

SOUTH DAKOTA BOARD OF REGENTS ACADEMIC AFFAIRS FORMS

Substantive Program Modification Form

UNIVERSITY:	SDSU
CURRENT PROGRAM DEGREE:	Bachelor of Science (B.S.)
CURRENT PROGRAM MAJOR/MINOR:	Agricultural Systems Technology
CURRENT SPECIALIZATION:	N/A
CIP CODE:	01.0201
UNIVERSITY DEPARTMENT:	Agricultural & Biosystems Engineering
BANNER DEPARTMENT CODE:	SABG
UNIVERSITY COLLEGE:	Agricultural, Food & Environmental
	Sciences
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
	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	proval	
	Must have prior approval from Executive D		0
	Effective date of change: 2023-2024 Academi	ic Yea	ſ
3.	Program Degree Level:		
	Associate 🗆 Bachelor's 🖂	Master	's 🗌 Doctoral 🗌
4.	8.		
	Certificate \Box Specialization \Box	Mir	nor 🗆 Major 🖂
5.	If a name change is proposed, the change wil	l occui	
	\Box On the effective date for all students		
	\Box On the effective date for students new to the	e progr	am (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: 7. Primary Aspects of the Modification:

Pref.	Num.	Existing Curriculum	Cr. Hrs.	Pref.	Num.	posed Curriculum (<mark>highlight changes</mark>) Title	Cr. Hrs
		Education Requirements	32			Education Requirements	32
		Education Requirements - Electives	9			Education Requirements - Electives	<mark>18</mark>
v		•		•		SGR #1	3
						SGR #1	3
						SGR #2	<mark>3</mark>
		SGR #3	3			SGR #3	3
		SGR #4	3			SGR #4	3
		SGR #4	3			SGR #4	3
System	s General I	Education Requirements - Required	23	Systems	<mark>s General</mark> I	Education Requirements - Required	<mark>14</mark>
ENGL	101	Composition I (SGR #1)	3	ENGL	<mark>101</mark>	Composition I (SGR #1)	<mark>3</mark>
ENGL	201	Composition II (SGR #1)	3	ENGL	<mark>201</mark>	Composition II (SGR #1)	<mark>3</mark>
CMST	101	Fundamentals of Speech (SGR #2)	3	CMST	<mark>101</mark>	Fundamentals of Speech (SGR #2)	<mark>3</mark>
ECON	202	Principles of Macroeconomics (SGR	3	ECON	<mark>202</mark>	Principles of Macroeconomics (SGR	<mark>3</mark>
		#3)				#3)	
				ECON	<mark>201</mark>	Principles of Microeconomics (SGR #3)	<mark>3</mark>
MATH	114	College Algebra (SGR #5)	3	MATH	114	College Algebra (SGR #5)	3
PHYS	101	Survey of Physics (SGR #6)	4	PHYS	101	Survey of Physics (SGR #6)	<mark>3</mark>
PHYS	101L	Survey of Physics Lab (SGR #6)	0	PHYS	101L	Survey of Physics Lab (SGR #6)	1
CHEM	106-106L	Chemistry Survey & Lab (SGR #6)	4	CHEM	106-106L	Chemistry Survey & Lab (SGR #6)	4
OR		(3,1)		OR		(3,1)	
CHEM	112-112L	General Chemistry I & Lab (SGR #6)		CHEM	112-112L	General Chemistry I & Lab (SGR #6)	
		(3,1)				(3,1)	
0	e Requirem		9		Requirem		<mark>9</mark>
Students must complete a minimum of 11 credits from the				Studenta	3 must com	plete a minimum of 11 credits from the	
approved list of Group 1 courses in Agriculture, Food and				<mark>approve</mark>	d list of Gr	oup 1 courses in Agriculture, Food and	
Environmental Science. Some departments require specific				Environ			
courses from the list, whereas others leave the selection					mental Sex	ence. Some departments require specific	
antiroly				courses	from the lis	et, whereas others leave the selection	
	to the stude	ent and the advisor.		courses entirely	from the lis to the stude	xt, whereas others leave the selection e nt and the advisor.	
AST	to the stude 333	ent and the advisor. Soil and Water Mechanics	3	courses entirely <mark>AST</mark>	from the list to the stude <mark>333</mark>	xt, whereas others leave the selection ont and the advisor. <mark>Soil and Water Mechanics</mark>	3
