Molecular Biology
BIOL 4414	General Ecology
BIOL 4881	Biology Senior Seminar

D. Required Electives	16
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16 hrs of elective biology with minimum of 11 hrs in 3000-4000 level courses (NOT BIOL 4473 and BIOL 4713)

E. Recommended Related Electives	
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CHEM 4114	Organic Chemistry II
CHEM 4213	Biochemistry
CHEM 4221	Biochemistry Lab
EHS 3703	Biostatistics
MATH 1223	Intro. To probability and Statistics
PSYCH 3833	Behavioral Science Statistics
SOC 3833	Statistics for Social Sciences

CHEM 1114	General Chemistry I
CHEM 1214	General Chemistry II
CHEM 3114	Organic Chemistry I
MATH 1513	College Algebra † <b>OR</b>
MATH 2825	Calculus and Analytic Geometry I
PHYS 1114	General Physics I
PHYS 1214	General Physics II

V. Electives	20
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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.

<b>VI. Total Hours Required</b>	<b>120</b>
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<b>VII. Special Requirements</b>	
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"Teachers" or "methods" courses may not be counted in the major.

Students interested in the 3+1 degree program (ECU-OSUCOM) can apply for early admission to the OSU College of Osteopathic Medicine and earn an ECU bachelors degree in biology by completing the first year of medical school at OSUCOM (D.O. degree). Complete information on the program can be obtained from the Records Office or the Department of Biological and Environmental Sciences.

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