YOUR SOUTH DAKOTA BOARD OF RECENTS PUBLIC UNIVERSITIES & SPECIAL SCROOLS

SOUTH DAKOTA BOARD OF REGENTS

ACADEMIC AFFAIRS FORMS

Substantive Program Modification Form

UNIVERSITY:	SDSU					
CURRENT PROGRAM TITLE:	Conservation Planning and Park Management					
	(B.S.)					
CIP CODE:	03.0101					
UNIVERSITY DEPARTMENT:	Natural Resource Management					
BANNER DEPARTMENT	SNAR					
CODE:						
UNIVERSITY DIVISION:	Agriculture, Food & Environmental Science					
BANNER DIVISION CODE:	3F					
I believe it to be accurate, and that it he policy. Dennis D. Hedge	tive Director: I certify that I have read this proposal, that as been evaluated and approved as provided by university 3/25/2020					
Vice President of Academ						
President of the Uni	iversity					
1. This modification addresses a cha	nge in:					
☐ Total credits required within the	S					
	1					
□ Program name	Fxisting specialization					

☐ CIP Code ☐ Other (explain below)

2. Effective date of change: 2020-2021 Academic Year

3. Program Degree Level: Associate □ Bachelor's ⊠ Master's □ Doctoral □

4. Category: Certificate \square Specialization \square Minor \square Major \boxtimes

5. If a name change is proposed, the change will occur:

 \square 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:

6. Primary Aspects of the Modification:

Existing Curriculum

Proposed Curriculum (highlight changes)

		Laisting Curriculum		170	sposea Ci	irriculum (<mark>mightighti changes</mark>)	
Pref.	Num	Title	Cr.Hrs	Pref.	Num	Title	Cr. Hrs
System General Education Requirements		32	System General Education Requirements			32	
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
ECON	201	Principles of Microeconomics (SGR #3)	3	ECON	201	Principles of Microeconomics (SGR #3)	3
POLS	210	State and Local Government (SGR #3)	3	POLS	210	State and Local Government (SGR #3)	3

Existing Curriculum Proposed Curriculum (highlight changes)

Existing Curriculum				Proposed Curriculum (<mark>highlight changes</mark>)						
Pref.	Num	Title	Cr.Hrs	Pref.	Num	Title	Cr. Hrs			
		Student Choice (SGR #4)	3			Student Choice (SGR #4)	3			
		Student Choice (SGR #4)	3			Student Choice (SGR #4)	3			
MATH	114	College Algebra (SGR #5)	3	MATH	114	College Algebra (SGR #5)	3			
BIOL	151-151L	General Biology I & Lab (SGR #6)	4	BIOL	151-151L	General Biology I & Lab (SGR #6)	4			
CHEM	106-106L	Chemistry Survey & Lab (SGR #6)	4	CHEM		Chemistry Survey & Lab (SGR #6)	4			
College	Requiremen	nts	0	College Requirements			0			
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 ma	ijors, the stu	dent must select a "specialization."		some majors, the student must select a "specialization."						
Addition	al requireme	ents for both Bachelor of Science		Additional requirements for both Bachelor of Science						
degrees	follow.			degrees follow.						
• The	requirement	s of one of the College's majors must		• The requirements of one of the College's majors must						
be n	net. Specific	requirements are listed under each		be m	be met. Specific requirements are listed under each					
	gram of study			program of study.						
• 25 s	emester cred	lits must be upper division (300 and		• 25 se	• 25 semester credits must be upper division (300 and					
		exception that MATH 125 and 225,				exception that MATH 125 and 225,				
		III, may be counted as five credits				II, may be counted as five credits				
	ard the total.				rd the total.					
		in Agriculture, Food and				in Agriculture, Food and				
	mental Scie				nental Scier					
		ete a minimum of 11 credits from the				ete a minimum of 11 credits from the				
		up 1 courses in Agriculture, Food and			approved list of Group 1 courses in Agriculture, Food and					
		ce. Some departments require specific			Environmental Science. Some departments require specific					
		whereas others leave the selection				whereas others leave the selection				
		t and the advisor.		entirely to the student and the advisor.						
		Integrated Natural Resource		ABS 475-475L Integrated Natural Resource Management & Lab (2) (Consequential Planning and						
	Management & Lab (3) (Conservation Planning and			Management & Lab (3) (Conservation Planning and						
Management section) (Major Requirement)				Management section) (Major Requirement)						
		luction to Conservation Planning and		NRM 221 Introduction to Conservation Planning and						
Management (3) (Major Requirement)				Management (3) (Major Requirement)						
NRM 282-282L Natural Resource Statistics & Lab (3)			NRM 282-282L Natural Resource Statistics & Lab (3) (Major Requirement)							
` '	jor Requiren				-					
		of Ecology (3) (Major Requirement)	02			ples of Ecology (3) (Major Requirement)				
	equirement		83	Major Requirements CPPM Core Requirements			85			
	Core Require		62				64			
ABS	475-475L	Integrated Natural Resource	3	ABS	475-475L	Integrated Natural Resource	3			
		Management & Lab (Conservation				Management & Lab (Conservation				
CEOC	121 1217	Planning and Management section)	4	CEOC	121 1217	Planning and Management section)	4			
GEOG	131-131L	Physical Geography: Weather and	4	GEOG	131-131L		4			
or GEOG	132-132L	Climate & Lab (4) Physical Geography: Natural		or GEOG	122 1221	Climate & Lab (4) Physical Geography: Natural				
GEUG	132-132L	Landscapes & Lab (4) (recommended		GEOG	132-132L	Landscapes & Lab (4) (recommended				
						* ' '				
GEOG	365	for PAM specialization) Land Use and Planning	3	GEOG	365	for PAM specialization) Land Use and Planning	2			
GEOG	372-372L	Introduction to GIS and Lab	3	GEOG		Introduction to GIS and Lab	3			
		Arboriculture and Urban Forestry (3)	3	HO	372-372L 339-339L		3			
HO or	339-339L	Arboriculture and Orban Porestry (3)	3		339-339L	Arboriculture and Urban Forestry (3)	3			
BOT	303-303L	Forest Ecology and Management & Lab]	or BOT	303-303L	Forest Ecology and Management & Lab				
DOI	303-303L	(3)	1	DOI	303-303L	(3)				
LEAD	435	Organizational Leadership and Team	3	LDR	435	Organizational Leadership and Team	3			
LEAD	+33	Development	3	LDK	433	Development	3			
NRM	119	Orientation to Natural Resource	3	NRM	119	Orientation to Natural Resource	3			
INIXIVI	117	Management Management	3	1 11/1/1	117	Management	3			
NRM	221	Conservation Planning and	3	NRM	221	Conservation Planning and Management	3			
INIXIVI	221	Management I	3	1 11/1/1	221	T				
NRM	230	Natural Resource Management	3	NRM	230	Natural Resource Management	3			
1 417141	230	Techniques		1 11/1/1	230	Techniques	3			
	ĺ	1	1		1	2 00111114000	1			

