



Eastern New Mexico University
College of Liberal Arts & Sciences
2019-2021 Catalog

Date:	Major:	Biology (no minor required)
Name:	Emphasis:	Microbiology, Molecular Biology & Biotechnology (MMBB)
ID#:	Degree:	Bachelor of Arts OR Bachelor of Science

This degree plan is a guideline only. Consult with an adviser before enrolling in courses. For more detailed information on coursework and degree requirements, refer to the catalog and consult with an adviser.

Note: The B.A. and B.S. degrees require 120 minimum total credit hours including 40 upper-division (300 or 400 level) hours. B.A. candidates must satisfy the language requirement (6-14 hours). The B.A. and B.S. degrees require a minimum of 40 hours of upper-division courses. Developmental and vocational/technical courses will not be counted toward graduation requirements.

BACHELOR'S DEGREE REQUIREMENTS (6 hours)	Course	Credits	Semester	Grade
FYEX 110 First-Year Seminar	_____	3	_____	_____
Diversity/Global Upper-Division	_____	3	_____	_____

GENERAL EDUCATION Requirements (31-33 hours)

REQUIREMENTS IN Biology Core (26 hours)	Course	Credits	Semester	Grade
BIOL 2110/L Principles of Bio: Cellular and Molecular Biology and Lab	_____	4	_____	_____
BIOL 2610/L Principles of Bio: Biodiversity, Ecology & Evolution & Lab I	_____	4	_____	_____
BIOL 2630 General Botany	_____	3	_____	_____
BIOL 2120 Cellular & Molecular Biology	_____	3	_____	_____
BIOL 303 General Ecology	_____	3	_____	_____
BIOL 304/L Genetics	_____	4	_____	_____
BIOL 306/L Microbiology	_____	4	_____	_____
BIOL 492 Undergraduate Seminar & Assessment	_____	1	_____	_____

REQUIREMENTS IN MMBB Emphasis (20-22 hours)	Course	Credits	Semester	Grade
BIOL 375 General Biotechnology	_____	3	_____	_____
BIOL 409/L Microbial Physiology	_____	4	_____	_____
BIOL 421 Immunology	_____	3	_____	_____
BIOL 422/L Medical Microbiology	_____	4	_____	_____
BIOL 425/L Molecular Biology	_____	4	_____	_____
BIOL 450 Virology	_____	3	_____	_____

Students must complete 3 to 4 upper-division (300/400 level) hours in a speciality course.

300/400 level	_____	_____
300/400 level	_____	_____

REQUIREMENTS IN Other Areas (31-32 hours)				
	Course	Credits	Semester	Grade
	CHEM 1215/L General Chemistry I for STEM Majors and Lab	4		
	CHEM 1225/L General Chemistry II for STEM Majors and Lab	4		
	CHEM 341/L Organic Chemistry	4		
	PHYS 1230/L Algebra-based Physics I	4		
	PHYS 1240/L Algebra-based Physics II	4		
	MATH 1220 College Algebra	4		
	MATH 1510 Calculus I OR	4		
	MATH 1430 Application os Calculus I	3		
	MATH 1350 Intro to Statistics Methods I	4		

Note: The biology faculty strongly recommends pre-medical students also take:

	CHEM 342/L	4		
	CHEM 401/L	2		
	CHEM 452	3		
	PSYC 1110	3		
	SOCI 1110	3		

ELECTIVES As needed to fulfill requirement of 120 total credit hours.