



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

**Institutional Substantive Program Modification Requests**

**Institution:** University of South Dakota **Date:** 10/25/2018

Institutional representatives should provide direct links to PDF documents for each of the program modification requests represented below. All requests should be posted on the campus Curriculum and Instruction website one week prior to the Academic Affairs Council meeting where the program modification request is being considered.

<i>Program Title</i>	<i>Approval</i>
<a href="#">Health Sciences, B.S.</a> with no specialization and Paramedic specialization	PT
<a href="#">Medical Laboratory Sciences, B.S.</a>	JP
<a href="#">Sustainability, M.S.</a> -Add accelerated track <i>(Note: Also approved at December 2018 BOR meeting)</i>	PT

Program modifications referenced above for approval have been reviewed by the Academic Affairs Council and the System Vice President for Academic Affairs and may be advanced forward for entry in Colleague. For those program modifications listed above that did not receive approval, additional clarification or justification will be necessary and should be re-routed through the review process on a separate "Institutional Substantive Program Modification Requests" form once all issues have been resolved.

Signature: System Vice President for Academic Affairs

12/13/2018

Date

Signature: Interim System Vice President for Academic Affairs

2/11/2019

Date



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

**Substantive Program Modification Form**

<b>UNIVERSITY:</b>	<b>University of South Dakota</b>
<b>CURRENT PROGRAM TITLE:</b>	<b>Bachelor of Science in Health Sciences</b>
<b>CIP CODE:</b>	<b>51.0000</b>
<b>UNIVERSITY DEPARTMENT:</b>	<b>Health Sciences department</b>
<b>UNIVERSITY DIVISION:</b>	<b>School of Health Sciences</b>

**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

10/15/18

Vice President of Academic Affairs or  
President of the University

Date

**1. This modification addresses a change in:**

- Total credits required within the discipline
- Total credits of elective course work
- Program name
- CIP Code
- Total credits of supportive course work
- Total credits required for program
- Existing specialization (Paramedic specialization)
- Other (explain below)

