



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

**Substantive Program Modification Form**

<b>UNIVERSITY:</b>	SDSU
<b>CURRENT PROGRAM TITLE:</b>	Animal Science (B.S.) - Science Specialization
<b>CIP CODE:</b>	01.0901 – Animal Science Major 01.0901 – Science Specialization
<b>UNIVERSITY DEPARTMENT:</b>	Animal Science
<b>BANNER DEPARTMENT CODE:</b>	SANS
<b>UNIVERSITY DIVISION:</b>	Agriculture, Food & Environmental Sciences
<b>BANNER DIVISION CODE:</b>	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

3/25/2020

Date

**1. This modification addresses a change in:**

- |   |   |
|---|---|
| <input 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 checked="" type="checkbox"/> Existing specialization                 |
| <input type="checkbox"/> CIP Code   | <input type="checkbox"/> Other (explain below)                              |

**2. Effective date of change:** 2020-2021 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:

**6. Primary Aspects of the Modification:**

*Existing Curriculum*

*Proposed Curriculum (highlight changes)*

Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.		
<b>System General Education Requirement</b>				<b>33-34</b>	<b>System General Education Requirement</b>				<b>32-34</b>
		SGR Goal 1 Written Communication: ENGL 101 English Composition I (3) ENGL 201 English Composition II (3)	6			SGR 1 Written Communication: ENGL 101 English Composition I (3) ENGL 201 English Composition II (3)	6		
		SGR 2 Oral Communication: SPCM 101 Fundamentals of Speech	3			SGR 2 Oral Communication: SPCM 101 Fundamentals of Speech (3)	3		

## Existing Curriculum

## Proposed Curriculum (highlight changes)

Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
SGR 3		Social Sciences/Diversity <i>Science Specialization:</i> ABS 203 Global Food Systems (3) AND ECON 201 Principles of Microeconomics (3)	6	SGR 3		Social Sciences/Diversity <i>Science Specialization:</i> <b>ABS 203 Global Food Systems (3) Student Choice (3)</b> AND ECON 201 Principles of Microeconomics (3)	6
SGR 4		Arts and Humanities/Diversity Student Choice	6	SGR 4		Arts and Humanities/Diversity Student Choice	6
SGR 5		Mathematics: <i>Science Specialization:</i> MATH 121 Survey of Calculus and Lab (5) OR MATH 123 Calculus I (4)	4-5	SGR 5		Mathematics: <i>Science Specialization:</i> <b>MATH 114 College Algebra (3)</b> OR MATH 121 Survey of Calculus and Lab (5) OR MATH 123 Calculus I (4)	3-5
SGR 6		Natural Sciences: <i>Science Specialization:</i> BIOL 151-151L General Biology I & Lab (4) BIOL 153-153L General Biology II & Lab (4)	8	SGR 6		Natural Sciences: <i>Science Specialization:</i> BIOL 151-151L General Biology I & Lab (4) BIOL 153-153L General Biology II & Lab (4)	8
<b>College Requirements</b>			<b>0</b>	<b>College Requirements</b>			<b>1</b>
Group 1 Courses from the College of Agriculture and Biological Sciences. ABS 203 Global Food Systems (3) (SGR #3) AS 101-101L Introduction to Animal Science and Lab (4) (Major Requirements) AS 241-241L Introduction to Meat Science and Lab (3) (Major Requirements) AS 319-319L Livestock Feeds and Feeding (3) (Major Requirements)			0	Group 1 Courses from the College of Agriculture and Biological Sciences. <b>Select from Group 1 Courses (1)</b> <b>ABS 203 Global Food Systems (3) (SGR #3)</b> AS 101-101L Introduction to Animal Science and Lab (4) (Major Requirements) AS 241-241L Introduction to Meat Science and Lab (3) (Major Requirements) AS 319-319L Livestock Feeds and Feeding (3) (Major Requirements)			1
<b>Major Requirements</b>			<b>76-78</b>	<b>Major Requirements</b>			<b>76-78</b>
<b>Animal Science Core Requirements</b>			<b>32-34</b>	<b>Animal Science Core Requirements</b>			<b>32-34</b>
ACCT	210	Principles of Accounting I		ACCT	210	Principles of Accounting I	3
AS	101-101L	Introduction to Animal Science and Lab	3, 1	AS	101-101L	Introduction to Animal Science and Lab	3, 1
AS	119	Opportunities in Animal and Veterinary Sciences	1	AS	119	Opportunities in Animal and Veterinary Sciences	1
AS OR VET	120 120	Survey of Animal Science (1) Introduction to Veterinary Science (1)	1	AS OR VET	120 120	Survey of Animal Science (1) Introduction to Veterinary Science (1)	1
AS	319-319L	Livestock Feeds and Feeding and Lab	3	AS	319-319L	Livestock Feeds and Feeding and Lab	3
AS	241-241L	Introduction to Meat Science and Lab	3	AS	241-241L	Introduction to Meat Science and Lab	3
AS	219	Principles of Animal Nutrition	3	AS	219	Principles of Animal Nutrition	3
AS	332	Livestock Breeding and Genetics	4	AS	332	Livestock Breeding and Genetics	4
AS	333-333L	Livestock Reproduction and Lab	3	AS	333-333L	Livestock Reproduction and Lab	3
AS	389	Current Issues in Animal Science	3	AS	389	Current Issues in Animal Science	3
VET	403	Animal Diseases and their Control	3	VET	403	Animal Diseases and their Control	3
		Select one of the following: ABS 482 International Experience AS 322 Advanced Livestock Evaluation AS 400 Judging Team AS 491 Independent Study AS 494 Internship AS 498 Undergraduate Research/Scholarship	1-3			Select one of the following: ABS 482 International Experience AS 322 Advanced Livestock Evaluation AS 400 Judging Team <b>AS 491 Independent Study</b> AS 494 Internship AS 498 Undergraduate Research/Scholarship	1-3
<b>Animal Science - Science Specialization</b>			<b>44</b>	<b>Animal Science - Science Specialization</b>			<b>44</b>

