

## SOUTH DAKOTA BOARD OF REGENTS ACADEMIC AFFAIRS FORMS

# Substantive Program Modification Form

UNIVERSITY:	SDSU
<b>CURRENT PROGRAM DEGREE:</b>	Bachelor of Science (B.S.)
<b>CURRENT PROGRAM MAJOR/MINOR:</b>	Wildlife and Fisheries Sciences
<b>CURRENT SPECIALIZATION:</b>	N/A
CIP CODE:	03.0601
<b>UNIVERSITY DEPARTMENT:</b>	Natural Resource Management
<b>BANNER DEPARTMENT CODE:</b>	SNAR
UNIVERSITY COLLEGE:	Agriculture, Food & Environmental
	Science
BANNER COLLEGE CODE:	3F

### **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.

	Dennis D. Hedge		4/3/2023						
	Vice President of Academic Affairs	or	Date						
	President of the University								
1.	This modification addresses a change in:								
$\ge$	Total credits required within the discipline	$\boxtimes$	Total credits of supportive course work						
$\ge$	Total credits of elective course work		Total credits required for program						
	Program name		Existing specialization						
	] CIP Code		Other (explain below)						
	Modification requiring Board of Regents ap	oproval							
	Must have prior approval from Executive D	Director	· or designee						
2.	Effective date of change: 2023-2024 Academi	ic Year	•						
3.	Program Degree Level:								
	Associate 🗆 Bachelor's 🖂	Master	's 🗌 Doctoral 🗌						
4.	Category:								
	Certificate $\Box$ Specialization $\Box$	Min	or 🗌 Major 🖂						
5.	If a name change is proposed, the change will	l occur							
	$\Box$ 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	g relate	d articulation agreements, site approvals,						
	etc.								
6.	Is the program being modified associated with	th a cu	rrent articulation agreement?						

Yes 🖂 No 🗆

a. If yes, will the articulation agreement need to be updated with the partner institution following the approve of the program change? Please explain: Articulation agreement with Northwest Iowa Community College will need to be updated to reflect program changes.

#### 7. Primary Aspects of the Modification:

Existing Curriculum Proposed Curriculum (Highlight Changes) Title Title Cr Hrs Pref Num Pref Num Cr Hrs System General Education Requirements 32 System General Education Requirements 32 System General Education Requirements - Electives 12 System General Education Requirements - Electives 21 Student Choice (SGR #1) 3 Student Choice (SGR #1) 3 Student Choice (SGR #2) 3 Student Choice (SGR #3) Student Choice (SGR #3) 3 3 3 3 Student Choice (SGR #3) Student Choice (SGR #3) Student Choice (SGR #4) 3 System General Education Requirements - Required 20 System General Education Requirements - Required 11 Composition I (SGR #1) ENGL 101 3 ENGL **101** Composition I (SGR #1) 3 Composition II (SGR #1) ENGL 201 Composition II (SGR #1) 3 ENGL  $\frac{201}{201}$ 3 CMST 101 Fundamentals of Speech (SGR #2) 3 CMST <mark>101</mark> Fundamentals of Speech (SGR #2) 3 College Algebra (SGR #5) MATH 114 3 MATH 114 College Algebra (SGR #5) 3 BIOL 151-151L General Biology I & Lab (SGR #6) BIOL 151-151L General Biology I & Lab (SGR #6) 4 4 (4,0)(4,0)101-101L Survey of Physics & Lab (4,0) 101-101L Survey of Physics & Lab (3,1) PHYS 4 PHYS 4 OR OR PHYS 111-111L Introduction to Physics & Lab (4,0) 111-111L Introduction to Physics & Lab (3,1) PHYS **College Requirements** 5 College Requirements 5 Students seeking the Bachelor of Science degree must Students seeking the Bachelor of Science degree must complete the System General Education Requirements. In complete the System General Education Requirements. In some majors, the student must select a "specialization." some majors, the student must select a "specialization." Additional requirements for Bachelor of Science degrees Additional requirements for Bachelor of Science degrees follow. <del>follow.</del> • The requirements of one of the College's majors must be The requirements of one of the College's majors must met. Specific requirements are listed under each program of be met. Specific requirements are listed under each study. <del>program of study.</del> 25 semester credits must be upper division (300 and • 25 semester credits must be upper division (300 and above), with the exception that MATH 125 and 225, above), with the exception that MATH 125 and 225, Calculus II and III, may be counted as five credits toward Calculus II and III, may be counted as five credits <del>the total.</del> toward the total. Bachelor of Science in Agriculture, Food and Bachelor of Science in Agriculture, Food and Environmental Sciences **Environmental Sciences** Students must complete a minimum of 11 credits from the Students must complete a minimum of 11 credits from the approved list of Group 1 courses in Agriculture, Food and approved list of Group 1 courses in Agriculture, Food and Environmental Science. Some departments require Environmental Science. Some departments require specific specific courses from the list, whereas others leave the courses from the list, whereas others leave the selection selection entirely to the student and the advisor. entirely to the student and the advisor. • NRM 311 Principles of Ecology (Major Requirement) • NRM 311 Principles of Ecology (Major Requirement) WL 220 Introduction to Wildlife and Management (3) • WL 220 Introduction to Wildlife and Management (3) (Major Requirement) (Major Requirement) Select 5 credits from the Group 1 courses • Select 5 credits from the Group 1 courses **Major Requirements** 66-73 Major Requirements <mark>67-72</mark> Livestock Breeding and Genetics (4) AS 332 3-4 AS 332 Livestock Breeding and Genetics (4) 3-4 OR OR 371 Genetics (3) BIOL 371 Genetics (3) BIOL General Botany I BOT 201 BOT 201 General Botany I 3 3 General Botany I Lab 201L General Botany I Lab BOT 201L 0 BOT 0