**2. Effective date of change (enter catalog year):** 2019-2020

**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:

<i>(Curriculum As Requested on Minor Program Modification Form)</i>				<i>Bachelor of Science in Health Sciences with No Specialization</i>			
<i>Existing Curriculum</i>				<i>Proposed Curriculum (highlight changes)</i>			
Prof.	Num	Title	Cr. Hrs	Prof.	Num.	Title	Cr. Hrs
<b>Health Sciences, B.S.-No Specialization</b>				<b>Health Sciences, B.S.-No Specialization</b>			
HSC	110	The Interprofessional Team	3*	HSC	110	The Interprofessional Team	3*
<b>*Health Career Advancement Studies Students will select one HSC 3 credit hour elective in place of HSC 110</b>				<b>*Health Career Advancement Studies Students will select one HSC 3 credit hour elective in place of HSC 110</b>			
HSC	305	Professional Communication and Relationship-Centered Care	3	HSC	305	Professional Communication and Relationship-Centered Care	3
HSC	310	Health Care Delivery	3	HSC	310	Health Care Delivery	3
HSC	315	Introduction to Public Health	3	HSC	315	Introduction to Public Health	3
HSC	350	Principles of Health Care	3	HSC	350	Principles of Health Care	3
HSC	360	Technology in Care Delivery	3	HSC	360	Technology in Care Delivery	3
HSC	380	Health Literacy and Culture Care	3	HSC	380	Health Literacy and Culture Care	3
HSC	450	Patient Safety-Quality Improvement	3	HSC	450	Patient Safety-Quality Improvement	3
HSC	460	Leading Change	3	HSC	460	Leading Change	3
<b>Departmental Requirements</b>			<b>27</b>	<b>Departmental Requirements</b>			<b>27</b>
<b>Select one of the following science sequences (8 cr.)</b>				<b>Select one of the following science sequences (8 cr.)</b>			
PHGY	220/ 220L	Human Physiology and Integrated Anatomy I [SGR #6]	8	PHGY	220/ 220L	Human Physiology and Integrated Anatomy I [SGR #6]	8
PHGY	230/ 230L	Human Physiology and Integrated Anatomy II [SGR #6]		PHGY	230/ 230L	Human Physiology and Integrated Anatomy II [SGR #6]	
<b>or</b>				<b>or</b>			
HSC	280/ 280L	Essentials of Human Anatomy and Physiology		HSC	280/ 280L	Essentials of Human Anatomy and Physiology	
HSC	281	Human Disease		HSC	281	Human Disease	
<b>Health Sciences Majors select one of the following courses (3 cr.) For students opting to complete the Paramedic Specialization, select courses at the 300 or 400 level.</b>				<b>Revised configuration below</b>			
HSAD	325	Gerontology and Long Term Care	3				
HSC	325	Global Health					
HSC	330	Native People's Health Care, Promotion and Policy					
NATV	330	Native People's Health Care, Promotion and Policy					
HSC	375	The United States and Global Healthcare Systems					
HSC	400	Clinical Analytics					
<b>Select one of the following courses (3 cr.) For students opting to complete the Paramedics Specialization, select courses at the 300 or 400 level.</b>				<b>Revised below</b>			
ADS	412	Study of Alcohol Use and Abuse	3				
ADS	415	Study of Drug Use and Abuse					
HSC	275	Comparative Cultures, Theory and Leadership in Healthcare					
HSC	320	Introduction to Epidemiology					
HSC	475	Process & Outcomes Evaluation					
<b>Select one of the following courses (3 cr.) For students opting to complete the Paramedics Specialization, select courses at the 300 or 400 level.</b>				<b>Revised below</b>			
SPAN	120	Medical Spanish I	3				
HSC	250	Healthcare Term. in the Clinical Setting					
HSC	370	Computerized Medical Records & Regulatory Compliance					
HSC	440	Major Issues in Health & Human Services					

				<b>Select three of the following courses (9 credit hours total) or select a major track with a Health Sciences Specialization.</b>				
				HSC	111	Introduction to Research	3	
				SPAN	120	Medical Spanish I	3	
				SPAN	121	Medical Spanish II	3	
				HSC	222	Undergraduate Research I	3	
				HSC	250	Healthcare Terms in the Clinical Setting	3	
				HSC	262	Health Careers Exploration	3	
				HSC	275	Comparative Cultures, Theory, and Leadership (Travel)	3	
				HSC	306	Spanish for Healthcare Workers	3	
				HSC	312	Undergraduate Research II	3	
				HSC	320	Introduction to Epidemiology	3	
				HSC	325	Global Health	3	
				HSC	330	Native People's Health Care, Promotion, and Policy	3	
				NATV	330	Native People's Health Care, Promotion, and Policy	3	
				HSC	340	Interprofessional Approach to Person-Centered Care	3	
				HSC	365	Universal Supports in Disability Services	3	
				HSC	370	Computerized Medical Record & Regulatory Compliance	3	
				HSC	385	Introduction to and History of Disability	3	
				HSC	400/500	Clinical Analytics	3	
				PHIL	430/530	Public Health Ethics and Policy	3	
				PUBH	430/530	Public Health Ethics and Policy	3	
				HSC	440/540	Major Issues in Health and Human Services	3	
				HSC	475	Process and Outcome Evaluation	3	
				HSC	494	Internship	1-12	
				HSC	498	Undergraduate Research/Scholarship (C)	1-6	
				<b>Subtotal Electives:</b>				<b>9</b>
<b>Additional Major Requirements (17 hours)</b>			<b>17</b>	<b>Additional Major Requirements (17 hours)</b>			<b>17</b>	
Total number of hours required for major with No specialization (27+17):			<b>44</b>	Total number of hours required for major with No specialization			<b>44</b>	

