# YOUR SOUTH DAKOTA BOARD OF RECENTS PUBLIC UNIVERSITIES & SPECIAL SCHOOLS

## SOUTH DAKOTA BOARD OF REGENTS

### **ACADEMIC AFFAIRS FORMS**

# Substantive Program Modification Program

UNIVERSITY:	SDSU
<b>CURRENT PROGRAM TITLE:</b>	Medical Laboratory Science (B.S.)
CIP CODE:	51.1005
UNIVERSITY DEPARTMENT:	Pharmacy & Allied Health Professions
BANNER DEPARTMENT CODE:	SPAH
UNIVERSITY DIVISION:	Pharmacy & Allied Health Professions
BANNER DIVISION 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.

Vice President of Academic Affairs		Date		
President of the University				
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1. This modification addresses a change in:				
☐ Total credits required within the discipline		Total credits of sup	portive course work	
☐ Total credits of elective course work		Total credits requir	ed for program	
☐ Program name		Existing specializat	tion	
☐ CIP Code	$\boxtimes$	Other: Addition of	an Accelerated Option	
2. Effective date of change: 2020-2021 Academ	nic Yea	r	-	
3. Program Degree Level: Associate □ Bach	ielor's [	⊠ Master's □	Doctoral $\square$	
<b>1.</b> Category: Certificate $\square$ Specialization $\square$	Mino	or □ Major ⊠		
5. If a name change is proposed, the change wil		•		
☐ On the effective date for all students				
☐ On the effective date for students new to the	e progi	am (enrolled studen	ts will graduate from	
existing program)	1 0	`	C	
Proposed new name:				

### 6. Primary Aspects of the Modification:

Existing Curriculum Proposed Curriculum (highlight changes)

Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
System General Education Requirements		33	System General Education Requirements			33	
ENGL	101	Composition I (SGR #1)	3	ENGL	101	Composition I (SGR #1)	3
ENGL	201	Composition II (SGR #1)	3	ENGL	201	Composition II (SGR #1)	3
SPCM	101	Fundamentals of Speech (SGR #2)	3	SPCM	101	Fundamentals of Speech (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
MATH	114	College Algebra (SGR #5)	3	MATH	114	College Algebra (SGR #5)	3
CHEM	106-106L	Chemistry Survey I & Lab (SGR #6)	4	CHEM	106-106L	Chemistry Survey I & Lab (SGR #6)	4