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Pref. AST	Num. 333L	Title Soil and Water Mechanics Lab	Cr. Hrs.	Pref.	Num.	Title	Cr. H
	0002			AST	333L	Soil and Water Mechanics & Lab	1
1.075		(College Requirement)		1 10 1	<u>555</u>	Son and Water Meenanes & Eac	-
AST	342	Applied Electricity (College		AST	<mark>342</mark>	Applied Electricity	2
. 10 1	512	Requirement)		1 10 1	<u></u>	ripplied Liebduleity	-
AST	342L	Applied Electricity Lab (College		AST	<mark>342L</mark>	Applied Electricity Lab	1
1.01	51212	Requirement)		101	<u>512</u>	ripplied Electrony Euo	-
AST	390	Seminar	1	AST	390	Seminar	1
AST	412	Fluid Power Technology	3	AST	412	Fluid Power Technology	2
AST	412L	Fluid Power Technology Lab	0	AST	412L	Fluid Power Technology Lab	
AST	423	Rural Structures	3	AST	423	Rural Structures	2
AST	423 423L	Rural Structures Lab	0	AST	423 423L	Rural Structures Lab	
AST	423L 426		3	AST			
		Technology Applications for Precision Agriculture			426	Technology Applications for Precision Agriculture	2
AST	426L	Technology Applications for Precision Agriculture Lab	0	AST	426L	Technology Applications for Precision Agriculture Lab	1
AST	443	Food Processing and Engineering	3	AST	443	Food Processing and Engineering	2
	-	Fundamentals	-		-	Fundamentals	
AST	443L	Food Processing and Engineering	0	AST	443L	Food Processing and Engineering	1
		Fundamentals Lab	Ŭ			Fundamentals Lab	1
AST	463	Agricultural Waste Management	3	AST	463	Agricultural Waste Management	3
AST	494	Internship (1)	1	AST	494	Internship (1)	1
OR		memory (1)	1	OR	1.2 1	mornismp (1)	
AST	496	Field Experience (1)		AST	496	Field Experience (1)	
OR	470	Tield Experience (1)		OR	470	Tield Experience (1)	
AST	497	Cooperative Experience (1)		AST	497	Cooperative Experience (1)	
BIOL	101	Biology Survey I	2	BIOL	101	Biology Survey I	2
BIOL	101 101L	Biology Survey I Lab	1	BIOL	101 101L	Biology Survey I Lab	1
BLAW	350	Legal Environment of Business	3	BLAW	350	Legal Environment of Business	3
GE	121	Engineering Design Graphics I (1)	2	GE	121	Engineering Design Graphics I (1)	2
AND			2	AND			
GE	123	Computer Aided Drawing (1)		GE	123	Computer Aided Drawing (1)	
OR				OR			
PRAG	326	Precision Ag Data Mapping (2)		PRAG	326	Precision Ag Data Mapping (2)	
MATH		Trigonometry	3	MATH		Trigonometry	3
PRAG	203	Introduction to Precision Agriculture	3	PRAG	203	Introduction to Precision Agriculture	2
PRAG	203L	Introduction to Precision Agriculture Lab	0	PRAG	203L	Introduction to Precision Agriculture Lab	1
PRAG	340	Climate Risk Management with	3	PRAG	340	Climate Risk Management with	3
11110	510	Precision Agriculture	5	11010	510	Precision Agriculture	5
PS	103	Crop Production (College		<mark>PS</mark>	<mark>103</mark>	Crop Production	2
DC	1021	Requirement)		DC	1021	Crear Drachasting Lab	+ ,
PS	103L	Crop Production Lab (College		<mark>PS</mark>	<mark>103L</mark>	Crop Production Lab	1
DG	212	Requirement)		DC	212		-
PS	213	Soils	2	PS	213	Soils	2
PS	213L	Soils Lab	1	PS	213L	Soils Lab	1
Technic	al Electives		32	Technic	al Electiv		32
		Select 32 credits from the following				Select 32 credits from the following	1
		courses. It is strongly recommended				courses. It is strongly recommended	1
		that students choose one of the				that students choose one of the	1
		following emphasis				following emphasis	
_		areas.		_	L	areas.	
	s Emphasis				s Emphas		
ACCT	211	Principles of Accounting II	3	ACCT	<mark>211</mark>	Principles of Accounting II	- <mark>3</mark>
	271	Farm and Ranch Management	3	AGEC	271	Farm and Ranch Management	3
AGEC	- · •	0					3
AGEC				AGEC/	<mark>352</mark>	Agricultural Law	

