



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

**Substantive Program Modification Form**

<b>UNIVERSITY:</b>	<b>SDSU</b>
<b>CURRENT PROGRAM TITLE:</b>	<b>Dairy Production (B.S.) [S.BS.DPRD]</b>
<b>CIP CODE:</b>	<b>01.0905</b>
<b>UNIVERSITY DEPARTMENT:</b>	<b>Dairy &amp; Food Science</b>
<b>UNIVERSITY DIVISION:</b>	<b>Agriculture &amp; Biological Sciences</b>

**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

5/8/2018

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 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: 2018-2019 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. Primary Aspects of the Modification:**

*Existing Curriculum*

*Proposed Curriculum (Highlight Changes)*

Pre	Num	Title	Cr Hrs	Pre	Num	Title	Cr Hrs
<b>System General Education Requirements</b>				<b>31-34</b>			
SGR 1 Written Communication			6	SGR 1 Written Communication			6
ENGL 101 Composition I (3)				ENGL 101 Composition I (3)			
ENGL 201 Composition II (3)				ENGL 201 Composition II (3)			
SGR 2 Oral Communication			3	SGR 2 Oral Communication			3
SPCM 101 Fundamentals of Speech				SPCM 101 Fundamentals of Speech			
SGR 3 Social Sciences/Diversity			6	SGR 3 Social Sciences/Diversity			6
ECON 202 Macroeconomics (3)				<b>ECON 201 Microeconomics (3) or</b> ECON 202			
and an additional non ECON class				Macroeconomics (3)			

## Existing Curriculum

## Proposed Curriculum (Highlight Changes)

				and an additional non ECON class					
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
SGR 6 Natural Sciences CHEM 106-106L Chemistry Survey & Lab (4) OR CHEM 112-112L General Chemistry I & Lab (4) AND BIOL 101-101L Biology Survey I & Lab (3) OR BIOL 151-151L General Biology I & Lab (4)				7-8	SGR 6 Natural Sciences CHEM 106-106L Chemistry Survey & Lab (4) OR CHEM 112-112L General Chemistry I & Lab (4) AND BIOL 101-101L Biology Survey I & Lab (3) OR BIOL 151-151L General Biology I & Lab (4)				7-8
<b>College Requirements</b>				<b>12</b>	<b>College Requirements</b>				<b>12</b>
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
<b>Major Requirements</b>				<b>65-68</b>	<b>Major Requirements</b>				<b>66-68</b>
DS	119	First Year Seminar – Dairy and Food Science		2	DS	119	First Year Seminar – Dairy and Food Science		2
AS	219	Principles of Animal Nutrition		3	AS	219	Principles of Animal Nutrition		3
AS	333-333L	Livestock Reproduction & Lab		3	AS	333-333L	Livestock Reproduction & Lab		3
AS/AST	463	Agricultural Waste Management		3	AS/ AST	463	Agricultural Waste Management		3
BIOL 103-103L Biology Survey II & Lab (3) OR BIOL 153-153L General Biology & Lab (4)				3-4	BIOL 103-103L Biology Survey II & Lab (3) OR BIOL 153-153L General Biology & Lab (4)				3-4
BIOL 371 Genetics (3) OR AS 332 Livestock Breeding and Genetics (4)				3-4	BIOL 371 Genetics (3) OR AS 332 Livestock Breeding and Genetics (4)				3-4
CHEM 108-108L Organic and Biochemistry & Lab (5) OR CHEM 120-120L Elementary Organic Chemistry & Lab (4)				4-5	CHEM 108-108L Organic and Biochemistry & Lab (5) <del>OR</del> <del>CHEM 120-120L Elementary Organic Chemistry &amp; Lab (4)</del>				5
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	Physiology of Lactation		3
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) OR PHYS 111-111L Introduction to Physics I & Lab (4) OR PHYS 211-211L University Physics I & Lab (4)				4	PHYS 101-101L Survey of Physics & Lab (4) OR PHYS 111-111L Introduction to Physics I & Lab (4) OR PHYS 211-211L University Physics I & Lab (4)				4
PS 213-213L Soils & Lab (3) OR PS 313 Forage Crop and Pasture Management (3)				3	PS 213-213L Soils & Lab (3) OR PS 313 Forage Crop and Pasture Management (3)				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
<b>Electives</b>				<b>6-12</b>	<b>Electives</b>				<b>6-11</b>

## Summary of Credits for Dairy Production (B.S.)

Existing Curriculum		Proposed Curriculum (Highlight Changes)	
<b>System General Education Requirements</b>	<b>31-34</b>	<b>System General Education Requirements</b>	<b>31-34</b>
<b>College Requirements</b>	<b>12</b>	<b>College Requirements</b>	<b>12</b>
<b>Major Requirements</b>	<b>65-68</b>	<b>Major Requirements</b>	<b>66-68</b>
<b>Electives</b>	<b>6-12</b>	<b>Electives</b>	<b>6-11</b>
Total number of hours required for major	65-68	Total number of hours required for major	66-68
Total number of hours required for degree	120	Total number of hours required for degree	120

**7. Explanation of the Change:**

The Department of Dairy and Food Science has reviewed the Dairy Production major. The following changes have been identified:

- Removed CHEM 120-120L Elementary Organic Chemistry & Lab (4). The Department of Chemistry & Biochemistry will no longer offer this course.
- Added ECON 201 Microeconomics as a course that may satisfy SGR #3 for the program. ECON 202 was required partly because it also fulfilled the Globalization requirement. As the Globalization requirement no longer exists, providing students the option of taking either ECON 201 or 202 will give them more flexibility in their curriculum.