<i>(Curriculum As Requested on Minor Program Modification Form)</i>				<i>Bachelor of Science in Health Sciences with Paramedic Specialization</i>			
<i>Existing Curriculum</i>				<i>Proposed Curriculum (highlight changes)</i>			
Pref.	Num	Title	Cr. Hrs	Pref.	Num.	Title	Cr. Hrs
<b>Health Sciences, B.S.-Core</b>				<b>Health Sciences, B.S.-Core</b>			
HSC	110	The Interprofessional Team	3*	HSC	110	The Interprofessional Team	3*
<b>*Health Career Advancement Studies Students will select one HSC 3 credit hour elective in place of HSC 110</b>				<b>*Health Career Advancement Studies Students will select one HSC 3 credit hour elective in place of HSC 110</b>			
HSC	305	Professional Communication and Relationship-Centered Care	3	HSC	305	Professional Communication and Relationship-Centered Care	3
HSC	310	Health Care Delivery	3	HSC	310	Health Care Delivery	3
HSC	315	Introduction to Public Health	3	HSC	315	Introduction to Public Health	3
HSC	350	Principles of Health Care	3	HSC	350	Principles of Health Care	3
HSC	360	Technology in Care Delivery	3	HSC	360	Technology in Care Delivery	3
HSC	380	Health Literacy and Culture Care	3	HSC	380	Health Literacy and Culture Care	3

HSC	450	Patient Safety-Quality Improvement	3
HSC	460	Leading Change	3
<b>Departmental Requirements</b>			<b>27</b>
<b>Select one of the following science sequences (8 cr.)</b>			
PHGY	220/ 220L	Human Physiology and Integrated Anatomy I [SGR #6]	8
PHGY	230/ 230L	Human Physiology and Integrated Anatomy II [SGR #6]	
or			
HSC	280/ 280L	Essentials of Human Anatomy and Physiology	
HSC	281	Human Disease	
<b>Subtotal Science sequence:</b>			<b>8</b>
<b>Subtotal Core courses:</b>			<b>35</b>
<b>Health Sciences Majors select one of the following courses (3 cr.) For students opting to complete the Paramedic Specialization, select courses at the 300 or 400 level.</b>			
HSAD	325	Gerontology and Long Term Care	3
HSC	325	Global Health	
HSC	330	Native People's Health Care, Promotion and Policy	
NATV	330	Native People's Health Care, Promotion and Policy	
HSC	375	The United States and Global Healthcare Systems	
HSC	400	Clinical Analytics	
<b>Select one of the following courses (3 cr.) For students opting to complete the Paramedics Specialization, select courses at the 300 or 400 level.</b>			
ADS	412	Study of Alcohol Use and Abuse	3
ADS	415	Study of Drug Use and Abuse	
HSC	275	Comparative Cultures, Theory and Leadership in Healthcare	
HSC	320	Introduction to Epidemiology	
HSC	475	Process & Outcomes Evaluation	
<b>Select one of the following courses (3 cr.) For students opting to complete the Paramedics Specialization, select courses at the 300 or 400 level.</b>			
SPAN	120	Medical Spanish I	3
HSC	250	Healthcare Term. in the Clinical Setting	
HSC	370	Computerized Medical Records & Regulatory Compliance	
HSC	440	Major Issues in Health & Human Services	
<b>Paramedic Specialization (Optional)</b>			
The new specialization is optional, however, students wishing to add the specialization must:			
1. have instructor/Health Sciences permission due to need for certification requirements (BLS for healthcare provider and EMT-B certification)			
2. be admitted to the Sanford Paramedics Program			
In order to meet the degree requirement of completing a minimum of 30 cr. hrs. at the 300 and 400 level, when presented with a choice of courses in the Health Sciences major, paramedic students must select upper-level coursework.			
HSC	100	Intro to Advanced Life Support	1

