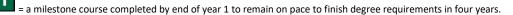


Northwest Missouri State University Department of Natural Sciences Physics –General Physics Emphasis Bachelor of Science

Term 1	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
17-117	Precalculus	Minimum ACT math score of 22 OR minimum high school GPA 3.5	5	
29-102	Fund of Oral Communication		3	
77-101	University Seminar		1	
	Digital Literacy		3	
24-114/115	General Chemistry I & Lab		4	
	<u> </u>	Total Hours	16	
Term 2	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
44-141	Computer Programming I		3	
10-111	Composition I		3	
04-106/107	Principles of Biology & Lab		4	
17-120	Calculus I	Precalculus Algebra OR Precalculus AND Trigonometry	4	1
	Global Experience		3	
		Total Hours	17	
Term 3	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
17-121	Calculus II	Calculus I	5	
	Humanities		3	
25-120/121	Classical Physics I & Lab	Calculus I	5	FALL only
	American Experiences		3	
		Total Hours	15	
Term 4	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
17-321	Calculus III	Calculus II	4	
34-102	Intro to American Government		3	
25-230/231	Classical Physics II & Lab	Classical Physics I & Lab AND Calculus II	5	SPRING only
	Social & Behavioral Science		3	
		Total Hours	15	
Term 5	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
25-420 OR	Advanced Physics Laboratory	Classical Physics II & Lab	1	
25-479	Undergraduate Research	AND Calculus II		
25-360 OR	Quantum Mechanics	Quantum: Introduction to	3	Physics Electives
25-430	Optics	Quantum OR Physical		Quantum: SPRING EVEN
		Chemistry I & Lab AND		YEARS only
		Calculus III		Optics: FALL EVEN YEARS
25.222	51	Optics: Calculus II		only
25-330	Electricity and Magnetism	Classical Physics I & Lab AND Calculus III	3	FALL EVEN YEARS only
10-112	Composition II	Composition I	3	
	Fine Art		3	
		Total Hours	13	



= a milestone course completed by end of year 2 to remain on pace to finish degree requirements in four years.

I = a milestone course completed by end of year 3 to remain on pace to finish degree requirements in four years.

 $\Delta$  = a milestone courses taken in final year to complete degree requirements.



## Northwest Missouri State University Department of Natural Sciences Physics –General Physics Emphasis Bachelor of Science

Term 6	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
25-420 OR	Advanced Physics Laboratory	Classical Physics II & Lab	1	
25-479	Undergraduate Research	AND Calculus III		
25-352	Modern Physics	Classical Physics II & Lab	3	SPRING ODD YEARS only
24-332/333	Electronics & Lab	Classical Physics II & Lab	4	SPRING ODD YEARS only
17-361	Differential Equations	Calculus II	3	SPRING only
29-102	Fund. Of Oral Communication		3	
		Total Hours	14	
Term 7	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
25-420 OR	Advanced Physics Laboratory	Classical Physics II & Lab	1	
25-479	Undergraduate Research	AND Calculus III		
25-350	Intro to Quantum Mechanics	Classical Physics II & Lab	3	FALL ODD YEARS only
25-320/321	Classical Mechanics & Lab	General Physics I & Lab	4	FALL ODD YEARS only
		AND Calculus II		·
10-220	Intro to Literature		3	
	Elective		3	
		Total Hours	14	
Term 8	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
25-420 OR	Advanced Physics Laboratory	Classical Physics II & Lab	1	
25-479	Undergraduate Research	AND Calculus III		
	Social & Behavioral Science		3	
25-450	Computational Physics	Classical Physics II & Lab	3	SPRING EVEN YEARS only
		AND Computer		
		Programming I		
25-360 OR	Quantum Mechanics	Quantum: Introduction to	3	Physics Electives
25-430	Optics	Quantum OR Physical		Quantum: SPRING EVEN
		Chemistry I & Lab AND		YEARS only
		Calculus III		Optics: FALL EVEN YEARS
		Optics: Calculus II		only
25-489 OR	Physics Practicum OR	Permission of Instructor	2	
25-499	Special Investigations in Physics			
	Elective		2	
Total Hours				



= a milestone course completed by end of year 2 to remain on pace to finish degree requirements in four years.

I = a milestone course completed by end of year 3 to remain on pace to finish degree requirements in four years.

= a milestone courses taken in final year to complete degree requirements.



