

**NEW MEXICO MILITARY ACADEMY (2022-2023)**  
**AS IN PHYSICAL SCIENCES**  
**ENMU-PORTALES (2023-2025)**  
**BS IN CHEMISTRY**

**Associate of Science in Physical Sciences at NMMI (70 - 80 Minimum Credit Hours)**

Subject	Number	Title	Credit Hours	Subject	Number	Title	Credit Hours
MATH	1510	Calculus I	4	*	*	Physical Sciences Elective: Another laboratory science (CHEM, GEOL, PHYS)	4
MATH	1520	Calculus II	4				
CHEM	1215/1225	Required Lab Sequence: General Chemistry I and II for STEM Majors + Labs	8			New Mexico General Education Requirement	31 to 33

Total Hours 70 - 80

**Courses That Can Be Completed at Either Institution**

Subject	Number	Title	Credit Hours	Subject	Number	Title	Credit Hours
These required courses may be completed at either NMMI (recommended) or at ENMU-Portales. A grade of C or better is necessary for these courses.				MATH	1220	College Algebra (Required for BS Degree)	3
				MATH	1230	Trigonometry (Required for BS Degree)	3
				MATH	2530	Calculus III (Required for BS Degree)	3
				PHYS	1230/L	Algebra-Based Physics I (Required for BS Degree)	4
				PHYS	1240/L	Algebra-Based Physics II (Required for BS Degree)	4

**Bachelor of Science in Chemistry at ENMU-Portales**

Subject	Number	Title	Credit Hours	Subject	Number	Title	Credit Hours
*	*	Diversity/Global Upper-Division	3	CHEM	401/L	Biochemical Methods	4
CHEM	2310/L	Quantitative Analysis	4	CHEM	411/L	Physical Chemistry I / Thermodynamics	4
CHEM	341/L	Organic Chemistry I	4	CHEM	412	Physical Chemistry / Quantum Mechanics	3
CHEM	342/L	Organic Chemistry II	4	CHEM	452	Biochemistry	3
CHEM	450/L	Instrumental Analysis	4	CHEM	453	Advanced Biochemistry	3
CHEM	492	Undergraduate Seminar	3	CHEM	470	Investigative Problems	3
CHEM	495	Senior Chemistry Review	3	BIOL	2110/L	Prin. Of Biology: Cellular & Molecular Biology	4
CHEM	321/L	Inorganic Chemistry	4			Elective Courses to reach minimum of 120 hours if required	

<b>Minimum GPA Requirement</b>	<b>2.0</b>	<b>NMMI AS in Physical Sciences</b>	<b>70 - 80</b>
<b>Minimum hours of Upper-Division Courses for BA/BS Degree</b>	<b>40</b>	<b>ENMU-Portales Upper-Div Diversity/Global requirement</b>	<b>3</b>
<b>Minimum hours taken from ENMU-Portales (final 30 of 60)</b>	<b>30</b>	<b>ENMU-Portales BS in Chemistry</b>	<b>Var.</b>
<b>Minimum hours for BS (Transferred + ENMU-Portales)</b>	<b>120</b>	<b>Electives if needed to meet Degree requirements</b>	<b>Var.</b>

**Total: Minimum 120 Credit Hours**