Proposed Curriculum (highlight changes) Existing Curriculum Pref. Num. **Title** Cr. Hrs. Pref. Num. Title Cr. Hrs. 108-108L **CHEM** 108-108L Chemistry Survey II & Lab (SGR 5 CHEM Chemistry Survey II & Lab (SGR 5 Major Requirements 80 Major Requirements **80-82** MLS 201 Understanding Medical Laboratory 2 MLS 201 **Understanding Medical Laboratory** 2 Science Science **BIOL** 221-221L Anatomy and Lab 4 **BIOL** 221-221L Anatomy and Lab 4 Physiology and Lab Physiology and Lab **BIOL** 325-325L 4 **BIOL** 325-325L 4 231-231L General Microbiology and Lab 4 **MICR** Accelerated program students only OR **MICR** 233-233L **Introductory Microbiology and Lab** Accelerated program students only 301-301L Hematology I and Lab MLS 301-301L Hematology I and Lab **MLS** 2, 1 2, 1 Clinical Chemistry I Clinical Chemistry I MLS **MLS** 311 4 311 4 Diagnostic Microbiology I and Lab Diagnostic Microbiology I and Lab MLS 341-341L 3, 2 **MLS** 341-341L **3**, 2 Accelerated program students do not take this lab 401 Hematology II and Hemostasis 3 MLS 401 Hematology II and Hemostasis 3 MLS Advanced Hematology/Hemostasis Advanced Hematology/Hemostasis 402L 1 402L MLS **MLS** 1 Lab Lab Diagnostic Immunology and Lab Diagnostic Immunology and Lab MLS 403-403L 3. 1 MLS 403-403L **3**, 1 Accelerated program students do not take this lab Clinical Chemistry II and Lab Clinical Chemistry II and Lab MLS 411-411L 3, 1 MLS 411-411L 3, 1 Laboratory Methods and Lab MLS 412-412L 3.1 **MLS** 412-412L Laboratory Methods and Lab  $\frac{3}{1}$ Accelerated program students do not take this lab Immunohematology and Lab MLS 431-431L Immunohematology and Lab 2, 1 **MLS** 431-431L **2**, 1 Accelerated program students do not take this lab Diagnostic Microbiology II and Lab MLS 441-441L Diagnostic Microbiology II and Lab 3, 2 MLS 441-441L 3, 2 Immunohematology II and Lab Immunohematology II and Lab 451-451L 2, 1 MLS 451-451L MLS 2, 1 Intro. To Management and Intro. To Management and MLS 461 3 MLS 461 3 Education Education 471-471L Advanced Medical Diagnostics and  $2, \overline{2}$ MLS 471-471L Advanced Medical Diagnostics and MLS 2, 2 Advanced Clinical Experience I MLS 472 8 MLS 472 Advanced Clinical Experience I 8 473 Advanced Clinical Diagnostics I 3 473 Advanced Clinical Diagnostics I **MLS** MLS 3 Advanced Clinical Diagnostics II Advanced Clinical Diagnostics II **MLS** 474 3 MLS 474 3 Advanced Clinical Experience II Advanced Clinical Experience II 475 3 475 MLS **MLS** 3 Senior Capstone Clinical Experience Senior Capstone Clinical Experience MLS 483 3 **MLS** 483 3 Phlebotomy Clinical Experience Phlebotomy Clinical Experience MLS 489 1 MLS 489 1 Introduction to Statistics STAT 281 **Introduction to Statistics** STAT 281 3 3 Electives (Additional elective credits needed to reach 120 **Electives** (Additional elective credits needed to reach 120 8-10 credits) credits) Summary of Credits Medical Laboratory Science (B.S.) **System General Education Requirements System General Education Requirements** 33 33 **Major Requirements** Major Requirements 80 80 Electives Electives 10 Summary of Credits Medical Laboratory Science (B.S.) - Accelerated Program **System General Education Requirements 33 Major Requirements** 82 Electives 8 Total number of hours required for major Total number of hours required for major 80 80-82

#### Medical Laboratory Science Accelerated Program admission requirements:

Total number of hours required for degree

Admission to the Medical Laboratory Science Accelerated Program will require:

120

Total number of hours required for degree

120

- Completion of all system general education requirements
- Completed coursework in anatomy, physiology, general or introductory microbiology with a lab, and CHEM 106 and CHEM 108 or equivalent
- Completion of a minimum of 90 credits of coursework

#### 7. Explanation of the Change:

This request will add an accelerated option for the B.S. degree in Medical Laboratory Science. The Department of Allied and Population Health currently offers an on-campus B.S. in Medical Laboratory Science (MLS) program as well as an online Upward Mobility program for Medical Laboratory Technicians to the B.S. degree. The proposed accelerated program would allow students with the necessary prerequisites to complete their degree more quickly and enter the workforce in a shorter period of time. Students that complete the accelerated program will either be almost complete with another bachelor's degree (double major) or have completed a bachelor's degree. The accelerated MLS program will utilize online MLS courses, campus lab experiences (completed over the summer), and clinical experiences completed at clinical partner sites. The program will use existing MLS courses, and no new courses will be created. General or introductory microbiology coursework is being added to the admission requirements for the accelerated program so students will not need to take those courses and labs within the program.

This program is needed to address a workforce shortage for medical laboratory scientists. According to the U.S. Bureau of Labor and Statistics, employment of clinical laboratory technologists and technicians is projected to grow 11 percent from 2018 to 2028, much faster than the average for all occupations. There is also a shortage of medical laboratory scientists in South Dakota. Dialogue with SDSU's clinical partners has revealed that health systems in South Dakota are in significant need of more medical laboratory scientists; due to the shortage, the major health systems in the state have had to start hiring traveling technologists. The accelerated MLS program would provide a more accessible program completed over a short timeframe and allow SDSU to graduate medical laboratory scientists twice a year. This program has significant appeal to SDSU's health partners by helping address this critical workforce need.