

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.

I. General Education	40	III. Required Related Work	23
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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	48
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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 OR		
	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 † OR		
	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.

VI. Total Hours Required	120
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VII. Special Requirements	
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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.