

East Central University A1:K49  
 BIOLOGY- Health Science Conc.  
 Major Code=004C / 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
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*Courses highlighted in blue are general education courses.*

<b>I. General Education</b>	<b>40</b>
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*A maximum of twelve hours may be counted in both the major/related work and general education.*

<b>II. Major in BIOLOGY (Health Science Conc)</b>	<b>45-49</b>
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<b>A.</b>	Required in Biology Core	20
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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>B.</b>	Required in Health Science Conc.	16-17
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BIOL	2184	Human Anatomy OR	
	BIOL 3245	Comparative Vertebrate Anatomy	
BIOL	2344	General Microbiology	
BIOL	4313	Cell and Molecular Biology	
BIOL	4414	General Ecology	
BIOL	4881	Senior Seminar	

<b>C.</b>	Required Electives	9-12
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Choose 3 of the following:			
BIOL	2113	Medical Terminology	
BIOL	3013	Research Methods and Bioethics	
BIOL	3034	Medical Botany	
BIOL	3254	Medical Entomology	
BIOL	3623	Biochemistry of Human Disease	
BIOL	3654	Histology	
BIOL	3683	Immunology	
BIOL	4113	Vertebrate Embryology	
BIOL	4553	Pathogenic Microbiology	

<b>III. Required Related Work</b>	<b>29-31</b>
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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 or Analytic Geometry I
PHYS	1114	General Physics I
PHYS	1214	General Physics II
PSYCH	1113	General Psychology

one of following:

EHS	3703	Biostatistics & Envir. Calculations
MATH	1223	Intro to Probability and Statistics
PSYCH	3833	Behavioral Science Statistics
SOC	3833	Statistics for Social Sciences

<b>IV. Minor</b>	(not required) 0
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<b>V. Electives</b>	<b>13-18</b>
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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 do not count in the major.

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

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.