

East Central University
 BIOLOGY- Clinical Lab Scientist Concentration
 Major Code=004A / 2024-2025 Academic Catalog

Student Name: 30 hours at ECU completed 60 hours at Sr college completed 40 hours upper level completed	Student ID # Advisor: OSRHE Computer Proficiency Requirement met
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Requirements	Hours		Hours
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Courses highlighted in blue are general education courses.

I. General Education A11:K3	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	62-63
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A. Required Core Courses	20
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BIOL	1114	General Biology
BIOL	1214	General Botany
BIOL	1314	General Zoology
BIOL	3434	Genetics
		One of Following:
BIOL	3514	General Physiology OR
	BIOL 3634	Human Physiology

B. Required in Clinical Lab Science Concentration	42-43
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BIOL	2344	Microbiology
BIOL	3683	Immunology
BIOL	4881	Senior Seminar
MEDTE	4117	Clinical Microbiology
MEDTE	4125	Clinical Chemistry I
MEDTE	4236	Clinical Hematology
MEDTE	4246	Clinical Immunology
MEDTE	4325	Clinical Chemistry II
MEDTE	4351	Topics in Med Tech
		One of Following:
BIOL	2184	Human Anatomy OR
	BIOL 3245	Comparative Vertebrate Anatomy

III. Required Related Work			19-21
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CHEM	1114	General Chemistry I
CHEM	1214	General Chemistry II
CHEM	3114	Organic Chemistry I
CHEM	4213	Biochemistry
CHEM	4221	Biochemistry Lab
MATH	1513	College Algebra † OR
	MATH 2825	Calculus and Analytic Geometry I

IV. Minor			
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Not required.

V. Electives			7-11
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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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† 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.