HSC	450	Patient Safety-Quality Improvement	3
HSC	460	Leading Change	3
<b>Departmental Requirements</b>			<b>27</b>
<b>Select one of the following science sequences (8 cr.)</b>			
PHGY	220/ 220L	Human Physiology and Integrated Anatomy I [SGR #6]	8
PHGY	230/ 230L	Human Physiology and Integrated Anatomy II [SGR #6]	
or			
HSC	280/ 280L	Essentials of Human Anatomy and Physiology	
HSC	281	Human Disease	
<b>Subtotal Science sequence:</b>			<b>8</b>
<b>Subtotal Core courses:</b>			<b>35</b>
<b>Delete [Removed required courses from Paramedic Specialization-Revised specialization courses (300/400 level coursework now part of specialization, this is no longer needed)]</b>			
<b>delete</b>			
<b>Paramedic Specialization (Optional)</b>			
The <b>Paramedic Specialization</b> is optional, however, students wishing to add the specialization must:			
1. have instructor/Health Sciences permission due to need for certification requirements (BLS for healthcare provider and EMT-B certification)			
2. be admitted to the Sanford Paramedics Program			
3. meet the degree requirement of completing a minimum of 30 cr. hrs. at the 300 and 400 level.			
HSC	100	Intro to Advanced Life Support	1

HSC	101	Emergency Medical Services Anatomy & Physiology	2	HSC	101	Emergency Medical Services Anatomy & Physiology	2
HSC	102	Emergency Medical Services Clinical I	2	HSC	102	Emergency Medical Services Clinical I	2
HSC	201	Advanced Airway Management	2	HSC	201	Advanced Airway Management	2
HSC	205	Patient Assessment	3	HSC	205	Patient Assessment	3
HSC	210	Emergency Med. Services Pharmacology	2	HSC	210	Emergency Med. Services Pharmacology	2
HSC	210L	Emergency Med. Serv. Pharmacology Lab	2	HSC	210L	Emergency Med. Services Pharmacology Lab	2
HSC	211	Emergency Medical Services Clinical II	3	HSC	211	Emergency Medical Services Clinical II	3
HSC	240	Medical Emergencies I	2	HSC	240	Medical Emergencies I	2
HSC	240L	Medical Emergencies I Lab	1	HSC	240L	Medical Emergencies I Lab	1
HSC	241	Medical Emergencies II	2	HSC	241	Medical Emergencies II	2
HSC	241L	Medical Emergencies II Lab	1	HSC	241L	Medical Emergencies II Lab	1
HSC	244	Cardiac Emergencies	3	HSC	300	Cardiac Emergencies	3
HSC	246	Emergency Med. Services Clinical III	2	HSC	246	Emergency Med. Services Clinical III	2
HSC	254	Trauma Emergencies	3	HSC	254	Trauma Emergencies	3
HSC	254L	Trauma Emergencies Laboratory	1	HSC	254L	Trauma Emergencies Laboratory	1
HSC	264	Emergency Medical Services Clinical IV	2	HSC	264	Emergency Medical Services Clinical IV	2
HSC	265	Emergency Medical Services Operations	3	HSC	304	Emergency Medical Services Operations	3
HSC	270	Paramedic Professional Development	1	HSC	308	Paramedic Professional Development	1
HSC	270L	Paramedic Profess. Development Lab	2	HSC	308L	Paramedic Profess. Development Lab	2
HSC	296	Paramedic Field Experience	3	HSC	396	Paramedic Field Experience	3
<b>Paramedic Specialization</b>			<b>43</b>	<b>Paramedic Specialization</b>			<b>43</b>
<b>Free Electives</b> (in order for this specialization to not exceed 120 hours one optional course must be selected for 3 credit hours that counts twice for gen eds. Examples PHGY 220/230 [SGR #6], HSC 375 [G,W], HSC 440 [G, W], and SPCM 440 [W].)				<b>Free Electives</b> (in order for this specialization to not exceed 120 hours one optional course must be selected for 3 credit hours that counts twice for gen eds. Examples PHGY 220/230 [SGR #6], HSC 375 [G,W], HSC 440 [G, W], and SPCM 440 [W].)			
*Minimum of 30 credit hours must be taken from USD.				*Minimum of 30 credit hours must be taken from USD.			
* Maximum of 90 transfer credit hours may be applied to the degree.				* Maximum of 90 transfer credit hours may be applied to the degree.			
Total number of hours required for major with Paramedic specialization			<b>44+43</b>	Total number of hours required for major with Paramedic specialization			<b>35 + 43</b>
Total number of hours required for degree			<b>120</b>	Total number of hours required for degree			<b>120</b>

