

## Northwest Missouri State University Department of Natural Sciences Clinical Laboratory Sciences Bachelor of Science

The curriculum leading to the Bachelor of Science in Clinical Laboratory Sciences degree emphasizes biology and chemistry. The program involves three years of study on campus and one year of study at an approved hospital or medical center. Acceptance into an affiliated hospital is decided entirely by the hospital and is based on 1) the quality of academic work completed by the student in the first three years, 2) letters of recommendation, and 3) in most cases, personal interviews. Upon successful completion of the clinical program, a Bachelor of Science in Clinical Laboratory Sciences degree is received.

The University is affiliated with several hospitals. There is one located in Iowa – Mercy Medical Center in Des Moines, two located in the Kansas City, Missouri area – North Kansas City Hospital and St. Luke's Hospital of Kansas City, and one located in Omaha, Nebraska – Methodist Hospital.

Term 1	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
77-101	University Seminar		1	
04-106/107	Principles of Biology & Lab		4	
24-114/115	General Chemistry I & Lab		4	
10-111	Composition I		3	
	Social & Behavioral Science		3	
		Total Hours	15	
Term 2	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
10-112	Composition II	Composition I	3	
04-114/115	General Zoology & Lab	Principles of Biology & Lab	4	
24-116/117	General Chemistry II & Lab	General Chemistry I & Lab	5	
17-116 OR	Mathematical Modeling OR	Precalculus Algebra: ACT	3-4	
17-117 OR	Precalculus Algebra OR	Math score of 22 or		
17-120	Calculus I	higher, score of PASS on		
		NW Algebra Review OR		
		concurrent with Strategies		
		for Precalculus Algebra		
		Calculus I: Precalculus OR		
		Precalculus Algebra AND		
		Trigonometry		
		Total Hours	15-16	
Term 3	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
24-322/323	Analytical Chemistry & Lab	General Chemistry II & Lab	4	FALL ONLY COURSE
04-310	Cell Biology	Principles of Biology & Lab	4	General Statistics OR Cell
		General Chemistry I & Lab		Biology OR Molecular
		General Chemistry II & Lab		Biology (SPRING ODD
				YEAR). Only one of three
				required, but
				recommended to take
				two of the three options
	Civics: Political Science		3	
29-102	Fundamentals of Oral Communication		3	
	Fine Art		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.



 $^{\prime}$  = 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.

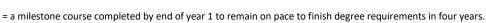


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Term 4	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
25-112/113	General Physics II & Lab	Mathematical Modeling	4	
		OR Precalculus OR		
		Precalculus Algebra		
04-140	General Microbiology	Principles of Biology AND	4	
		General Chemistry I & Lab		
	Civics: History		3	
10-220	Intro to Literature		3	
	Digital Literacy		3	
		Total Hours	17	
Term 5	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
24-342/343	Organic Chemistry I & Lab	General Chemistry II & Lab	4	FALL ONLY COURSE
04-350	Genetics	Principles of Biology & Lab	4	
	Humanities		3	
	Social and Behavioral Sciences		3	
		Total Hours	14	
Term 6	Course Title/Description	Pre-requisite	Cr Hrs	Milestone/Notes
04-444	Immunology	Microbiology AND General	5	SPRING ONLY COURSE
		Chemistry I & Lab		
04-438	Human Physiology	Cell Biology	4	Recommended
				prerequisite: Medical
				Terminology and either
				Allied Anatomy OR
				Human Anatomy OR
				Comparative Anatomy
24-362/363	Elementary Biochemistry & Lab	Organic Chemistry I & Lab	4	SPRING ONLY COURSE
	Humanities		3	
		Total Hours	16	

In conjunction with approved hospitals and medical centers. The fourth year is spent in the hospital and involves 10 months of training. Upon successful completion of the clinical year, 30 hours of academic credit is received.

> **Total Hours** 30





= 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.