



**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:	Dairy Manufacturing
CURRENT SPECIALIZATION:	N/A
CIP CODE:	01.0905
UNIVERSITY DEPARTMENT:	Dairy and Food Science
BANNER DEPARTMENT CODE:	SDFS
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

Vice President of Academic Affairs or
President of the University

4/3/2023

Date

1. This modification addresses a change in:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Total credits required within the discipline | <input checked="" type="checkbox"/> Total credits of supportive course work |
| <input checked="" type="checkbox"/> Total credits of elective course work | <input type="checkbox"/> Total credits required for program |
| <input type="checkbox"/> Program name | <input type="checkbox"/> Existing specialization |
| <input type="checkbox"/> CIP Code | <input type="checkbox"/> Other (explain below) |
| <input type="checkbox"/> Modification requiring Board of Regents approval | |

Must have prior approval from Executive Director or designee

2. Effective date of change: 2023-2024 Academic Year

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 will occur:

- ☐ 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 related articulation agreements, site approvals, etc.

6. Is the program being modified associated with a current 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:

Existing Curriculum

Proposed Curriculum (highlight changes)

Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
Systems General Education Requirements			31-34	Systems General Education Requirements			31-34
Systems General Education Requirements – Electives			9	Systems General Education Requirements – Electives			18
						SGR #1	3
						SGR #1	3
						SGR #2	3
		SGR #3	3			SGR #3	3
		SGR #4	3			SGR #4	3
		SGR #4	3			SGR #4	3
Systems General Education Requirements – Required			22-25	Systems General Education Requirements – Required			13-16
ENGL	101	Composition I (SGR #1)	3	ENGL	101	Composition I (SGR #1)	3
ENGL	201	Composition I (3) (SGR #1)	3	ENGL	201	Composition I (3) (SGR #1)	3
CMST	101	Fundamentals of Speech (SGR #2)	3	CMST	101	Fundamentals of Speech (SGR #2)	3
ECON	201	Principles of Microeconomics (3) (SGR #3)	3	ECON	201	Principles of Microeconomics (3) (SGR #3)	3
OR				OR			
ECON	202	Principles of Macroeconomics (3) (SGR #3)		ECON	202	Principles of Macroeconomics (3) (SGR #3)	
MATH	114	College Algebra (3)	3-5	MATH	114	College Algebra (3)	3-5
OR				OR			
MATH	115	Precalculus (5)		MATH	115	Precalculus (5)	
CHEM	106-106L	Chemistry Survey and Lab (3,1)	4	CHEM	106-106L	Chemistry Survey and Lab (3,1)	4
OR				OR			
CHEM	112-112L	General Chemistry and Lab (3, 1)		CHEM	112-112L	General Chemistry and Lab (3, 1)	
BIOL	101-101L	Biology Survey I and Lab (2,1)	3-4	BIOL	101-101L	Biology Survey I and Lab (2,1)	3-4
OR				OR			
BIOL	151-151L	General Biology and Lab (4,0)		BIOL	151-151L	General Biology and Lab (4,0)	
College Requirements			11	College Requirements			11
Students must complete a minimum of 11 credits from the approved list of Group 1 courses in Agriculture, Food and Environmental Science. Some departments require specific courses from the list, whereas others leave the selection entirely to the student and the advisor.				Students must complete a minimum of 11 credits from the approved list of Group 1 courses in Agriculture, Food and Environmental Science. Some departments require specific courses from the list, whereas others leave the selection entirely to the student and the advisor.			
DS	130	Introduction to Dairy Science	3	DS	130	Introduction to Dairy Science	3
DS	130L	Introduction to Dairy Science Lab	0	DS	130L	Introduction to Dairy Science Lab	1
MICR	311	Food Microbiology	4	MICR	311	Food Microbiology	2
MICR	311L	Food Microbiology Lab	0	MICR	311L	Food Microbiology Lab	2
		Group 1 Courses in Agriculture	4			Group 1 Courses in Agriculture	4
Major Requirements			55-56	Major Requirements			68-69
Major Core			40-41	Major Core			47-48
AST	443	Food Processing and Engineering Fundamentals	3	AST	443	Food Processing and Engineering Fundamentals	2
AST	443L	Food Processing and Engineering Fundamentals Lab	0	AST	443L	Food Processing and Engineering Fundamentals Lab	1
BIOL	103-103L	Biology Survey II & Lab (2,1)	3-4	BIOL	103-103L	Biology Survey II & Lab (2,1)	3-4
OR				OR			
BIOL	153-153L	General Biology & Lab (4,0)		BIOL	153-153L	General Biology & Lab (4,0)	
DS	119	First Year Seminar – Dairy and Food Science	2	DS	119	First Year Seminar – Dairy and Food Science	2
				DS	130	Introduction to Dairy Science	2
				DS	130L	Introduction to Dairy Science Lab	1

