



**SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS**

Substantive Program Modification Form

UNIVERSITY:	SDSU
CURRENT PROGRAM TITLE:	Dairy Production (B.S.)
CIP CODE:	01.0905
UNIVERSITY DEPARTMENT:	Dairy & Food Science
UNIVERSITY DIVISION:	Agriculture, Food & Environmental Sciences

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

10/14/2018

Vice President of Academic Affairs or
President of the University

Date

1. This modification addresses a change in:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Total credits required within the discipline | <input type="checkbox"/> Total credits of supportive course work |
| <input checked="" type="checkbox"/> Total credits of elective course work | <input checked="" 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) |

2. Effective date of change: 2019-2020 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)

6. Primary Aspects of the Modification:

Existing Curriculum

Proposed Curriculum (Highlight Changes)

Pre	Num	Title	Cr Hrs	Pre	Num	Title	Cr Hrs
System General Education Requirements				System General Education Requirements			
			31-34				31-34
		SGR 1 Written Communication ENGL 101 Composition I (3) ENGL 201 Composition II (3)	6			SGR 1 Written Communication ENGL 101 Composition I (3) ENGL 201 Composition II (3)	6
		SGR 2 Oral Communication SPCM 101 Fundamentals of Speech	3			SGR 2 Oral Communication SPCM 101 Fundamentals of Speech	3
		SGR 3 Social Sciences/Diversity ECON 201 Microeconomics (3) or ECON 202 Macroeconomics (3) and an additional non ECON class	6			SGR 3 Social Sciences/Diversity ECON 201 Microeconomics (3) or ECON 202 Macroeconomics (3) and an additional non ECON class	6
		SGR 4 Arts and Humanities/Diversity	6			SGR 4 Arts and Humanities/Diversity	6
		SGR 5 Mathematics MATH 102 College Algebra (3) OR MATH 115 Precalculus (5)	3-5			SGR 5 Mathematics MATH 102 College Algebra (3) OR MATH 115 Precalculus (5)	3-5

Existing Curriculum

Proposed Curriculum (Highlight Changes)

SGR 6 Natural Sciences			7-8	SGR 6 Natural Sciences			7-8
CHEM 106-106L Chemistry Survey & Lab (4)				CHEM 106-106L Chemistry Survey & Lab (4)			
OR				OR			
CHEM 112-112L General Chemistry I & Lab (4)				CHEM 112-112L General Chemistry I & Lab (4)			
AND				AND			
BIOL 101-101L Biology Survey I & Lab (3)				BIOL 101-101L Biology Survey I & Lab (3)			
OR				OR			
BIOL 151-151L General Biology I & Lab (4)				BIOL 151-151L General Biology I & Lab (4)			
College Requirements			12	College Requirements			12
AGEC	271	Farm and Ranch Management	3	AGEC	271	Farm and Ranch Management	3
AS	319-319L	Livestock Feeds and Feeding & Lab	3	AS	319-319L	Livestock Feeds and Feeding & Lab	3
DS	130-130L	Introduction to Dairy Science & Lab	3	DS	130-130L	Introduction to Dairy Science & Lab	3
PS	103-103L	Crop Production & Lab	3	PS	103-103L	Crop Production & Lab	3
Major Requirements			66-68	Major Requirements			67-69
AS	333-333L	Livestock Reproduction & Lab	3	AS	333-333L	Livestock Reproduction & Lab	3
AS	219	Principles of Animal Nutrition	3	AS	219	Principles of Animal Nutrition	3
AS/AST	463	Agricultural Waste Management	3	AS/ AST	463	Agricultural Waste Management	3
BIOL	103-103L	Biology Survey II & Lab (3)	3-4	BIOL	103-103L	Biology Survey II & Lab (3)	3-4
OR				OR			
BIOL	153-153L	General Biology & Lab (4)		BIOL	153-153L	General Biology & Lab (4)	
BIOL	371	Genetics (3)	3-4	BIOL	371	Genetics (3)	3-4
OR				OR			
AS	332	Livestock Breeding and Genetics (4)		AS	332	Livestock Breeding and Genetics (4)	
CHEM	108-108L	Organic and Biochemistry & Lab	5	CHEM	108-108L	Organic and Biochemistry & Lab	5
DS	119	First Year Seminar – Dairy and Food Science	2	DS	119	First Year Seminar – Dairy and Food Science	2
DS	202	Dairy Products Judging	1	DS	202	Dairy Products Judging	1
DS	301-301L	Dairy Microbiology & Lab	4	DS	301-301L	Dairy Microbiology & Lab	4
DS	311	Dairy Cattle Judging	2	DS	311	Dairy Cattle Judging	2
DS	312-312L	Dairy Cattle Breeding and Evaluation & Lab	4	DS	312-312L	Dairy Cattle Breeding and Evaluation & Lab	4
DS	413	Physiology of Lactation	3	DS	413-413L	Physiology of Lactation & Lab	4
DS	480-480L	Dairy Farm Operations I & Lab	4	DS	480-480L	Dairy Farm Operations I & Lab	4
DS	481-481L	Dairy Farm Operations II & Lab	4	DS	481-481L	Dairy Farm Operations II & Lab	4
DS	490	Seminar	1	DS	490	Seminar	1
DS	494	Internship	3	DS	494	Internship	3
MICR	231-231L	General Microbiology & Lab	4	MICR	231-231L	General Microbiology & Lab	4
PHYS	101-101L	Survey of Physics & Lab (4)	4	PHYS	101-101L	Survey of Physics & Lab (4)	4
OR				OR			
PHYS	111-111L	Introduction to Physics & Lab (4)		PHYS	111-111L	Introduction to Physics & Lab (4)	
OR				OR			
PHYS	211-211L	University Physics & Lab (4)		PHYS	211-211L	University Physics & Lab (4)	
PS	213-213L	Soils and Lab (3)	3	PS	213-213L	Soils and Lab (3)	3
OR				OR			
PS	313	Forage Crop and Pasture Management (3)		PS	313	Forage Crop and Pasture Management (3)	
VET	223-223L	Anatomy and Physiology of Domestic Animals & Lab	4	VET	223-223L	Anatomy and Physiology of Domestic Animals & Lab	4
VET	403	Animal Disease and Their Control	3	VET	403	Animal Disease and Their Control	3
Electives			6-11	Electives			5-10
Summary of Credits for Dairy Production (B.S.)							
System General Education Requirements			31-34	System General Education Requirements			31-34
College Requirements			12	College Requirements			12
Major Requirements			66-68	Major Requirements			67-69
Electives			6-11	Electives			5-10
Total number of hours required for major			66-68	Total number of hours required for major			67-69
Total number of hours required for degree			120	Total number of hours required for degree			120

7. Explanation of the Change:

A laboratory is being added to DS 413-513 (becoming DS 413-413L/DS 513-513L) which is a required course within the major. This will add one additional credit to those required for the major and decrease the general electives available by one credit.