	Existing Curriculum Proposed Curriculum (Highlight Changes)							
Pref	Num	Title	Cr Hrs	Pref	Num	Title	Cr Hrs	
CHEM	106-106L	Chemistry Survey & Lab (3,1)	8-9	CHEM	106-106L	Chemistry Survey & Lab (3,1)	8-9	
CHEM	108-108L	Organic and Biochemistry & Lab (4,1)		CHEM	108-108L	Organic and Biochemistry & Lab (4.1)		
CHEM AND	112-112L	General Chemistry I & Lab (3,1)		CHEM AND	112-112L	General Chemistry I & Lab (3,1)		
CHEM	326-326L	Organic Chemistry I & Lab (3,1)		CHEM	326-326L	Organic Chemistry I & Lab (3,1)		
CHEM	328-328L	Organic Chemistry II & Lab (3,1)	3-4	CHEM	328-328L	Organic Chemistry II & Lab (3,1)	3-4	
PS OR	213-213L	Soils & Lab (2,1) recommended		PS OR	213-213L	Soils & Lab (2,1) recommended		
PS	243	Principles of Geology (3)		PS	243	Principles of Geology (3)		
ENGL	379	Technical Communication (3)	3	ENGL	379	Technical Communication (3)	3	
OR CMST	215	Public Speaking (3)		OR CMST	215	Public Speaking (3)		
NRM	119	Orientation to Natural Resource	2	NRM	119	Orientation to Natural Resource	2	
		Management				Management		
NRM	230	Natural Resource Management	2	NRM	230	Natural Resource Management	2	
NDM	276	lechniques	1	NDM	276	lechniques	1	
	270	Natural Pasouroa Managament	1	NRM	270	Natural Pasource Management	1 2	
OR	202-202L	Statistics & Lab (3.0)	3	OR	202-202L	Statistics & Lab $(2.1)$	5	
STAT	281	Introduction to Statistics (3)		STAT	281	Introduction to Statistics (3)		
NRM/	311	Principles of Ecology	3	NRM/	311	Principles of Ecology	3	
BIOL	011		U	BIOL	011	U		
WL	220	Introduction to Wildlife	3	WL	220	Introduction to Wildlife	3	
WL	411	Principles of Wildlife Management	3	WL	411	Principles of Wildlife Management	2	
WL	411L	Principles of Wildlife Management Lab	0	WL	411L	Principles of Wildlife Management Lab	1	
WL	412	Principles of Fisheries Management	3	WL	412	Principles of Fisheries Management	2	
WL	412L	Principles of Fisheries Management Lab	0	WL	412L Principles of Fisheries Management Lab			
Botany R courses.	Requirement Credits: 3	t- Select 3 credits from the following	3	<i>Botany Requirement</i> - Select 3 credits from the following courses. Credits: 3			3	
BOT	301	Plant Systematics	3	BOT	301	Plant Systematics	3	
BOT	301L	Plant Systematics Lab	0	BOT	301L	Plant Systematics Lab	0	
BOT	303	Forest Ecology and Management	3	BOT	303	Forest Ecology and Management	2	
BOT	303L	Forest Ecology and Management Lab	0	BOT	303L	Forest Ecology and Management Lab	1	
BOT	405	Grasses and Grasslike Plants	3	BOT	405	Grasses and Grasslike Plants	1	
BOT	405L	Grasses and Grasslike Plants Lab	0	BOT	405L	Grasses and Grasslike Plants Lab	2	
BOT	415	Aquatic Plants	3	BOT	415	Aquatic Plants	<mark>1</mark>	
BOT	415L	Aquatic Plants Lab	0	BOT	415L	Aquatic Plants Lab	<mark>2</mark>	
BOT/ RANG	419	Plant Ecology	2	BOT/ RANG	OT/ 419 Plant Ecology ANG		2	
BOT/	419L	Plant Ecology Lab	1	BOT/ PANG	419L	Plant Ecology Lab	1	
Organis	nal Group	Flactives- Select 3 of the following	8-11	Organis	nal Group	<i>Electives</i> - Select 3 of the following	<mark>9-10</mark>	
courses. Credits: 8-11		0-11	courses	ourses Credits: 9-10				
WL.	355	Mammalogy	3	WL.	355	Mammalogy	3	
WL	355L	Mammalogy Lab	0	WL	355L	Mammalogy Lab	0	
WL	363	Ornithology	4	WL	363	Ornithology	4	
WL	363L	Ornithology Lab	0	WL	363L	Ornithology Lab	0	
WL	367	Ichthyology	3	WL	367	Ichthyology	2	
WL	367L	Ichthyology Lab	0	WL	367L	Ichthyology Lab	1	
WL	418	Ecology of Aquatic Invertebrates	3	WL	418	Ecology of Aquatic Invertebrates	2	
WL	418L	Ecology of Aquatic Invertebrates Lab	0	WL	418L	Ecology of Aquatic Invertebrates Lab	1	
WL	434	Herpetology	3	WL	434	Herpetology	3	

