YOUR SOUTH DAKOTA BOARD OF REGENTS PIBLIC UNVERSITIES & SPECIAL SCHOOLS

SOUTH DAKOTA BOARD OF REGENTS

ACADEMIC AFFAIRS FORMS

Substantive Program Modification Form

UNIVERSITY:	SDSU
CURRENT PROGRAM TITLE:	Agronomy (B.S.)
CIP CODE:	01.1102
UNIVERSITY DEPARTMENT:	Agronomy, Horticulture & Plant Science
BANNER DEPARTMENT	SAHP
CODE:	
UNIVERSITY DIVISION:	Agricultural, Food & Environmental Sciences
BANNER DIVISION CODE:	3F
v v	tive Director: I certify that I have read this proposal, that as been evaluated and approved as provided by university
Dennis D. Hed	ge 4/29/2020

	Beiling B. Heage				1/2//2020
	Vice President of Academic Affairs	or		_	Date
	President of the University				
1.	This modification addresses a change in:				
\boxtimes	Total credits required within the discipline		Tota	l credits of sup	portive course work
\boxtimes	Total credits of elective course work		Tota	l credits requir	ed for program
	Program name		Exist	ting specializa	tion
	CIP Code		Othe	r (explain belo	ow)
2.	Effective date of change: 2020-2021 Academ	ic Yea	ır	_	
3.	Program Degree Level: Associate □ Bache	elor's	\boxtimes	Master's □	Doctoral \square
4.	Category: Certificate □ Specialization □	Mino	or 🗆	Major ⊠	
=	If a name change is proposed the change w	11 000	1344		

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

 \Box On the effective date for all students

 \Box 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)

Pre	Num	Title	Cr Hrs	Pre	Num	Title	Cr Hrs
Syster	n General	Education Requirements	31-34	Syster	n General	Education Requirements	31-34
SGR Go	oal #1 Wri	tten Communication:	6	SGR Go	oal #1 Writt	en Communication:	6
ENGL 1	101 Englis	h Composition I		ENGL 1	01 English	Composition I	
ENGL 2	201 Englis	h Composition II		ENGL 2	201 English	Composition II	
SGR Go	oal #2 Oral	Communication	3	SGR Go	oal #2 Oral	Communication	3

Existing Curriculum (highlight changes)

Pre Num			Existing Curriculum			Tropose	ed Curriculum (<mark>highlight changes</mark>)	,			
ECON 201 Principles of Microeconomics (3)	Pre	Num	Title	Cr Hrs	Pre	Num	Title	Cr Hrs			
OR ECON 202 Principles of Macroeconomics (3) AND ABS 203 Global Food Systems (3) OR SOC 100 Introduction to Sociology (3) OR SOC 150 Social Problems (3) OR SOC 240 The Sociology of Rural America (3) OR SOC 150 Social Problems (3) OR SOC 240 The Social Social States (3) OR SOC 240 The Social Science (3) OR MATH 115 Precalculus (5) OR MATH 115 Precalculus (5) OR MATH 115 Centeral Biology 11 and Lab (4) AND BIOL 153-1531. General Biology 12 and Lab (4) AND B	SGR G	oal #3 Soc	ial Sciences/Diversity	6	SGR G	oal #3 Soc	ial Sciences/Diversity	6			
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SGR Goal #5 Mathematics: 3-5 MATH 114 College Algebra (3) OR MATH 115 Precalculus (5) OR MATH 110 Trigonometry (3) SGR Goal #6 Natural Sciences BIOL 151-151L General Biology I and Lab (4) OR BOT 201-201L - General Botany and Lab (3) OR DOT 201-201L - General Botany and Lab (3) OR DOT 201-201L - General Botany and Lab (3) OR DOT 201-201L - General Botany and Lab (3) OR DOT 201-201L - General Botany and Lab (3) OR DOT 201-201L - General Botany and Lab (3) OR DOT 201-201L - General Botany and Lab (4) OR BOT 201-201L - General Chambirs (4) OR BOT 201-201L - General Chambirs (4) OR BOT 201-201L - General Chambirs (4) OR BOT 201-201L - General				6				6			
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	PRAG	423		3	PRAG	423		3			
PS 103-103L Crop Production & Lab A 3 PS 103-103L Crop Production & Lab A 3											
	PS	103-103L	Crop Production & Lab A	3	PS	103-103L	Crop Production & Lab A	3			

Existing Curriculum

Proposed Curriculum (highlight changes)

