

SOUTH DAKOTA BOARD OF REGENTS

ACADEMIC AFFAIRS FORMS

Substantive Program Modification Program

UNIVERSITY:	SDSU
CURRENT PROGRAM TITLE:	Biology (B.S.) [S.BS.BIO]
	- Secondary Education Specialization
	[S.BS.BIO-SED]
CIP CODE:	26.0101
UNIVERSITY DEPARTMENT:	Biology & Microbiology
UNIVERSITY DIVISION:	Natural Sciences

University Approval

To the Roard of Regents and the Executive Director: I certify that I have read this proposal. olicy.

believe it to be accurate, and that it has been eval	tuatea ana approvea as proviaea by university po 5/7/18
Dennis D. Hedge	
Vice President of Academic Affairs	s or Date
President of the University	
1. This modification addresses a change in:	
☐ Total credits required within the discipline	☐ Total credits of supportive course work
☐ Total credits of elective course work	☐ Total credits required for program
☐ Program name	☐ Existing specialization
☐ CIP Code	
	Department Requirements
2. Effective date of change: 2018-2019 Acaden	1 1
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 w	ill occur:
☐ On the effective date for all students	
 On the effective date for students new from existing program) 	to the program (enrolled students will graduate
Proposed new name:	
6 Primary Aspects of the Modification:	

Proposed Curriculum (Highlight Changes) Existing Curriculum

Pre	Num	Title		Cr Hrs	Pre	Num	Title		Cr Hrs	
System General Education Requirements 33-			33-35	System General Education Requirements				33-35		
SGR 1 V	Written Con	nmunication		6	SGR 1 V	Vritten Com	nmunication		6	
ENGL 1	01 Compos	sition I (3)			ENGL 1	ENGL 101 Composition I (3)				
ENGL 2	01 Compos	sition II (3)			ENGL 201 Composition II (3)					
SGR 2 C	Oral Comm	unication		3	SGR 2 C	Oral Commu	ınication		3	
SPCM 1	01 Fundam	entals of Speech			SPCM 101 Fundamentals of Speech					
SGR 3 S	Social Scien	ces/Diversity		6	SGR 3 Social Sciences/Diversity					
Biology	Major:				Biology .					

		Existing Curriculum		F	Proposed C	Eurriculum <mark>(Highlight Changes</mark>	<mark>5)</mark>
Student	t Choice			Student C	Choice		
Second	ary Educatio	on Specialization:		Secondar	y Education	Specialization:	
PSYC	101 General	Psychology (3)		PSYC 10	1 General Pa	sychology (3)	
OR				OR			
SOC 10	00 Introducti	on to Sociology (3)		SOC 100	Introduction	to Sociology (3)	
SGR 4	Arts and Hu	manities/Diversity	6	SGR 4 A	rts and Hum	anities/Diversity	6
SGR 5	Mathematics	3	4-6	SGR 5 M	athematics		4-6
MATH	102 College	e Algebra (3)		MATH 1	02 College	Algebra (3)	
AND				AND		_	
MATH 120 Trigonometry (3)				MATH 1	20 Trigonor	netry (3)	
OR				OR			
MATH 115 Precalculus (5)				MATH 115 Precalculus (5)			
OR		,		OR			
MATH	[121-121L S	Survey of Calculus & Lab (5)		MATH 1	21-121L Su	rvey of Calculus & Lab (5)	
OR	121 1212	variety of Calculus & Lac (5)		OR	21 1212 50	rvey of Calculus & Eas (5)	
_	123 Calculu	$_{1}$ e I (A)			23 Calculus	I(A)	
	Natural Scie		8		atural Science		8
		neral Biology I & Lab (4)	0			eral Biology I & Lab (4)	0
AND	131 131E GC	neral Biology I & Lab (4)		AND	1 131E Gen	ciai Biology I & Lab (4)	
	53-153L Ge	neral Biology II & Lab (4)			3-153L Gene	eral Biology II & Lab (4)	
		irements – BS in Biological			ent Require		
Science		irements bom biological			_		
25	semester cre	edits must be upper division (300 and a	bove).	- 25 se	emester cred	its must be upper division (300 and a	boye).
wit	th the except	ion that MATH 125 and 225, Calculus		with	the exceptio	n that MATH 125 and 225, Calculus	
wit III,	th the except , may be cou	ion that MATH 125 and 225, Calculus nted as five credits toward the total.	II and	with III, n	the exceptionay be count	n that MATH 125 and 225, Calculus ed as five credits toward the total.	II and
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4

4

4-8

4-8

Chemistry

328 - 328L Organic Chemistry II & Lab

PHYS 111-111L Introduction to Physics I & Lab (4)

PHYS 113-113L Introduction to Physics II & Lab (4)

PHYS 101-101L Survey of Physics & Lab (4)

CHEM

Physics

Chemistry

328 -328L Organic Chemistry II & Lab

PHYS 111-111L Introduction to Physics I & Lab (4)

PHYS 113-113L Introduction to Physics II & Lab (4)

PHYS 101-101L Survey of Physics & Lab (4)

CHEM

Physics

4

4

4-8

4-8

Existing Curriculum

Proposed Curriculum (Highlight Changes)