Existing Curriculum Proposed Curriculum (Highlight Changes)								
Pref	Num	Title	Cr Hrs	Pref	Num Title		Cr Hrs	
WL	434L	Herpetology Lab	0	WL	434L	L Herpetology Lab		
Advanced Group Electives- Select 3 the following courses.		9-10	Advance	Advanced Group Electives- Select 3 eredits of from th				
Credits:	9-10	1		following courses. Credits: 9-10		Credits: 9-10		
BIOL	373	Evolution	3	BIOL	373	Evolution	3	
EES	425	Disturbance and Restoration Ecology	3	EES	425	Disturbance and Restoration Ecology	3	
EES	425L	Disturbance and Restoration Ecology	0	EES	<mark>425L</mark>	Disturbance and Restoration Ecology	<mark>⊖</mark>	
<b>DEC</b>	100	Lab		550	100	Lab	-	
EES	430	Biological Evasions	3	EES	430	Biological Evasions	3	
EES	430L	Biological Evasions Lab	0		430L	Biological Evasions Lab	<b>+</b>	
				GEOG	372	Introduction to GIS	2	
NDM	250		2	GEOG	372L	Introduction to GIS Lab		
NRM	350	Endangered and Nongame Wildlife	3	NRM	350	Endangered and Nongame Wildlife	3	
				NRM	<mark>410</mark>	Conservation Biology	<mark>3</mark>	
NRM	450	Freshwater Monitoring and Assessment	3	NRM	450	Freshwater Monitoring and	<mark>2</mark>	
						Assessment		
NRM	450L	Freshwater Monitoring and Assessment	0	NRM	450L	Freshwater Monitoring and	1	
		Lab				Assessment Lab		
NRM	464	Ecosystem Ecology	3	NRM	464	Ecosystem Ecology	3	
NRM	482	Natural Resource Management Biometry	3	NRM	482	Natural Resource Management Biometry	2	
NRM	482L	Natural Resource Management	0	NRM	482L	Natural Resource Management	<mark>1</mark>	
		Biometry Lab				Biometry Lab		
RANG	321	Wildland Ecosystems	3	RANG	321	Wildland Ecosystems	3	
RANG	374	Habitat Conservation and Management	4	RANG	374	Habitat Conservation and Management	<mark>3</mark>	
RANG	374L	Habitat Conservation and Management	0	RANG	374L	Habitat Conservation and	1	
		Lab				Management Lab		
WL	415	Upland Game Ecology and Management	3	WL	415	Upland Game Ecology and Management	2	
WL	415L	Upland Game Ecology and	0	WL	415L	Upland Game Ecology and	1	
WI	417	Management Lab	2	WI	417	Management Lab	2	
WL	41/	Management	3 WL 417 Large Mammal H Management		Management	<mark>∠</mark>		
WI	417L	Large Mammal Ecology and	0	WI	417I	I arge Mammal Ecology and	1	
	+17L	Management Lab	Ŭ		1172	Management Lab	-	
WL	419	Waterfowl Ecology and Management	3	WL	WL 419 Waterfowl Ecology and Management			
WL	419L	Waterfowl Ecology and Management	0	WL 419L Waterfowl Ecology and Management			1	
		Lab	Lab		Lab	_		
WL	421	Grassland Fire Ecology	3	WL	421	Grassland Fire Ecology	3	