Pref.	Num.	Existing Curriculum Title	Cr. Hrs.	Pref.	Num.	posed Curriculum (<mark>highlight changes</mark>) Title	Cr. Hrs.
AGEC	354	Agricultural Marketing and Prices	3	AGEC	354	Agricultural Marketing and Prices	3
				AGEC	<mark>364</mark>	Introduction to Cooperatives	<mark>3</mark>
				AGEC	<mark>371</mark>	Agricultural Business Management	<mark>3</mark>
AGEC	454	Economics of Grain and Livestock Marketing	3	AGEC	454	Economics of Grain and Livestock Marketing	3
		Warketing		AGEC	<mark>471</mark>	Advanced Farm & Ranch Management	<mark>3</mark>
				AGEC	478	Agricultural Finance	3
AGEC	479	Agricultural Policy	3	AGEC	479	Agricultural Policy	3
ECON	201	Principles of Microeconomics	3	ECON	201	Principles of Microceonomics	- <mark>-</mark>
20011	201		0	MGMT		Organization and Management	3
		Any 200 level or above selected from ACCT, AGEC, AS, BADM, BLAW,	10			Any 200 level or above selected from ACCT, AGEC, AS, BADM, BLAW,	3
		DSCI, ECON, ENTR, FIN, MKTG, MGMT, PS, STAT				DSCI, ECON, ENTR, FIN, MKTG, <mark>MGMT,</mark> PS, STAT	
		Science Electives selected from CHEM, PHYS, BIOL, MICR	3			Science Electives selected from CHEM, PHYS, BIOL, MICR	, 3
Farm O	perations E	nphasis		Farm O	perations E	mphasis	
AGEC	271	Farm and Ranch Management	3	AGEC	271	Farm and Ranch Management	3
AGEC	354	Agricultural Marketing and Prices	3	AGEC	354	Ag Marketing and Prices	3
AS	101-101L		3-4	AS	101-101L	Introduction to Animal Science & Lab	3-4
OR		(3,1)		OR		(3,1)	
DS	130-130L	(3,0)		DS	130-130L	Introduction to Dairy Science & Lab (2,1)	
PRAG	423	Soil Fertility and Plant Nutrient	3	PRAG	423	Soil Fertility and Plant Nutrient	3
DC	222	Management	2	DC	202	Management	2
PS PS	223	Principles of Plant Pathology & Lab	3	PS PS	223	Principles of Plant Pathology & Lab	3
OR	405-405L		3	PS OR PS	405-405L	Insect Biology & Lab (3,0)	3
PS PS	407-407L 440-440L		4	PS PS	407-407L 440-440L	Insect Pest Management & Lab (2,1) Crop Management with Precision Ag	4
15	440-440L	Any 200 level or above selected from	10-	15	440-440L	Any 200 level or above selected from	4 8-9
		AGEC, AST, BADM, ACCT, AS, ECON, PS, ENTR	11			AGEC, AST, BADM, ACCT, AS, ECON, PS, ENTR	0-7
		Science Electives, Selected from CHEM, PHYS, BIOL, MICR	2			Science Electives, Selected from CHEM, PHYS, BIOL, MICR	3-4
	n Ag Emph				n Ag Emph		
AST OR	213-213L	Lab (3,0)	3	AST OR	213-213L	Lab (<mark>2,1</mark>)	3
AST	313-313L	& Lab (3,0)		AST	313-313L	Farm Machinery Systems Management & Lab (2,1)	
CSC	130	Visual Basic Programming	3	CSC	130	Visual Basic Programming	3
ET	210	Introduction to Electronic Systems	4	ET	210	Introduction to Electronic Systems	<mark>3</mark>
ET	210	Introduction to Electronic Systems Lab	0	ET	210	Introduction to Electronic Systems Lab	<u>1</u>
ET	232	Digital Electronics & Microprocessors	0	ET	232	Digital Electronics & Microprocessors	2
ET	232L	Digital Electronics & Microprocessors Lab	0	ET	232L	Digital Electronics & Microprocessors Lab	1
ET	240	Techniques of Servicing	3	ET	240	Techniques of Servicing	3
GEOG	372	Introduction to GIS	3	GEOG	372	Introduction to GIS	2
GEOG	372L	Introduction to GIS Lab	0	GEOG	372L	Introduction to GIS Lab	1
GEOG	483	UAS Remote Sensing	3	GEOG	483	UAS Remote Sensing	2 1
GEOG	483L	UAS Remote Sensing Lab	0	GEOG	483L	UAS Remote Sensing Lab	1 2
PRAG	304	Electrical Diagnostics in Farm Machinery	3	PRAG	304	Electrical Diagnostics in Farm Machinery	2
PRAG	304L	Electrical Diagnostics in Farm Machinery Lab	0	PRAG	304L	Electrical Diagnostics in Farm Machinery Lab	1