M . d		Existing Curriculum	2.4			urriculum (Highlight Changes	
Mathema		TI (A)	3-4	Mathema		T (4)	3-4
	25 Calculus	s II (4)	3-4		25 Calculus II	1 (4)	3-4
or	1 Internalizati	(and the Statistics (2)		Of CT AT 201		- 4- C4-4:-4: (2)	
		on to Statistics (3)	2			n to Statistics (3)	2
_	& Advance		2		& Advanced		2
BIOL	<u> </u>	Seminar	2	BIOL		Seminar	2
	Biology Req		20-21		iology Requi		20-21
		out specializations are required to	10			t specializations are required to	10
		additional departmental credits at the				ditional departmental credits at the	
		, BOT, or MICR)	10.11			BOT, or MICR)	10.11
		e of the following paths	10-11			of the following paths	10-11
	3 - Evolutio	* *			- Evolution		
BIOL 221-221L - Human Anatomy & Lab (4) BIOL 325-325L - Physiology & Lab (4)					nan Anatomy & Lab (4)		
	3-323L - PII	ysiology & Lab (4)			-323L - Pilys	siology & Lab (4)	
or DIOL 27	3 - Evolutio	n (2)		or DIOL 272	- Evolution	(2)	
BOT 201-201L - General Botany & Lab * (3) BOT 327-327L - Plant Physiology & Lab (4)				BOT 201-201L - General Botany & Lab * (3) BOT 327-327L - Plant Physiology & Lab (4)			
		Education Requirements	20-21			ucation Requirements	20-21
Physics	secondary I	Addition requirements	4	Physics	ccondary Eu	acation requirements	4
PHYS	101-1011	Survey of Physics & Lab	4	PHYS	101-101L	Survey of Physics & Lab	4
11113	101-101L	Survey of Filysics & Lau	-	11113	101-101L	Burvey of Filysics & Lau	
Specializ	ation Requi	rements	16-17	Specializa	tion Require	ments	16-17
BOT		General Botany & Lab	3	BOT	201-201L	General Botany & Lab	3
		•				•	
BIOL		Human Anatomy & Lab	4	BIOL		Human Anatomy & Lab	4
BIOL	373	Evolution	3	BIOL	373	Evolution	3
NRM	311	Principles of Ecology	3	NRM	311	Principles of Ecology	3
		the following:	3-4		ast one of the		3-4
		rsiology & Lab (4)				ology & Lab (4)	
	HIL 383 Bio				IL 383 Bioet		
		ganic Chemistry II & Lab (4)				anic Chemistry II & Lab (4)	
		mal Diversity & Lab (4)				al Diversity & Lab (4)	
		ronmental Ethics (3)				nmental Ethics (3)	
	Animal Beh				Animal Behav		
		ation Requirements	37			ion Requirements	37
		credits of coursework beyond SGRs,			Additional required credits of coursework beyond SGRs, Major, and Support Courses		
~	and Support		2	~	T = 1.1	~ 4 ~ 4	2
AIS	211	South Dakota American Indian	3	AIS	211	South Dakota American Indian Culture and Education	3
EDEM	101	Culture and Education	1	EDEM	101		1
EDFN	101	Exploration of Teaching &	1	EDFN	101	Exploration of Teaching &	1
EDEM	251	Learning	1	EDEM	251	Learning Tagabina & Lagraina I	1
EDFN	351	Teaching & Learning I	1	EDFN	351	Teaching & Learning I	1
EDFN	352-352L	Teaching & Learning II & Lab	5	EDFN	352-352L	Teaching & Learning II & Lab	5
EDFN	453-453L	Teaching & Learning III & Lab	7	EDFN	453-453L	Teaching & Learning III & Lab	7
EDFN	454	Teaching & Learning IV	11	EDFN	454	Teaching & Learning IV	11
EDFN	475	Human Relations	3	EDFN	475	Human Relations	3
SEED	413	7-12 Science Methods	3	SEED	413	7-12 Science Methods	3
SEED	450	7-12 Reading and Content	2	SEED	450	7-12 Reading and Content	2
		Literacy				Literacy	
SEED	456	Capstone/Action Research	1	SEED	456	Capstone/Action Research	1
Elective	s		0-20	Electives			0-20
		Summar	y of Cree	dits Biolog	y (B.S.)		
System	General Ed	lucation Requirement	33-35			cation Requirement	33-35
ABS College Requirements – BS in Biological Sciences					ent Require		
Major Requirements					equirements		67-73
Electives							12-20
		Summary of Credits for Biolo	12-20 gy (B.S.)			on Specialization	
		Summing of Ciculo 101 Diolo	BJ (20.00)	, Scomu	arj Laucum	P minemon	

Existing Curriculum

Proposed Curriculum (Highlight Changes)

System General Education Requirements	33-35	System General Education Requirements	33-35
ABS College Requirements – BS in Biological Sciences	1	Department Requirements	
Major Requirements	50-51	Major Requirements	50-51
Teaching Specialization Requirements	37	Teaching Specialization Requirements	37
El - 42	Δ	Tel 40	Λ
Electives	U	Electives	U
Total hours required for major and specialization	67-88	Total hours required for major specialization	67-88

7. Explanation of the Change:

The Department of Biology & Microbiology will move from the College of Agriculture & Biological Sciences to the College of Natural Sciences effective July 1, 2018. The College of Agriculture & Biological Sciences – Bachelor of Science in Biological Science requirements have been realigned as department requirements within the program.