

## SOUTH DAKOTA BOARD OF REGENTS ACADEMIC AFFAIRS FORMS

## Substantive Program Modification Form

UNIV	ERSITY:	SDSU
CURI	RENT PROGRAM DEGREE:	Bachelor of Science (B.S.)
CURI	RENT PROGRAM MAJOR/MINOR:	Biology
CURI	RENT SPECIALIZATION:	Secondary Education Specialization
CIP C	CODE:	26.0101 – Major CIP
		13.1205 – Secondary Education
		Specialization
UNIV	ERSITY DEPARTMENT:	Biology & Microbiology
BANN	NER DEPARTMENT CODE:	SBIM
UNIV	ERSITY COLLEGE:	College of Natural Sciences
BANN	NER COLLEGE CODE:	3T
To the		tor: I certify that I have read this proposal, that aluated and approved as provided by university
	Dennis D. Hedge	4/3/2023
	Vice President of Academic Affairs	or Date
	President of the University	
1. Thi	s modification addresses a change in:	
	Total credits required within the discipline	
	Total credits of elective course work	☐ Total credits required for program
_	Program name	<ul><li>■ Existing specialization</li></ul>
	CIP Code	☐ Other (explain below)
_	Modification requiring Board of Regents a	•
	Must have prior approval from Executive I	<b>.</b> .
	ective date of change: 2023-2024 Academ	
	gram Degree Level:	
	Associate  ☐ Bachelor's  ☐	Master's □ Doctoral □
4. Cat	egorv:	
	Certificate ☐ Specialization ⊠	Minor □ Major □
5. If a	name change is proposed, the change wi	3
	On the effective date for all students	
		ne program (enrolled students will graduate from
	sting program)	- Lagram (emones areasma win Bragame Home
	posed new name:	
	T	

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

6.	Is the program	being modified	associated	with a current	articulation	agreement?
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No 🗵 Yes

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

## 7. Primary Aspects of the Modification:

		Existing Curriculum			Propos	ed Curriculum <mark>(Highlight Changes)</mark>	
Pref	Num	Title	Cr Hrs	Pref	Num	Title	(
Systom	Conoral	Education Doquiroment	32 34	Systom	Canaral	Education Doguiroment	

		Existing Curriculum	1		_	sea Curricuium (Higniight Changes)		
Pref	Num	Title	Cr Hrs	Pref	Num	Title	Cr Hrs	
		<b>Education Requirement</b>	32-34			al Education Requirement	<b>24-26</b>	
System	General	<b>Education Requirement – Electives</b>	12	<b>System</b>	Genera	al Education Requirement – Electives	<b>21</b>	
						SGR #1 Elective	<mark>3</mark>	
						SGR #1 Elective	3	
						SGR #2 Elective	3	
		SGR #3 Elective	3			SGR #3 Elective	3	
		SGR #3 Elective	3			SGR #3 Elective	3	
		SGR #4 Elective	3			SGR #4 Elective	3	
		SGR #4 Elective	3			SGR #4 Elective	3	
System	General	<b>Education Requirement – Required</b>	20-22			al Education Requirement – Required	<b>3-5</b>	
ENGL	101	Composition I (SGR #1)	3	ENGL	<del>101</del>	Composition I (SGR #1)	<mark>3</mark>	
ENGL	201	Composition II (SGR #1)	3	ENGL	<del>201</del>	Composition II (SGR #1)	2 2 3 3	
CMST	101	Fundamentals of Speech (SGR #2)	3	<b>CMST</b>	<del>101</del>	Fundamentals of Speech (SGR #2)		
MATH	115	Pre-Calculus or higher	3-5	MATH	115	Pre-Calculus or higher	3-5	
		Consult advisor as some professional				Consult advisor as some professional		
		schools require calculus.				schools require calculus.		
BIOL	151	General Biology I (SGR #6)	4	<b>BIOL</b>	<mark>151</mark>	General Biology I (SGR #6) (Major		
						Requirement)		
BIOL	151L	General Biology I Lab (SGR #6)	0	<b>BIOL</b>	151L	General Biology I Lab (SGR #6) (Major		
						Requirement)		
BIOL	153	General Biology II (SGR #6)	4	<b>BIOL</b>	153	General Biology II (SGR #6) (Major		
						Requirement)		
BIOL	153L	General Biology II Lab (SGR #6)	0	<b>BIOL</b>	153L	General Biology II Lab (SGR #6)		
						(Major Requirement)		
		quirements				equirements		
		redits must be upper division (300 and						
		the exception that MATH 125 and 225,				the exception that MATH 125 and 225,		
		nd III, may be counted as five credits				and H, may be counted as five credits		
	ard the to				a <del>rd the t</del>			
		t complete a minimum of 33 credits from		- Stud	<del>lents mu</del>	ust complete a minimum of 33 credits from		
		iences. Refer to departments offering the				sciences. Refer to departments offering the		
		ecific course listings.	=0 =1	0		<mark>pecific course listings.</mark>		
	Requiren		50-51	Major I			<b>55-56</b>	
BIOL	119	First Year Seminar	2	BIOL	119	First Year Seminar	2	
BIOL	151	General Biology I (SGR #6)		BIOL	151	General Biology I (SGR #6)	4	
BIOL	151L	General Biology I Lab (SGR #6)		BIOL	151L	General Biology I Lab (SGR #6)	0	
BIOL	153	General Biology II (SGR #6)		BIOL	153	General Biology II (SGR #6)	4	
BIOL	153L	General Biology II Lab (SGR #6)		BIOL	153L	General Biology II Lab (SGR #6)	0	
BIOL	202	Genetics and Organismal Biology	3	BIOL	202	Genetics and Organismal Biology	3	
BIOL	202L	Genetics and Organismal Biology Lab	1	BIOL	202L	Genetics and Organismal Biology Lab	1	
BIOL	204	Genetics and Cellular Biology	3	BIOL	204	Genetics and Cellular Biology	3	
BIOL	204L	Genetics and Cellular Biology Lab	1	BIOL	204L	Genetics and Cellular Biology Lab	1	
BIOL	290	Seminar	1	BIOL	290	Seminar	1	
CHEM	112	General Chemistry I	3	CHEM		General Chemistry I	3	
CHEM	112L	General Chemistry I Lab	1	CHEM		General Chemistry I Lab	1	
CHEM	114	General Chemistry II	3	CHEM		General Chemistry II	3	
CHEM	114L	General Chemistry II	1	CHEM	-	General Chemistry II	1	
CHEM	326	Organic Chemistry I	3	CHEM	-	Organic Chemistry I	3	
CHEM	326L	Organic Chemistry I Lab	1	CHEM	326L	Organic Chemistry I Lab	1	