Existing Curriculum

Proposed Curriculum (highlight changes)

Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
DS	202	Dairy Products Judging	1	DS	202	Dairy Products Judging	1
DS	301	Dairy Microbiology & Lab	4	DS	301	Dairy Microbiology & Lab	2
DS	301L	Dairy Microbiology Lab	0	DS	301L	Dairy Microbiology Lab	2
DS	321	Dairy Products Processing I	5	DS	321	Dairy Products Processing I	4
DS	321L	Dairy Products Processing I Lab	0	DS	321L	Dairy Products Processing I Lab	1
DS	322	Dairy Products Processing II	5	DS	322	Dairy Products Processing II	4
DS	322L	Dairy Products Processing II Lab	0	DS	322L	Dairy Products Processing II Lab	1
DS	400	Dairy Chemistry and Analysis	5	DS	400	Dairy Chemistry and Analysis	3
DS	400L	Dairy Chemistry and Analysis Lab	0	DS	400L	Dairy Chemistry and Analysis Lab	2
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
DS	490	Seminar	1	DS	490	Seminar	1
DS	496	Field Experience	3	DS	496	Field Experience	3
MICR	231	General Microbiology	4	MICR	231	General Microbiology	4
MICR	231	General Microbiology Lab	0	MICR	231	General Microbiology Lab	0
				MICR	311	Food Microbiology	2
				MICR	311L	Food Microbiology Lab	2
Dairy Manufacturing Requirements			15	Dairy Manufacturing Requirements			21
ACCT	210	Principles of Accounting I	3	ACCT	210	Principles of Accounting I	3
CHEM	108	Organic and Biochemistry	4	CHEM	108	Organic and Biochemistry	4
CHEM	108L	Organic and Biochemistry Lab	1	CHEM	108L	Organic and Biochemistry Lab	1
DS	494	Internship (3)	3	DS	494	Internship (3)	3
OR				OR			
DS	498	Undergraduate Research (3)		DS	498	Undergraduate Research (3)	
PHYS	101-101L	Survey of Physics & Lab (4,0)	4	PHYS	101-101L	Survey of Physics & Lab (3,1)	4
OR				OR			
PHYS	111-111L	Introduction to Physics & Lab (4,0)		PHYS	111-111L	Introduction to Physics & Lab (3,1)	
OR				OR			
PHYS	211-211L	University Physics & Lab (4,0)		PHYS	211-211L	University Physics & Lab (4,0)	
						AGEC, ECON, BADM, BLAW, MGMT, MKTG, FIN, DSCI, HRM, STAT, ACCT or ENTR Elective	3
						FS Elective	3
Electives			19-23	Electives			17-21
		Business Elective (any AGECE, ECON, BADM, BLAW, MGMT, MKTG, FIN, DSCI, HRM, STAT, ACCT or ENTR (excludes required courses completed as a program requirement)	3			Business Elective (any AGECE, ECON, BADM, BLAW, MGMT, MKTG, FIN, DSCI, HRM, STAT, ACCT or ENTR (excludes required courses completed as a program requirement)	3
		FS Elective	3			FS Elective	3
		Other electives	13-17			Electives	17-21
Summary of Credits in Dairy Manufacturing (B.S.)							
System General Education Requirements			31-34	System General Education Requirements			31-34
College Requirements			11	College Requirements			11
Major Requirements			55-56	Major Requirements			68-69
Electives			19-23	Electives			17-21
Total number of hours required for major			88-92	Total number of hours required for major			81-85
Total number of hours required for degree			120	Total number of hours required 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 have realigned to the major requirements.

PHYS 211-211 University Physics I & Lab (4, 0) changed from variable (3-4/0-1) to only 4,1 so that common courses will have common credits. A separate 3+1-credit course sequence (PHYS 207-207L Fundamentals of Physics I & Lab) was added in parallel to serve engineering students. PHYS 211-211 University Physics I & Lab has been removed from the program requirements.

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