Existing Curriculum (highlight changes)

Duck	Nimma	Existing Curriculum	C., II			rriculum (<mark>highlight changes</mark>)	C II
Pref.	Num	Title	Cr.Hrs		Num 276	Title Scientific Communications	Cr. Hrs
NDM	202 2021	New and Decrease Continue of the first	2	NRM			1
NRM	282-282L	Natural Resource Statistics & Lab	3	NRM	282-282L	Natural Resource Statistics & Lab	3
NRM	300	Laws and Policies in Natural Resource Management	3	NRM	300	Laws and Policies in Natural Resource Management	3
NRM	311	Principles of Ecology	3	NRM	311	Principles of Ecology	3
NRM	321	Park Interpretation	3	NRM	321	Park Interpretation	3
PS	210-210L	Turf and Weed Management in Horticulture & Lab	3	PS	210-210L	Horticulture & Lab	3
PS	213-213L	Soils & Lab	3	PS	213-213L	Soils & Lab	3
RANG	321	Wildland Ecosystems	3	RANG	321	Wildland Ecosystems	3
RANG	374-374L	Habitat Conservation and Management and Lab	3	RANG	374-374L	Habitat Conservation and Management and Lab	4
RECR	140	Introduction to Sport, Recreation, and Park Management	3	RECR	140	Introduction to Sport, Recreation, and Park Management	3
RECR	402	Outdoor Recreation Resource Management	3	RECR	402	Outdoor Recreation Resource Management	3
WL	430	Human Dimensions in Natural Resource Management	3	WL	430	Human Dimensions in Natural Resource Management	3
CPPM N	Aajor Electiv		21	CPPM M	lajor Electi		21
BIOL	373	Evolution	3	BIOL	373	Evolution	3
BOT	301-301L	Plant Systematics & Lab	3	BOT	301-301L		3
ВОТ	303-303L	Forest Ecology and Management & Lab	3	ВОТ	303-303L		3
BOT	405-405L	Grasses and Grasslike Plants & Lab	3	BOT	405-405L	Grasses and Grasslike Plants & Lab	3
BOT	419-419L	Plant Ecology & Lab	3	BOT	419-419L	Plant Ecology & Lab	3
CEE	434	Hydrology	3	CEE	434	Hydrology	3
EES	430-430L	Biological Invasions & Lab	3	EES	430-430L		3
GEOG	473-473L	GIS: Data Creation and Integration & Lab	3	GEOG	473-473L		3
GEOG	474-474L	GIS: Vector and Raster Modeling & Lab	3	GEOG	474-474L	GIS: Vector and Raster Modeling & Lab	3
GEOG	475-475L	GIS Applications & Lab	3	GEOG	475-475L	GIS Applications & Lab	3
GEOG	484-484L	Remote Sensing & Lab	3	GEOG	484-484L		3
НО	339	Arboriculture and Urban Forestry	3	НО	339	Arboriculture and Urban Forestry	3
HRM	460	Human Resource Management	3	HRM	460	Human Resource Management	3
LA	331	Landscape Site Engineering	3	LA	331	Landscape Architecture Site Engineering	3
LA	341	Planning Public Grounds	3	LA	341	Public and Social Place Design	3
LA	352	Planting Design Studio	4	LA	352	Planting and Ecological Design	4
MGMT	360	Organization and Management	3	MGMT	360	Organization and Management	3
MICR	310-310L	Environmental Microbiology & Lab	4	MICR	310-310L		4
MICR	421-421L	Soil Microbiology & Lab	3	MICR	421-421L		3
NRM	200-200L	Animal Diversity & Lab	3	NRM	200-200L		3
NRM	450-450L	Freshwater Monitoring and Assessment & Lab	3	NRM	450-450L	<u> </u>	3
NRM	466-466L	Environmental Toxicology and Contaminants	3	NRM	466-466L		3
NRM	482-482L	Natural Resource Management Biometry & Lab	3	NRM	482-482L	Natural Resource Management Biometry & Lab	3
PRAG	340	Climate Risk Management with Precision Agriculture	3	PRAG	340	Climate Risk Management with Precision Agriculture	3
RANG	210-210L	Range Plant Identification & Lab	2	RANG	210-210L		2
RANG	425-425L	Rangeland Assessment and Monitoring & Lab	3	RANG	425-425L		3
RANG	421	Grassland Fire Ecology	3	RANG	421	Grassland Fire Ecology	3
RECR	302	Commercial Recreation and Tourism	3	RECR	302	Commercial Recreation and Tourism	3