Existing Curriculum Proposed Curriculum (Highlight Changes)

		Existing Curriculum				sed Curriculum <mark>(Highlight Changes)</mark>	
Pref	Num	Title	Cr Hrs	Pref	Num	Title	Cr Hrs
PHYS	101	Survey of Physics	4	PHYS	101	Survey of Physics	<mark>3</mark>
PHYS	101L	Survey of Physics Lab	0	PHYS	101L	Survey of Physics Lab	1
<b>ENGL</b>	379	Technical Communication – Biology	3	ENGL	<del>379</del>	Technical Communication - Biology &	<mark>≟</mark>
		& Microbiology				Microbiology	
MICR	233	Introductory Microbiology	4	MICR	233	Introductory Microbiology	<mark>3</mark>
MICR	233L	Introductory Microbiology Lab	0	MICR	233L	Introductory Microbiology Lab	1
		ry Education Specialization				ary Education Specialization	
Require				Requir			
BOT	201	General Botany	3	BOT	201	General Botany	3
BOT	201L	General Botany Lab	0	BOT	201L	General Botany Lab	0
BIOL	221	Human Anatomy	4	BIOL	221	Human Anatomy	4
BIOL	221L	Human Anatomy Lab	0	BIOL	221L	Human Anatomy Lab	0
BIOL	373	Evolution	3	BIOL	373	Evolution	3
NRM	311	Principles of Ecology	3	NRM	311	Principles of Ecology	3
		Select one of the following:	3-4			Select one of the following	3-4
		BIOL 326-326L Biomedical				BIOL 325-325L - Physiology & Lab	
		Physiology & Lab (3,1)				(4,0) BIOL 326-326L Biomedical Physiology	
		BIOL/PHIL 383 Bioethics (4)					
		CHEM 328-328L Organic Chemistry				& Lab (3,1)	
		II & Lab (3,1)				BIOL/PHIL 383 Bioethics (4) CHEM 328-328L Organic Chemistry II	
		NRM 200-200L Animal Diversity & Lab (4,0)				& Lab (3,1)	
		PHIL/REL 454 Environmental Ethics				NRM 200 200L Animal Diversity &	
		(3)				Lab (4,0)	
		(3)				PHIL/REL 454 Environmental Ethics	
						(3)	
Teachin	ng Specia	lization Requirements	37	Teachi	ng Speci	alization Requirements	37
<b>Teachin</b> AIS	Specia 211	llization Requirements South Dakota American Indian Culture	<b>37</b> 3	<b>Teachi</b> AIS	ng Speci 211	alization Requirements South Dakota American Indian Culture	<b>37</b> 3
		South Dakota American Indian Culture				South Dakota American Indian Culture	
AIS	211	South Dakota American Indian Culture and Education Exploration of Teaching and Learning Adolescent Development in	3	AIS	211	South Dakota American Indian Culture and Education	3
AIS EDFN EDFN	211 101 340	South Dakota American Indian Culture and Education Exploration of Teaching and Learning	3	AIS EDFN	101 340	South Dakota American Indian Culture and Education Exploration of Teaching and Learning Adolescent Development in Educational Contexts	3
AIS EDFN	211 101 340 351	South Dakota American Indian Culture and Education Exploration of Teaching and Learning Adolescent Development in	3	AIS EDFN	211 101 340 351	South Dakota American Indian Culture and Education  Exploration of Teaching and Learning  Adolescent Development in Educational	3 1 3
EDFN EDFN EDFN EDFN	211 101 340 351 352	South Dakota American Indian Culture and Education  Exploration of Teaching and Learning Adolescent Development in Educational Contexts  Teaching and Learning I  Teaching and Learning II	3 1 3 1 3	EDFN EDFN EDFN EDFN	211 101 340 351 352	South Dakota American Indian Culture and Education  Exploration of Teaching and Learning Adolescent Development in Educational Contexts  Teaching and Learning I  Teaching and Learning II	3 1 3 1 3