		Existing Curriculum			Tropose	a Curricuium (<mark>nigniight changes</mark>)			
Pre	Num	Title	Cr Hrs	Pre	Num	Title	Cr Hrs		
PS	119	First Year Seminar	1	PS	119	First Year Seminar	1		
PS	213-213L	Soils & Lab (credits count for IGR #2) **A	3	PS	213-213L	Soils & Lab (credits count for IGR #2)-**A	3		
PS	223-223L	Principles of Plant Pathology & Lab A	3	PS	223-223L	Principles of Plant Pathology & Lab A	3		
PS		Agricultural Computations A	2	PS	285	Agricultural Computations A	2		
PS		Entomology & Lab A	3	PS	405-405L	Entomology & Lab A	3		
	Or	or			or	or			
PS	407-407L	Insect Pest Management & Lab A		PS	407-407L	Insect Pest Management & Lab A			
PS	445-445L	Weed Science & Lab A	3	PS	445-445L	Weed Science & Lab A	3		
PS	492	Topics (1)	4	PS	492	Topics (1)	4		
AND				AND					
PS	421-421L	Soil Microbiology & Lab (3)		PS	421-421L	Soil Microbiology & Lab (3)			
OR				OR					
	231-231L	General Microbiology & Lab (4)			231-231L	General Microbiology & Lab (4)			
PS/HO		Seminar for Internship A	1	PS/HO		Seminar for Internship A	1		
PS/HO		Internship ^A	1	PS/HO		Internship A	1		
		Introduction to Statistics	3	STAT		Introduction to Statistics	3		
		es Stewardship Elective:	3-4			es Stewardship Elective:	3-4		
		following courses ^A)	3 4			following courses ^A)	3 4		
		Food Systems (3) ²				Food Systems (3) ²			
		aternational Experience (3)				ternational Experience (3)			
	883 - Bioet				83 - Bioetl				
		es of Geology (3) ²				es of Geology (3) ²			
		sect Pest Management & Lab (3) ²							
		- Soil Geography and Land Use			PS 407-407L - Insect Pest Management & Lab (3) ² PRAG 410-410L - Soil Geography and Land Use				
	etation & L			Interpretation & Lab (3) ²					
		nvironmental Soil Management & Lab			PS 462-462L - Environmental Soil Management & Lab				
$(3)^2$	-402L - Ell	Wifoliniental Son Wanagement & Lab		$(3)^2$					
	on Ag Flo	ctive: (select one of the following	2-3		on Ag Flor	ctive: (select one of the following	2-3		
	_	ctive. (select one of the following	2-3	courses	_	ctive. (select one of the following	2-3		
courses) PD A C 427 Precision A a Data Manning (2) 2					,	ision Ag Data Mapping (2) ²			
PRAG 427 – Precision Ag Data Mapping (2) ²						Crop Management with Precision			
PRAG 440-440L Crop Management with Precision Farming & Lab (3) ²					g & Lab (3				
PRAG 203-203L Introduction to Precision Agriculture						Introduction to Precision Agriculture			
& Lab (2)				& Lab		introduction to Frecision Agriculture			
AST 426 – 426L Emerging Technologies in						Technology Applications for			
	ture & Lat		10			ture and Lab (3)	12		
_	• /	iculture & Plant Science Electives	13			iculture & Plant Science Electives	13		
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		nate Risk of Management with Precision		PRAG 340 – Climate Risk of Management with Precision					
Agricul		W 1 Dl 0 I . 1 (4)		Agriculture (3)					
		- Woody Plants & Lab (4)	(2)	HO/PS 255-255L – Woody Plants & Lab (4)					
HO/PS 311-311L – Herbaceous Plant Identification & Lab (3)) (3)	HO/PS 311-311L – Herbaceous Plant Identification & Lab (3)					
HO/PS 339 – Arboriculture and Urban Forestry (3)					oriculture and Urban Forestry (3)				
HO/PS 411 – Fruit Crop Systems (1)				HO/PS 411 – Fruit Crop Systems (1)					
		Greenhouse and High Tunnel Managem	ent &	HO/PS 413-413L Greenhouse and High Tunnel Management &					
Lab (3)			Lab (3)						
HO/PS 414-414L – Plant Propagation & Lab (3)			HO/PS 414-414L – Plant Propagation & Lab (3)						
		dscape Nursery Management (3)	(6)	HO/PS 416 – Landscape Nursery Management (3)					
HO/PS 435 – Local Food Production: Harvest and Storage (3)			HO/PS 435 – Local Food Production: Harvest and Storage (3)						
HO/PS 444 – Vegetable Crop Systems (1)			HO/PS 444 – Vegetable Crop Systems (1)						
PS 308-308L - Grain Grading & Lab (2)				PS 308-308L - Grain Grading & Lab (2)					
		ad Seed Production and Processing (3)		PS 312 - Grain and Seed Production and Processing (3)					
PS 313	- Forage C	Crop and Pasture Management (3)		PS 313 - Forage Crop and Pasture Management (3)					
PS 320	- Crop Jud	lging (2)		PS 320 - Crop Judging (2)					
PS 383-383L - Principles of Crop Improvement & Lab (3)					PS 383-383L - Principles of Crop Improvement & Lab (3) ²				
PS 585-585L - Principles of Crop Improvement & Lab (5)				rs 383-383L - Principles of Crop Improvement & Lab (3)					

