



**ENMU-ROSWELL (2024-2025)**  
**ASSOCIATE OF SCIENCE IN BIOLOGY**  
**ENMU-PORTALES (2023-2025)**  
**BACHELOR OF SCIENCE IN BIOLOGY, Emphasis in MMBB**

Associate of Science in Biology at ENMU-Roswell (Minimum 63-64 Credit Hours)							
Subject	No.	Title	Hours	Subject	No.	Title	Hours
Lab Science Gen Ed (recommend BIOL 2110/L; required for AS)			4	BIOL	2225/L	Anatomy & Physiology II + Lab	4
Comm Gen Ed (recommend ENGL 1110, 1120; COMM 1130/2120)			9	CHEM	1215/L	General Chemistry I for STEM Majors + Lab	4
Mathematics Gen Ed (recommend MATH 1220 - required for AS)			3	CHEM	1225/L	General Chemistry II for STEM Majors + Lab	4
Social-Behavioral Sci Gen Ed (recommend PSYC/SOCI 1110)			3	MATH	1220	College Algebra	3
Humanities Gen Ed (recommend PHIL 2110)			3	MATH	1230	Trigonometry	3
Creative-Fine Arts Gen Ed (recommend ARTS 1610)			3	MATH	1350	Intro to Statistics	4
Math/Lab/Soc-Beh Gen Ed (rec MATH 1230/1350 - required for AS)			3	MATH	1510	Calculus I	4
Humanities/Fine Arts Gen Ed (recommend SPAN 1110)			3	PHYS	1230/L	Algebra-based Physics I + Lab	4
BIOL	2110/L	Cellular & Molecular Biology + Lab	4				
BIOL	2210/L	Anatomy & Physiology I + Lab	4				
				<b>ONE of:</b>	BIOL 2120, 2310/L, 2610/L, GEOL 1110/L, -OR- PHYS 1240/L *		4

\* **PHYS 1240/L and MATH 1430 or 1510 must be completed as part of the BS degree.**

Courses That Can Be Completed at Either Institution							
				Subject	No.	Title	Hours
These required courses may be completed at either ENMU-Roswell (recommended) or at ENMU-Portales. A grade of C or better is necessary for these courses.				BIOL	2120	Cellular & Molecular Biol (BS requirement)	3
				BIOL	2610/L	(If not taken for AS degree - BS requirement)	4
				PHYS	1240/L	(If not taken for AS degree - BS requirement)	4

Bachelor of Science in Biology at ENMU-Portales, Emphasis in Microbiology, Molecular Biology and Biotechnology							
Subject	No.	Title	Hours	Subject	No.	Title	Hours
CORE REQUIREMENTS (All Emphases):				EMPHASIS Requirements: Microbiology, Molecular Biology and Biotechnology			
Upper-Division Diversity/Global required course				BIOL	375	General Biotechnology	1
BIOL	2630	General Botany	3	BIOL	409/L	Microbial Physiology & Lab	4
BIOL	303	General Ecology	3	BIOL	421	Immunology	3
BIOL	304/L	Genetics and Laboratory	4	BIOL	422/L	Medical Microbiology	4
BIOL	306/L	Microbiology and Laboratory	4	BIOL	425/L or 450	Molecular Bio & Lab -OR- Virology	3 or 4
BIOL	492	Undergraduate Seminar and Assessment	3	ONE upper-division (300-/400-level) specialty course			3 or 4
CHEM	341/L	Organic Chemistry I	4	Electives to meet BS degree requirements *			Var.

Minimum GPA Requirement: 2.0			
Minimum hours of General Education Courses	31 *	ENMU-Roswell AS in Biology	63
Minimum hours of Upper-Division Courses for BS Degree	40 *	ENMU-Portales Upper-Div Diversity/Global requirement	3 *
Minimum hours taken from ENMU-Portales (final 30 of 60)	30 *	ENMU-Portales BS in Biology, MMBB Emphasis	Var.
Minimum hours for BS (Transferred + ENMU-Portales)	120 *	Electives if needed to meet BS requirements	Var.

\* BS Degree Requirements

Total: Minimum 120 Credit Hours