EDFN EDFN EDFN EDFN	211 101 340 351 352 352L	South Dakota American Indian Culture and Education  Exploration of Teaching and Learning  Adolescent Development in  Educational Contexts  Teaching and Learning I  Teaching and Learning II  Teaching and Learning II Lab	3 1 3 1 3 2	EDFN EDFN EDFN EDFN EDFN	211 101 340 351 352 352L	South Dakota American Indian Culture and Education  Exploration of Teaching and Learning  Adolescent Development in Educational Contexts  Teaching and Learning I  Teaching and Learning II  Teaching and Learning II Lab	3 1 3 1 3 2
EDFN EDFN EDFN EDFN EDFN EDFN	211 101 340 351 352 352L 453	South Dakota American Indian Culture and Education  Exploration of Teaching and Learning Adolescent Development in Educational Contexts  Teaching and Learning I  Teaching and Learning II Lab  Teaching and Learning III	3 1 3 1 3 2 3	EDFN EDFN EDFN EDFN EDFN EDFN	211 101 340 351 352 352L 453	South Dakota American Indian Culture and Education  Exploration of Teaching and Learning Adolescent Development in Educational Contexts  Teaching and Learning I  Teaching and Learning II  Teaching and Learning II Lab  Teaching and Learning III	3 1 3 1 3 2 3
EDFN EDFN EDFN EDFN EDFN EDFN EDFN	211 101 340 351 352 352L 453 453L	South Dakota American Indian Culture and Education  Exploration of Teaching and Learning Adolescent Development in Educational Contexts  Teaching and Learning I  Teaching and Learning II  Teaching and Learning III Lab  Teaching and Learning III  Teaching and Learning III	3 1 3 1 3 2 3 4	EDFN EDFN EDFN EDFN EDFN EDFN EDFN	211 101 340 351 352 352L 453 453L	South Dakota American Indian Culture and Education  Exploration of Teaching and Learning  Adolescent Development in Educational Contexts  Teaching and Learning I  Teaching and Learning II  Teaching and Learning III Lab  Teaching and Learning III  Teaching and Learning III	3 1 3 1 3 2 3 4
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## 8. Explanation of the Change:

The Department of Biology and Microbiology has identified the following changes to the Biology – Secondary Education Specialization:

- Removed a specific course selection from SGR #1 and SGR #2 to allow students more flexibility in meeting their System General Education requirements.
- Replaced BIOL 326-326L Biomedical Physiology & Lab (3, 1 cr.) with BIOL 325-325L Physiology & Lab (3, 1 cr.) due to lack of resources to offer BIOL 326-326L as originally intended. BIOL 326-326L Biomedical Physiology & Lab has not and will not likely be offered in the near term.
- Removed ENGL 379 Technical Communication (Capstone) (3 cr.). Students participate in an action research project and technical communication through the SEED 456 course, and scientific and technical communication is integral to their work in all EDFN and SEED coursework. Additionally, this change allows for additional electives/minor courses to be taken by SEED students.
- Removed the department requirements to complete 25 upper division credits with the
  exception that five credits of MATH 125 and MATH 225 may be counted toward that total
  and that students were required to complete a minimum of 33 natural sciences courses. This
  language is redundant to current program requirements and SDSU and BOR graduation
  policy requirements. The requirements were carried over when the department transitioned
  from the College of Agriculture and Biological Sciences to the College of Natural
  Sciences.