



SOUTH DAKOTA BOARD OF REGENTS ACADEMIC AFFAIRS FORMS

Substantive Program Modification Form

UNIVERSITY:	USD
CURRENT PROGRAM TITLE:	Medical Laboratory Science, B.S.
CIP CODE:	51.1005
UNIVERSITY DEPARTMENT:	Medical Laboratory Science
UNIVERSITY DIVISION:	School of Health Sciences

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.

Elizabeth M. Freeburg

Vice President of Academic Affairs or
President of the University

10/15/18

Date

1. This modification addresses a change in:

- | | |
|---|--|
| <input type="checkbox"/> Total credits required within the discipline | <input type="checkbox"/> Total credits of supportive course work |
| <input type="checkbox"/> Total credits of elective course work | <input checked="" 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) |

2. Effective date of change: Fall 2019

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:

Reminder: Name changes may require updating related articulation agreements, site approvals, etc.

6. Primary Aspects of the Modification (add lines or adjust cell size as needed):

Existing Curriculum

Proposed Curriculum (highlight changes)

Prof.	Num	Title	Cr. Hrs.	Prof.	Num	Title	Cr. Hrs.
System General Education Requirements				System General Education Requirements			
SGR 1: Written Communication				SGR 1: Written Communication			
ENGL	101	Composition I OR	3	ENGL	101	Composition I OR	3
UHON	110	Honors English		UHON	110	Honors English	
SGR 2: Oral Communication				SGR 2: Oral Communication			
SGR 3: Social Science				SGR 3: Social Science			
BOR approved course				BOR approved course			
SGR 4: Fine Arts and Humanities				SGR 4: Fine Arts and Humanities			
Humanities Course/Fine Arts Course				Humanities Course/Fine Arts Course			
SGR 5: Quantitative Literacy				SGR 5: Quantitative Literacy			
SGR 6: Sciences				SGR 6: Sciences			
BOR approved lab science course PHGY 220/L				BOR approved lab science course PHGY 220/L			
			Subtotal				Subtotal
			18(-3)				18(-3)
Institution designated general education requirements				Institution designated general education requirements			
Advanced composition course (in addition to SGR #1)				Advanced composition course (in addition to SGR #1)			
Additional 100/200 course in another discipline from SGR #3				Additional 100/200 course in another discipline from SGR #3			
Course from Fine Arts/Humanities not selected for SGR #4				Course from Fine Arts/Humanities not selected for SGR #4			
Additional 100/200 lab science course SGR #6 PHGY 230/L				Additional 100/200 lab science course SGR #6 PHGY 230/L			
			Subtotal				Subtotal
			12 (-3)				12 (-3)
General Education credits minus double count reduction:				General Education credits minus double count reduction:			
30 (-6)				30 (-6)			
*University specific requirements				*University specific requirements			
Medical Laboratory Science, B.S.				Medical Laboratory Science, B.S.			
MLS	111	Introduction to Medical Lab Science	1	MLS	111	Introduction to Medical Lab Science	1
MLS	228	Medical Laboratory Parasitology	2	MLS	228	Medical Laboratory Parasitology	2
				MLS	239	Clin Quality/Data to Decisions	2
				MLS	325	Medical Lab Molecular Diagnostics and Genetics	3
MLS	331	Intro to Medical Lab Procedures I	3	MLS	331	Introduction to Hematology and Hemostasis in the Medical Laboratory	3
				MLS	331L	Intro to Hematology and Hemostasis Lab	1
MLS	332	Intro to Medical Lab Procedures II	3	MLS	332	Intro to Medical Lab Procedures	3
			Subtotal				Subtotal
			9				15
MLS 439-449 (Senior Clinical Year) Select 37-38 hours from the courses below:				MLS 439-449 (Senior Clinical Year) Select 37-38 hours from the courses below:			
MLS	439	Clinical Chemistry	9-12	MLS	439	Clinical Chemistry	9-12
MLS	442	Clinical Microbiology	8-11	MLS	442	Clinical Microbiology	8-11
MLS	444	Hematology	6-9	MLS	444	Hematology	6-9
MLS	445	Clinical Microscopy	1-3	MLS	445	Clinical Microscopy	1-3
MLS	446	Immunology (Serology)	2-4	MLS	446	Immunology (Serology)	2-4
MLS	447	Immunoematology	5-7	MLS	447	Immunoematology	5-7
MLS	448	Introduction to Laboratory Management	0-4	MLS	448	Introduction to Laboratory Management	0-4
MLS	449	Introduction to MLS Education	0-1	MLS	449	Introduction to MLS Education	0-1
			Subtotal				Subtotal
			37-38				37-38
Nondepartmental Requirements				Nondepartmental Requirements			
BIOC	310/L	Biological Chemistry/Lab	5	BIOC	310/L	Biological Chemistry/Lab	5
BIOL	151/L	General Biology I/Lab	4	BIOL	151/L	General Biology I/Lab	4
BIOL	153/L	General Biology II/Lab	4	BIOL	153/L	General Biology II/Lab	4
CHEM	112/L	General Chemistry I/Lab	4	CHEM	112/L	General Chemistry I/Lab	4
Select one of the following:				Select one of the following:			
CHEM	114/L	General Chemistry II/Lab	4	CHEM	114/L	General Chemistry II/Lab	4
CHEM	116/L	Honors Principles of Chemistry/Lab		CHEM	116/L	Honors Principles of Chemistry/Lab	

CHEM	326/L	Organic Chemistry I/Lab	5	CHEM	326/L	Organic Chemistry I/Lab	5
MICR	418	Fundamentals of Immunology	2	MICR	418	Fundamentals of Immunology	2
MICR	420	Microbiology and Infectious Diseases	4	MICR	420	Microbiology and Infectious Diseases	4
MICR	422	Microbiology and Infectious Diseases Lab	1	MICR	422	Microbiology and Infectious Diseases Lab	1
PHGY	220/L	Human Physiology and Integrated Anatomy I [SGR #6]	4	PHGY	220/L	Human Physiology and Integrated Anatomy I [SGR #6]	4
PHGY	230/L	Human Physiology and Integrated Anatomy II [SGR #6]	4	PHGY	230/L	Human Physiology and Integrated Anatomy II [SGR #6]	4
Subtotal			40	Subtotal			40
Free Electives				Free Electives			
Free Electives			10	Free Elective			3-4
Cross-curricular skills:				Cross-curricular skills:			
<ul style="list-style-type: none"> • inquiry and analysis • critical and creative thinking • information literacy • teamwork and problem solving • integrative learning 				<ul style="list-style-type: none"> • inquiry and analysis • critical and creative thinking • information literacy • teamwork and problem solving • integrative learning 			
Total number of hours required for major, minor, or specialization			86-87	Total number of hours required for major, minor, or specialization			92-93
Total number of hours required for degree			120	Total number of hours required for degree			120

7. Explanation of the Change:

Due to increasing demands of Medical Laboratory Scientists, clinical internship programs are raising their prerequisite requirements. In order to best prepare USD MLS students to meet these increased standards, USD MLS will make the following changes:

- MLS 239 will move from a recommended course to a required course.
- MLS 325, Medical Laboratory Molecular Diagnostics and Genetics, is a new course that is proposed in order to prepare MLS students for the trend that is being seen in the clinical setting of increased molecular and genetic testing.
- MLS 331, has a proposed name and course description change to better reflect the content of the course, as well as the addition of a lab to promote student understanding of the procedures necessary for hematological testing in the clinical setting.