



**SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS**

Substantive Program Modification Form

UNIVERSITY:	SDSU
CURRENT PROGRAM DEGREE:	B.S.
CURRENT PROGRAM MAJOR/MINOR:	Medical Laboratory Science
CURRENT SPECIALIZATION:	N/A
CIP CODE:	51.1005
UNIVERSITY DEPARTMENT:	Allied & Population Health
BANNER DEPARTMENT CODE:	SAPH
UNIVERSITY COLLEGE:	Pharmacy & Allied Health Professions
BANNER COLLEGE CODE:	3P

University Approval

To the Board of Regents and the Executive Director: I certify that I have read this proposal, that I believe it to be accurate, and that it has been evaluated and approved as provided by university policy.

Dennis D. Hedge

12/17/2024

Vice President of Academic Affairs or
President of the University

Date

1. This modification addresses a change in:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Total credits required within the discipline | <input type="checkbox"/> Total credits of supportive course work |
| <input checked="" type="checkbox"/> Total credits of elective course work | <input type="checkbox"/> Total credits required for program |
| <input type="checkbox"/> Program name | <input type="checkbox"/> Existing specialization |
| <input type="checkbox"/> CIP Code | <input type="checkbox"/> Other (explain below) |
| <input type="checkbox"/> Modification requiring Board of Regents approval
<i>Must have prior approval from Executive Director or designee</i> | |

2. Effective date of change: 2025-2026 Academic Year

3. Program Degree Level:

Associate Bachelor's Master's Doctoral

4. Category:

Certificate Specialization Minor Major

5. If a name change is proposed, the change will occur:

- On the effective date for all students
 On the effective date for students new to the program (enrolled students will graduate from existing program)

Proposed new name:

6. Is the program being modified associated with a current articulation agreement?

Yes No

- a. If yes, will the articulation agreement need to be updated with the partner institution following the approve of the program change? Please explain: N/A

7. Primary Aspects of the Modification:

Existing Curriculum

Proposed Curriculum (highlight changes)