Pref.	Num.	Title	Cr. Hrs.	Pref.	Prop Num.	Title	Cr. Hr
PRAG	345	Principles and Implications of Chemical Application Systems	3	PRAG	345	Principles and Implications of Chemical Application Systems	<mark>3</mark>
PRAG	345L	Principles and Implications of Chemical Application Systems Lab	0	PRAG	<mark>345L</mark>	Principles and Implications of Chemical Application Systems Lab	<mark>0</mark>
PRAG	423	Soil Fertility and Plant Nutrient Management	3	PRAG	423	Soil Fertility and Plant Nutrient Management	3
PRAG	440	Crop Management with Precision Ag	2	PRAG	440	Crop Management with Precision Ag	2
PRAG	440L	Crop Management with Precision Ag Lab	1	PRAG	440L	Crop Management with Precision Ag Lab	1
STAT	281	Introduction to Statistics	3	STAT	281	Introduction to Statistics	3
		Any 300 level or above selected from AST, CSC, ET, GEOG, PHYS, or PS	1			Any 300 level or above selected from AST, CSC, ET, GEOG, PHYS, or PS	1
	ing Emphas				ing Emphas		
ABE	444	Unit Operations of Biological Materials Processing		ABE	444	Unit Operations of Biological Materials Processing	3
ABE	444L	Unit Operations of Biological Materials Processing Lab	0	ABE	444L	Unit Operations of Biological Materials Processing Lab	1
AS	101-101L		3-4	AS	101-101L		3-4
OR		(3,1)		OR		(3,1)	
DS	130-130L	(3,0)		DS	130-130L	Introduction to Dairy Science & Lab (2,1)	
AS	241	Introduction to Meat Science	3	AS	241	Introduction to Meat Science	<mark>2</mark>
AS	241L	Introduction to Meat Science Lab	0	AS	241L	Introduction to Meat Science Lab	<mark>1</mark>
AS	350	Meat Prod Safety/HACCP	3	AS	350	Meat Prod Safety/HACCP	3
DS	321	Dairy Product Processing I	5	DS	321	Dairy Product Processing I	4
DS	321L	Dairy Product Processing I Lab	0	DS	321L	Dairy Product Processing I Lab	1
DS	421	Dairy Plant Management	4	DS	421	Dairy Plant Management	3
DS	421L	Dairy Plant Management Lab	0	DS	421L	Dairy Plant Management Lab	1
MICR	231	General Microbiology	4	MICR	231	General Microbiology	4
MICR	231L	General Microbiology Lab	0	MICR	231L	General Microbiology Lab	0
MICR	311	Food Microbiology	4	MICR	311	Food Microbiology	2
MICR	311L	Food Microbiology Lab	0	MICR	311L	Food Microbiology Lab	2
PS	308	Grain Grading & Lab	1	PS	308	Grain Grading & Lab	1
PS	308L	Grain Grading Lab	1	PS	308L	Grain Grading Lab	1
Electiv	es		0	Electiv	es		0
	-	Summary of Credits in A	Agricult	tural Sys	tems Tech	nology (B.S.)	<u> </u>
	General Re	•	32	System General Requirements			32
	Requireme		9	College Requirements			<mark>9</mark>
Major F	Requirement	ts	79	Major Requirements			<mark>88</mark>
Elective			0	Electives			0
		l number of hours required for major	111	Total number of hours required for major			10
	Total	number of hours required for degree	120		Total	number of hours required for degree	12

8. Explanation of the Change:

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

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

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 have realigned to the major requirements.

In addition, the Business Emphasis coursework has been expanded to give students more in depth exposure to agricultural business principles.