

Bachelor of Science 2024-25**Medical Laboratory Science**

CIP Code: 511005

Major Code ML00

Cr Hrs

General Education CORE 42 Requirements 42*		35
Area 1A	Social & Behavioral Sciences	6
Area 1B	Civic Engagement	3
Area 2A	Written Communication	6
Area 2B	Oral Communication	3
Area 3A	Natural Science Non-Lab (CHEM 140)	
Area 3B	Natural science With Lab (BIO 121 or PHYS 160)	
Area 4	Mathematics (MATH 130, 140 or 150)	3
Area 5A	Humanities	6
Area 5B	Fine Arts	3
Area 5C	Global Competencies	3
Area 5D	Health and Wellness	2
UE 100	University Experience**	1
Biology Requirements		29-31
BIO 110	Principles of Biology I	4
BIO 201	Human Anatomy	4
BIO 231	General and Medical Microbiology***	5
BIO 301	Physiology	5
BIO 305	Genetics***	4
BIO 456	Immunology***	4
And one of the following three courses:		3-5
BIO 362	Virology*** (3)	
BIO 442	Pathogenic Bacteriology*** (5)	
BIO 308	Pathophysiology*** (4)	
Chemistry Requirements		25
CHEM 151	General Chemistry I	5
CHEM 152	General Chemistry II	5
CHEM 201	Analytical Chemistry I***	5
CHEM 301	Organic Chemistry I***	5
CHEM 350	Biochemistry***	3
CHEM 355	Biochemical Techniques	2
400 Level Medical Lab Science Courses (at Hospital)		32
MT 401	Clinical Chemistry	10
MT 402	Clinical Microscopy	1
MT 403	Clinical Hematology	6
MT 404	Clinical Serology-Immunology	3
MT 405	Clinical Microbiology	7
MT 406	Clinical Immunohematology-Blood Bank	3
MT 407	Special Topics in Medical Technology	2
Total Hours	Must include at 39 upper division (300-400) hrs	122-124

Gen Ed. Core 42 requirements Area 3 (7 hours) met by CHEM 140 and BIO 108/109 and Area 4 met by MATH 130 (3 hrs) or higher level math