Existing Curriculum Proposed Curriculum (highlight changes) Num Title Cr Hrs Pre Num Title Cr Hrs Pre PS 403-403L - Seed Technology & Lab (3) PS 403-403L - Seed Technology & Lab (3) PRAG 424 Wheat Production (2) PRAG 424 Wheat Production (2) PRAG 425 Soybean Production (2) PRAG 425 Soybean Production (2) PRAG 426 Corn Production (2) PRAG 426 Corn Production (2) PRAG 427Precision Ag Data Mapping (2) PRAG 427Precision Ag Data Mapping (2) PS 434 Local Food Production (2) PS 434 Local Food Production (2) PRAG 440-440L - Crop Management with Precision Farming & PRAG 440-440L - Crop Management with Precision Farming & Lab (3) Lab (3) PS 453 - Advanced Genetics (3) PS 453 - Advanced Genetics (3) Plant Protection Plant Protection HO/PS 210-210L - Turf and Weed Management in Horticulture HO/PS 210-210L - Turf and Weed Management in Horticulture and Lab (3) and Lab (3) PS 407-407L - Insect Pest Management & Lab (3) ² PS 407-407L - Insect Pest Management & Lab (3) ² Or PS 405-405L - Entomology & Lab (COM) (3) 2 Or PS 405-405L - Entomology & Lab (COM) (3) 2 PS/HO 329 - Horticultural Pests (3) PS/HO 329 - Horticultural Pests (3) PS 433 – Field Crop Diseases and Management (3) PS 433 – Field Crop Diseases and Management (3) PS 415-415L- Mycology & Lab (3) PS 415-415L- Mycology & Lab (3) PS 431-531 - Insect Ecology and Biological Control (3) PS 431-531 - Insect Ecology and Biological Control (3) PS 450-450L- Field Study of Plant Disease Diagnosis & Lab (2) PS 450-450L- Field Study of Plant Disease Diagnosis & Lab (2) PS/HO 447 – Organic Food and Plant Production (3) PS/HO 447 – Organic Food and Plant Production (3) Soils/Environmental Protection Soils/Environmental Protection PS 243 - Principles of Geology* (3) ² PS 243 - Principles of Geology* (3) ² PS 244 - Geological Resources of South Dakota Lab (1) PS 244 - Geological Resources of South Dakota Lab (1) PRAG 410-410L - Soil Geography and Land Use Interpretation PRAG 410-410L - Soil Geography and Land Use Interpretation & & Lab** (3) ² $Lab**(3)^{2}$ PS 321 - Soil Judging Credits: 1 1 PS 321 - Soil Judging Credits: 1 1 PS 462-462L - Environmental Soil Management & Lab ** (3) ² PS 462-462L - Environmental Soil Management & Lab ** (3) ² PS 412- Environmental Soil Chemistry (3) PS 412- Environmental Soil Chemistry (3) PS 421-421L- Soil Microbiology & Lab (3) ² PS 421-421L- Soil Microbiology & Lab (3) ² PS 473-473L- Rural Real Estate Appraisal & Lab (3) PS 473-473L- Rural Real Estate Appraisal & Lab (3) PS 483 - Irrigation – Crop and Soil Practices (3) PS 483 - Irrigation – Crop and Soil Practices (3) Electives (Taken as needed to complete any additional 14-22 Electives (Taken as needed to complete any additional 14-23 degree requirements.) degree requirements.) **Summary of Credits Agronomy (B.S.)** 31-34 System General Education Requirements **System General Education Requirements** 31-34 College Requirements **College Requirements** 0 Major Requirements 59-64 **Major Requirements 58-64 Agronomy, Horticulture & Plant Science Electives Agronomy, Horticulture & Plant Science Electives** 13 13 14-22 **Electives Electives 14-23** Notes Notes Cannot be used to solely meet area requirements. Cannot be used to solely meet area requirements. Can only be used to meet requirements in one section Can only be used to meet requirements in one section Agronomy Major Core Curriculum: A student must have a 2.5 Agronomy Major Core Curriculum: A student must have a 2.5 GPA or higher and a grade of C or higher in the courses used to GPA or higher and a grade of C or higher in the courses used to satisfy the Agronomy core curriculum in order to graduate with a satisfy the Agronomy core curriculum in order to graduate with a major in Agronomy. major in Agronomy. Total number of hours required for major 59-64

7. Explanation of the Change:

Total number of hours required for degree

CHEM 120-120L Elementary Organic Chemistry & Lab reduced from four credits to three.

Total number of hours required for major 58-64

Total number of hours required for degree