Cr.Hrs Cr. Hrs RECR 360 Sport, Recreation, and Park RECR 360 Sport, Recreation, and Park 3 **Programming Programming RECR** 415 Recreation and Sport Facility **RECR** 415 Recreation and Sport Facility 3 Management Management WL 3 WL 302 Animal Behavior 302 Animal Behavior 3 Mammalogy & Lab WL 355-355L 3 WL 355-355L Mammalogy & Lab 3 4 WL 363-363L Ornithology & Lab WL 363-363L Ornithology & Lab 4 WL 367-367L Ichthyology & Lab 3 WL 367-367L Ichthyology & Lab 3 WL 411-411L Principles of Wildlife Management & WL411-411L Principles of Wildlife Management & WL WL 3 412-412L Principles of Fisheries Management & 412-412L Principles of Fisheries Management & 3 WL Upland Game Ecology and 3 415-415L WL 415-415L Upland Game Ecology and 3 Management & Lab Management & Lab WL 417-417L Large Mammal Ecology and 3 WL 417-417L Large Mammal Ecology and 3 Management & Lab Management & Lab WL 419-419L 3 WL Waterfowl Ecology and Management 419-419L Waterfowl Ecology and Management 3 & Lab WL 425-425L WL Wildlife Nutrition and Disease & Lab 3 Wildlife Nutrition and Disease & Lab 3 425-425L WL 427-427L Limnology & Lab 3 WL 427-427L Limnology & Lab 3

Pref.

Num

Proposed Curriculum (highlight changes)

Advanced Fisheries Management &

Total number of hours required for degree

Herpetology & Lab

3

3

Title

Electives	5	Electives	3			
Summary of Credits Conservation Planning & Park Management (B.S.)						
System General Education Requirements	32	System General Education Requirements	32			
College Requirements	0	College Requirements	0			
Major Requirements	83	Major Requirements	<mark>85</mark>			
Major Core (62)		Major Core (<mark>64</mark>)				
CPPM Major Electives (21)		CPPM Major Electives (21)				
Electives	5	Electives	3			
Total number of hours required for major and	83	Total number of hours required for major	<mark>85</mark>			
specialization						

120

3

3

WL

WL

431-431L

434-434L

7. Explanation of the Change:

Existing Curriculum

Advanced Fisheries Management &

Herpetology & Lab

Title

Pref.

WL

WL

431-431L

434-434L

Num

RANG 374-374L Habitat Conservation and Management and Lab will increase from 3 to 4 credit hours. The current course structure is two 50-minute lectures and one 3-hour lab. The amount of lecture material that needs to be covered is not fitting into the current structure and the instructors are not able to go in depth to meet the Student Learning Outcomes (SLOs). Historically, this course had been 4-cr, three 50-minute lectures and one 2-hour lab. The Department thought they could achieve the SLOs under the current format, but assessment metrics (quizzes and exams scores) reveal that students are not thinking critically nor developing the required level of understanding of course content.

A new course has been added to all programs within Natural Resource Management. NRM 276 Scientific Communications (1 cr.) will emphasize best practices in communicating science in written reports and oral presentations to prepare students for upper level natural resource management courses.