## 7. Explanation of the Change:

The health sciences major is beginning its 10th year of implementation. There have been dramatic changes in health care since inception in 2009 and this modification request reflects the changing needs. The planned program change provides students greater choice in coursework to meet the required major electives, including the choice of specializations that address changing needs/demands.

Changes in this Substantive Program Modification Request include:

1. Students completing the standard curriculum without an area of specialization will now choose nine (9 credit hours) from a list of courses giving them the opportunity to select coursework that meets areas of interest.
2. Students completing a specialization will not be required to take the nine (9) credits of major electives. Coursework completed in the specialization will satisfy the major elective requirements.
3. Four courses in the Paramedic Specialization were revised to 300 level numbers (nine credits) to better reflect the level of responsibility associate with those courses. This also assures students completing the Paramedic Specialization can meet the upper division requirements established to graduate.



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

**Substantive Program Modification Form**

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

**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:**

- Total credits required within the discipline
- Total credits of elective course work
- Program name
- CIP Code
- Total credits of supportive course work
- Total credits required for program
- Existing specialization
- 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)*

Pref.	Num	Title	Cr. Hrs.	Pref.	Num	Title	Cr. Hrs.
<b>System General Education Requirements</b>				<b>System General Education Requirements</b>			
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			
			<b>Subtotal</b>				<b>Subtotal</b>
			<b>18(-3)</b>				<b>18(-3)</b>
<b>Institution designated general education requirements</b>				<b>Institution designated general education requirements</b>			
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			
			<b>Subtotal</b>				<b>Subtotal</b>
			<b>12 (-3)</b>				<b>12 (-3)</b>
<b>General Education credits minus double count reduction:</b>				<b>General Education credits minus double count reduction:</b>			
<b>30 (-6)</b>				<b>30 (-6)</b>			
<b>*University specific requirements</b>				<b>*University specific requirements</b>			
<b>Medical Laboratory Science, B.S.</b>				<b>Medical Laboratory Science, B.S.</b>			
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
			<b>Subtotal</b>				<b>Subtotal</b>
			<b>9</b>				<b>15</b>
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
			<b>Subtotal</b>				<b>Subtotal</b>
			<b>37-38</b>				<b>37-38</b>
<b>Nondepartmental Requirements</b>				<b>Nondepartmental Requirements</b>			
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
<b>Subtotal</b>			<b>40</b>	<b>Subtotal</b>			<b>40</b>
<b>Free Electives</b>				<b>Free Electives</b>			
Free Electives			10	Free Elective			3-4
Cross-curricular skills:				Cross-curricular skills:			
<ul style="list-style-type: none"> <li>• inquiry and analysis</li> <li>• critical and creative thinking</li> <li>• information literacy</li> <li>• teamwork and problem solving</li> <li>• integrative learning</li> </ul>				<ul style="list-style-type: none"> <li>• inquiry and analysis</li> <li>• critical and creative thinking</li> <li>• information literacy</li> <li>• teamwork and problem solving</li> <li>• integrative learning</li> </ul>			
Total number of hours required for major, minor, or specialization			<b>86-87</b>	Total number of hours required for major, minor, or specialization			<b>92-93</b>
Total number of hours required for degree			<b>120</b>	Total number of hours required for degree			<b>120</b>

