South Dakota State University

Bachelor of Science
Major: Medical Laboratory Science
2025-2026 Sample 4-Year Plan
Total Degree Requirements: 120 credits

Student _____ **Student ID#** _____ **Student Phone #** _____

Advisor _____ **Minimum GPA** _____ **Minor/Career Interest(s)** _____

Students are not limited to this plan; it is meant to be used as a guide for planning purposes in consultation with your advisor. The sample schedule is one possible path to completing your degree within four years. For official program requirements, please refer to the Undergraduate Catalog.

FIRST YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CHEM 106/106L	Chemistry Survey and Lab (SGR #6)		4		
GEN ELEC	General Elective (BIOL 151/L Recommended)		3		
MATH 114	College Algebra (SGR #5)	p. Placement	3		
MLS 201	Understand Medical Laboratory Science		2	F	
SGR #2	Oral Communication (CMST 101 Recommended)		3		
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
CHEM 108/108L	Organic and Biochemistry and Lab (SGR #6)	p. CHEM 106/L	5		
SGR #1	Written Communication (ENGL 101 Recommended)		3		
SGR #3	Social Sciences (SGR #3 satisfied by coursework from 2 disciplines; one must fulfill civics requirement)	From 2 different disciplines	3		
GEN ELEC	General Elective (MICR 231/L Recommended)		4		
		Total Credit Hours	15		

SECOND YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 221/221L	Human Anatomy and Lab		4		
SGR #1	Written Communication (ENGL 201 Recommended)		3		
SGR #4	Arts and Humanities	From 2 different disciplines	3		
GEN ELEC	General Elective		3		
		Total Credit Hours	13		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
BIOL 325/325L	Physiology and Lab	p. BIOL 221/L and CHEM 106	4		
STAT 281	Introduction to Statistics	p. MATH 103 or higher	3		
SGR #3	Social Sciences (SGR #3 satisfied by coursework from 2 disciplines; one must fulfill civics requirement)	From 2 different disciplines	3		
SGR #4	Arts and Humanities	From 2 different disciplines	3		
		Total Credit Hours	13		

THIRD YEAR

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
MLS 311	Clinical Chemistry I	p. CHEM 108/L	3	F	
MLS 403	Diagnostic Immunology		3	F	
MLS 412/412L	Laboratory Safety and Phlebotomy & Lab		4	F	
MLS 301/301L	Hematology I & Lab		4	F	
MLS 310	Laboratory Operations		2	F	

Information Subject to Change. This is not a contract.

p. = Course Prerequisite
Semester: F = Fall, S = Spring, SU = Summer

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
		Total Credit Hours	16		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
MLS 401/401L	Hematology II and Hemostasis & Lab		4	S	
MLS 341/341L	Diagnostic Microbiology I & Lab		5	S	
MLS 411/411L	Clinical Chemistry II & Lab		5	S	
MLS 431/431L	Immunohematology I & Lab	p. MLS 403	3	S	
		Total Credit Hours	17		

MLS 2

Fall

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
MLS 441/441L	Diagnostic Microbiology II & Lab		5	F	
MLS 451/451L	Immunohematology II & Lab		3	F	
MLS 461	Leadership & Education in the Medical Laboratory		3	F	
MLS 471/471L	Advanced Medical Diagnostics & Lab		4	F	
		Total Credit Hours	15		

Spring

Prefix + Number	Course Title	Prerequisites/Comments	Credits	Semester	Grade
MLS 472	Advanced Clinical Experience I		5	S	
MLS 473	Advanced Clinical Diagnostics I		3	S	
MLS 474	Advanced Clinical Diagnostics II		3	S	
MLS 475	Advanced Clinical Experience II		3	S	
MLS 483	Medical Laboratory Capstone		3	S	
MLS 489	Phlebotomy Clinical Experience		1	S	
		Total Credit Hours	18		

COMMENTS/NOTES

Students from all academic majors can pursue graduation with Fishback Honors College distinction. View the Honors program requirements.

Medical Laboratory Science Professional Program Admission

Admission is competitive and will be determined based on the following criteria:

1. Submission of cumulative GPA on a 4.0 scale of all college work completed at the time of application.
2. Grade of C or 70% minimum on all prerequisite courses.
3. Completion of prerequisite courses CHEM106/106L, CHEM108/108L, BIOL 221/221L, BIOL 325/325L, STAT 281, and course or content equivalences as approved by the program director prior to admission.
4. Confirmation of ability to meet the non-academic Essential Functions of the program.
5. Completion of an approved background check administered according to program guidelines. (expenses concurred are student's responsibility) *
6. Completion of an interview with the Medical Laboratory Science Admissions committee.

*Note: An additional background check may be required prior to clinical placement, dependent on clinical affiliate requirements. Students are responsible for all costs associated with background checks.

Notes

Clinical Practice courses will be completed at a clinical affiliate site. Placement at the clinical affiliate will be made by MLS program faculty. Current available sites are Avera Health Network Affiliated Hospitals, Mayo SW Regional Health Network, VA Regional Medical Center Sioux Falls, Huron Regional Medical Center, Prairie Lakes Healthcare, VA Medical Center Black Hills of Hot Springs, Rapid City Regional Hospital, Sanford Health Network Affiliated Hospitals and Spearfish Regional Hospital.