Prof.	Num.	Title	Cr. Hrs.	Prof.	Num.	Title	Cr. Hrs.
System General Education Requirements			33	System General Education Requirements			33
System General Education Requirements - Electives			21	System General Education Requirements - Electives			21
		SGR #1	3			SGR #1	3
		SGR #1	3			SGR #1	3
		SGR #2	3			SGR #2	3
		SGR #3	3			SGR #3	3
		SGR #3	3			SGR #3	3
		SGR #4	3			SGR #4	3
		SGR #4	3			SGR #4	3
System General Education Requirements - Required			12	System General Education Requirements - Required			12
MATH	114	College Algebra (SGR #5)	3	MATH	114	College Algebra (SGR #5)	3
CHEM	106	Chemistry Survey I (SGR #6)	3	CHEM	106	Chemistry Survey I (SGR #6)	3
CHEM	106L	Chemistry Survey I Lab (SGR #6)	1	CHEM	106L	Chemistry Survey I Lab (SGR #6)	1
CHEM	108	Chemistry Survey II (SGR #6)	4	CHEM	108	Chemistry Survey II (SGR #6)	4
CHEM	108L	Chemistry Survey II Lab (SGR #6)	1	CHEM	108L	Chemistry Survey II Lab (SGR #6)	1
Major Requirements			77	Major Requirements			79
BIOL	221	Anatomy	4	BIOL	221	Anatomy	3
BIOL	221L	Anatomy Lab	0	BIOL	221L	Anatomy Lab	1
BIOL	325	Physiology	4	BIOL	325	Physiology	3
BIOL	325L	Physiology Lab	0	BIOL	325L	Physiology Lab	1
MLS	201	Understanding Medical Laboratory Science	2	MLS	201	Understanding Medical Laboratory Science	2
MLS	301	Hematology I	2	MLS	301	Hematology I	3
MLS	301L	Hematology I Lab	1	MLS	301L	Hematology I Lab	1
				MLS	310	Laboratory Operations	2
MLS	311	Clinical Chemistry I	4	MLS	311	Clinical Chemistry I	3
MLS	341	Diagnostic Microbiology I	3	MLS	341	Diagnostic Microbiology I	3
MLS	341L	Diagnostic Microbiology I Lab	2	MLS	341L	Diagnostic Microbiology I Lab	2
MLS	401	Hematology II and Hemostasis	3	MLS	401	Hematology II and Hemostasis	3
MLS	401L	Hematology II and Hemostasis Lab	1	MLS	401L	Hematology II and Hemostasis Lab	1
MLS	403	Diagnostic Immunology	3	MLS	403	Diagnostic Immunology	3
MLS	403L	Diagnostic Immunology Lab	1	MLS	403L	Diagnostic Immunology Lab	1
MLS	411	Clinical Chemistry II	3	MLS	411	Clinical Chemistry II	4
MLS	411L	Clinical Chemistry II Lab	1	MLS	411L	Clinical Chemistry II Lab	1
MLS	412	Laboratory Methods	3	MLS	412	Laboratory Safety & Phlebotomy	3
MLS	412L	Laboratory Methods Lab	1	MLS	412L	Laboratory Safety & Phlebotomy Lab	1
MLS	431	Immunochemistry	2	MLS	431	Immunochemistry	2
MLS	431L	Immunochemistry Lab	1	MLS	431L	Immunochemistry Lab	1
MLS	441	Diagnostic Microbiology II	3	MLS	441	Diagnostic Microbiology II	3
MLS	441L	Diagnostic Microbiology II Lab	2	MLS	441L	Diagnostic Microbiology II Lab	2
MLS	451	Immunochemistry II	2	MLS	451	Immunochemistry II	2
MLS	451L	Immunochemistry II Lab	1	MLS	451L	Immunochemistry II Lab	1
MLS	461	Intro. To Management and Education	3	MLS	461	Leadership & Education in the Medical Laboratory	3
MLS	471	Advanced Medical Diagnostics	2	MLS	471	Advanced Medical Diagnostics	2
MLS	471L	Advanced Medical Diagnostics Lab	2	MLS	471L	Advanced Medical Diagnostics Lab	2
MLS	472	Advanced Clinical Experience I	5	MLS	472	Advanced Clinical Experience I	5
MLS	473	Advanced Clinical Diagnostics I	3	MLS	473	Advanced Clinical Diagnostics I	3
MLS	474	Advanced Clinical Diagnostics II	3	MLS	474	Advanced Clinical Diagnostics II	3
MLS	475	Advanced Clinical Experience II	3	MLS	475	Advanced Clinical Experience II	3
MLS	483	Senior Capstone Clinical Experience	3	MLS	483	Medical Laboratory Capstone	3
MLS	489	Phlebotomy Clinical Experience	1	MLS	489	Phlebotomy Clinical Experience	1
STAT	281	Introduction to Statistics	3	STAT	281	Introduction to Statistics	3
Electives (Additional elective credits needed to reach 120 credits)			10	Electives (Additional elective credits needed to reach 120 credits)			8

Summary of Credits Medical Laboratory Science (B.S.)

<i>Existing Curriculum</i>				<i>Proposed Curriculum (highlight changes)</i>			
Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
		System General Education Requirements	33			System General Education Requirements	33
		Major Requirements	77			Major Requirements	79
		Electives	7			Electives	8
		Total number of hours required for major	89			Total number of hours required for major	91
		Total number of hours required for degree	120			Total number of hours required for degree	120

8. Explanation of the Change:

The MLS program requests several changes to the on-campus curriculum to update the curriculum, eliminating content that is no longer needed and adding content necessary for contemporary practice.

- MLS 301 Hematology I will be increased from 3 to 4 credits to add new content related to hematology.
- MLS 311 Clinical Chemistry I will be reduced from 4 to 3 credits, with some content that should be taught later moved to MLS 411 Clinical Chemistry II to balance the content.
- MLS 412-412L Laboratory Methods and Lab will be renamed *Laboratory Safety and Phlebotomy and Lab*, with an updated course description to better reflect the revised content in these areas.
- Laboratory operations have been recognized as an area of need in the curriculum, leading to the creation of a new 2-credit course, MLS 310 Laboratory Operations. Relevant content from MLS 403L Diagnostic Immunology Lab, which is being phased out, and MLS 461 Introduction to Management and Education will be incorporated into this new course. MLS 461 will continue to be included in the on-campus curriculum but will be renamed *Leadership & Education in the Medical Laboratory* with a new course description to reflect updated content.
- The on-campus curriculum will conclude with MLS 483 Senior Capstone Clinical Experience; however, this course will be renamed *Medical Laboratory Capstone*, featuring a new course description and variable credit options, allowing it to serve as the final course for all MLS pathways. The course will remain at 3 credits in this plan of study.