## 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.



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

**Substantive Program Modification Form**

<b>UNIVERSITY:</b>	<b>University of South Dakota</b>
<b>CURRENT PROGRAM TITLE:</b>	<b>Sustainability, MS</b>
<b>CIP CODE:</b>	<b>30.3301</b>
<b>UNIVERSITY DEPARTMENT:</b>	<b>Sustainability &amp; Environment</b>
<b>UNIVERSITY DIVISION:</b>	<b>College of Arts &amp; Sciences</b>

**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 10/18/18  
 Vice President of Academic Affairs or Date  
 President of the University

**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 type="checkbox"/> Total credits required for program                                       |
| <input type="checkbox"/> Program name                                 | <input type="checkbox"/> Existing specialization  |
| <input type="checkbox"/> CIP Code                                     | <input checked="" type="checkbox"/> Other (explain below) – addition of accelerated degree option |

**2. Effective date of change (enter catalog year):** 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):**

<i>Existing Curriculum</i>				<i>Proposed Curriculum (highlight changes)</i>			
Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
<b>Plan A (thesis)</b>				<b>Plan A (thesis)</b>			
SUST	705	Sustainability & Complexity	3	SUST	705	Sustainability & Complexity	3
SUST	715	Research for Sustainability	3	SUST	715	Research for Sustainability	3
SUST	790	Seminar	2-3	SUST	790	Seminar	2-3
SUST	794	Internship	0-3	SUST	794	Internship	0-3
SUST	798	Sustainability thesis	6-9	SUST	798	Sustainability thesis	6-9
Electives			9-18	Electives			9-18
Students will select elective courses from existing graduate-level courses with approval from the student's thesis committee. At least 50% of the total credits must be at the 700-level or above.				Students will select elective courses from existing graduate-level courses with approval from the student's thesis committee. At least 50% of the total credits must be at the 700-level or above.			
<b>Plan B (non-thesis)</b>				<b>Plan B (non-thesis)</b>			
SUST	705	Sustainability & Complexity	3	SUST	705	Sustainability & Complexity	3
SUST	715	Research for Sustainability	3	SUST	715	Research for Sustainability	3
SUST	790	Seminar	2	SUST	790	Seminar	2
SUST	794	Internship	3-6	SUST	794	Internship	3-6
Electives			18-21	Electives			18-21
Students will select elective courses from existing graduate-level courses with approval from the student's thesis committee. At least 50% of the total credits must be at the 700-level or above.				Students will select elective courses from existing graduate-level courses with approval from the student's thesis committee. At least 50% of the total credits must be at the 700-level or above.			
				<b>Accelerated Master's Program: B.A. or B.S. with M.S.</b>			
				Up to 12 graduate credits applied toward the B.A. or B.S. in sustainability may be used toward the M.S. in sustainability. The following restrictions apply:			
				a. Dual-listed courses taken at the 500-level can be applied to both the B.A./B.S. and M.S. degrees. Dual-listed courses must be taken at the 500-level.			
				b. The student must apply to, and be admitted to, the accelerated program prior to taking courses to be credited toward the accelerated program.			
				c. No courses taken prior to admission to the accelerated program may be counted toward an accelerated graduate degree.			
				d. Courses that are "double counted" must be approved by the program coordinator for inclusion in the program of study prior to taking the courses or the credits will not be applied toward the accelerated graduate degree.			
				e. Only courses taken from USD are eligible for dual credit.			
Total number of hours required for major			30 (Plan A) 32 (Plan B)	Total number of hours required for major			30 (Plan A) 32 (Plan B)
Total number of hours required for degree			30 (Plan A) 32 (Plan B)	Total number of hours required for degree			30 (Plan A) 32 (Plan B)

**7. Explanation of the Change:**

We are proposing to add an accelerated Master's program for sustainability undergraduate majors that is available for both the M.S. Plan A and M.S. Plan B options.