WL	425	Wildlife Nutrition and Disease	3	WL	425	Wildlife Nutrition and Disease	<mark>2</mark>	
WL	425L	Wildlife Nutrition and Disease Lab	0	WL	425L	Wildlife Nutrition and Disease Lab	1	
WL	427	Limnology and Stream Ecology	3	WL	427	Limnology and Stream Ecology	2	
WL	427L	Limnology and Stream Ecology Lab	0	WL	427L	Limnology and Stream Ecology Lab	<b>1</b>	
WL	429	Ecology of Fishes and Habitat	3	WL	429	Ecology of Fishes and Habitat	3	
WL	431	Advanced Fisheries Management	3	WL	431	Advanced Fisheries Management	2	
WL	431L	Advanced Fisheries Management Lab	0	WL	431L	Advanced Fisheries Management Lab	1	
Human I	Dimensions	Requirement	6	Human I	Dimensions	Requirement	6	
WL	430	Human Dimensions in Natural	3	WL	430	Human Dimensions in Natural	3	
		Resource Management		 		Resource Management		
NRM	300	Laws and Public Policies in Natural	3	NRM	300	Laws and Public Policies in Natural	3	
OR	120	Resource Management (3)		OR	120	Resource Management (3)		
WL Flort	[420 ~	wildlife Law Enforcement (3)	10.15	WL	420	wildlife Law Enforcement (3)	16.01	
Elective	S		10-17	Elective	: <mark>S</mark>		10-21	
~	~	Summary of Credits W	Vildlife	fe and Fisheries Sciences (B.S.)				
System General Requirements			32	52 System General Requirements				
College	College Requirements			College Requirements			0	

		Existing Curriculum		I	Proposed	d Curriculum	(Highlight	Changes)	
Pref	Num	Title	Cr Hrs	Pref	Num	Title			Cr Hrs
Major Requirements			66-73	Major	Iajor Requirements				<mark>67-72</mark>
Free Electives			10-17	Free E	lectives				<mark>16-21</mark>
	]	Total number of hours required for major	91-98		Т	otal number of	hours require	d for major	78-84
Total number of hours required for degree			120		Tot	al number of ho	ours required f	for degree	120

#### 8. Explanation of the Change:

Removed a specific course selection from SGR #1 and SGR #2 to allow students more flexibility in meeting their System General Education requirements.

The College of Agriculture, Food and Environmental Sciences has eliminated the college requirement to complete 11 credits from the Group 1 list. The courses listed as part of the college requirement also fulfilled major requirements.

Departments have updated zero credit lab courses. The credits between the lecture and labs were adjusted to accurately reflect contact time.

Added GEOG 372-372L Introduction to GIS and Lab and NRM 410 Conservation Biology as an advanced group elective to help adequately prepare students with the skills required for jobs and careers.