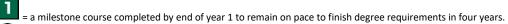


Northwest Missouri State University Department of Natural Sciences Biology: Biomedical Sciences Comprehensive Major – No Minor Required Bachelor of Science

This degree track is intended for students interested in preparation for professional programs such as **medical, dental, veterinary, and optometry** school. Many of the requirements for these programs are the same. Students are encouraged to speak to their academic advisor about how best to utilize their elective hours to give themselves the best chance for admission to one of these programs.

Term 1	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-106/107	Principles of Biology & Lab		4	
24-114/115	General Chemistry I & Lab		4	
10-111	Composition I		3	
17-120	Calculus I	Precalculus OR Precalculus	4	
		Algebra AND Trigonometry		
		OR ACT Math score of at		
		least 27, or high school		
		GPA of 3.9 is		
		recommended		
77-101	University Seminar		1	
		Total Hours	16	
Term 2	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-112/113 OR	General Botany & Lab OR	Principles of Biology & Lab	4	
04-114/115	General Zoology & Lab			
24-116/117	General Chemistry II & Lab	General Chemistry I & Lab	5	
10-112	Composition II	Composition I	3	
08-103	General Psychology		3	Recommended Social &
				Behavioral Science
		Total Hours	15	
Term 3	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-112/113 OR	General Botany & Lab OR	Principles of Biology & Lab	4	
04-114/115	General Zoology & Lab			
24-342/343	Organic Chemistry I & Lab	General Chemistry II & Lab	4	
29-102	Fundamentals of Oral Communication		3	
35-102	General Sociology		3	Recommended Social &
				Behavioral Science
17-114	General Statistics	An ACT Math score of 22	3	
		or higher, high school GPA		
		of 3.00 or higher OR		
		concurrently with		
		Strategies for General		
		Statistic		
		17		



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

= 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.

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Northwest Missouri State University Department of Natural Sciences Biology: Biomedical Sciences Comprehensive Major – No Minor Required Bachelor of Science

Term 4	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-350	Genetics	Principles of Biology & Lab	4	
24-344/345	Organic Chemistry II & Lab	Organic Chemistry I & Lab	4	
	Digital Literacy		3	
	Fine Art		3	
Total Hours			14	
Term 5	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
25-110/111	General Physics I & Lab	Mathematical Modeling	4	Consider taking during a
		OR Precalculus OR		summer term to
		Precalculus Algebra OR		distribute your science
		Calculus I		course load more evenly.
04-310	Cell Biology	Principles of Biology & Lab	4	Recommended
		AND General Chemistry I &		prerequisite Organic
		Lab AND General		Chemistry I & Lab
		Chemistry II & Lab		
	Humanities		3	
24-562	General Biochemistry	Organic Chemistry I & Lab	3	
	Upper-level Elective		3	
		Total Hours	17	
Term 6	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
39-276	Biomedical Ethics		3	Recommended
				Humanities
25-112/113	General Physics II & Lab	Mathematical Modeling	4	Consider taking during a
		OR Precalculus OR		summer term to
		Precalculus Algebra OR		distribute your science
		Calculus I		course load more evenly.
04-140	General Microbiology	Principles of Biology & Lab	4	Consider taking during a
		AND General Chemistry I &		summer term to
		Lab		distribute your science
				course load more evenly.
04-438	Human Physiology	Cell Biology	4	
Total Hours				

= a milestone course completed by end of year 1 to remain on pace to finish degree requirements in four years.

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

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Northwest Missouri State University Department of Natural Sciences Biology: Biomedical Sciences Comprehensive Major – No Minor Required Bachelor of Science

Term 7	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-435 OR	Comparative Anatomy OR	Comparative: General	4-5	Human Anatomy
04-436	Human Anatomy	Zoology & Lab AND		recommended
		General Physics I & Lab OR		prerequisite Medical
		Classical Physics I & Lab		Terminology
		Human: General Zoology &		
		Lab		
34-102	Intro to American Government and		3	
	Politics			
04-376	Basic Ecology	General Botany & Lab AND	4	
		General Zoology & Lab		
33-155 OR	The United States to 1877 OR		3	
33-156	The United States since 1877			
		Total Hours	14-15	
Term 8	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-348	Biological Evolution & Diversity	General Botany & Lab AND	2	Consider taking during a
		General Zoology & Lab		summer term to
				distribute your science
				course load more evenly.
04-491	Biological Science Seminar	Genetics	1	
10-220	Intro to Literature		3	
	Upper-level Elective		3	
	Elective		3	
Total Hours				

= a milestone course completed by end of year 1 to remain on pace to finish degree requirements in four years.

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

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

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

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