## Existing Curriculum

Proposed Curriculum (**highlight changes**)

Pref.	Num.	Title	Cr. Hrs.	Pref.	Num.	Title	Cr. Hrs.
		Select <u>6</u> credits from the following courses: **Restriction: one course must be AS 474-474L, AS 475, AS 476-476L, AS 477-477L, or AS 478-478L) AS 476-476L Horse Production and Lab (3) AS 445-445L Value-Added Meat Products and Lab (3) AS 450 Meat Product Safety and HACCP (3) AS 474-474L Cow/Calf Management and Lab (3) AS 475-475L Feedlot Operations and Management and Lab (3) AS 477-477L Sheep and Wool Production and Lab (3) AS 478-478L Swine Production and Lab (3)	6			Select <u>6</u> credits from the following courses: **Restriction: one course must be AS 474-474L, AS 475, AS 476-476L, AS 477-477L, or AS 478-478L) AS 476-476L Horse Production and Lab (3) AS 445-445L Value-Added Meat Products and Lab (3) AS 450 Meat Product Safety and HACCP (3) AS 474-474L Cow/Calf Management and Lab (3) AS 475-475L Feedlot Operations and Management and Lab (3) AS 477-477L Sheep and Wool Production and Lab (3) AS 478-478L Swine Production and Lab (3)	6
CHEM	112	General Chemistry I & Lab	4	CHEM	112	General Chemistry I & Lab	4
CHEM	114	General Chemistry II & Lab	4	CHEM	114	General Chemistry II & Lab	4
CHEM	326	Organic Chemistry I & Lab	4	CHEM	326	Organic Chemistry I & Lab	4
CHEM	328	Organic Chemistry II & Lab	4	CHEM	328	Organic Chemistry II & Lab	4
CHEM	464	Biochemistry I & Lab	3	CHEM	464	Biochemistry I & Lab	3
MICR OR MICR	231-231L  233-233L	General Microbiology & Lab (4)  Introductory Microbiology and Lab (4)	4	MICR OR MICR	231-231L  233-233L	General Microbiology & Lab (4)  Introductory Microbiology and Lab (4)	4
NRM OR STAT	282-282L  281	Natural Resource Statistics and Lab (3)  Introduction to Statistics (3)	3	NRM OR STAT	282-282L  281	Natural Resource Statistics and Lab (3)  Introduction to Statistics (3)	3
PHYS AND PHYS OR PHYS AND PHYS	111-111L  113-113L  211-211L  213-213L	Intro to Physics I & Lab (4)  Intro to Physics II & Lab (4)  University Physics I & Lab (4)  University Physics II & Lab (4)	8	PHYS AND PHYS OR PHYS AND PHYS	111-111L  113-113L  211-211L  213-213L	Intro to Physics I & Lab (4)  Intro to Physics II & Lab (4)  University Physics I & Lab (4)  University Physics II & Lab (4)	8
VET	223	Anat. & Phys. Of Livestock & Lab	4	VET	223	Anat. & Phys. of Livestock & Lab	4
<b>Electives</b>			<b>8-11</b>	<b>Electives</b>			<b>7-11</b>
<b>Summary of Credits Animal Science (B.S.) – Science Specialization</b>							
<b>System General Education Requirement</b>			<b>33-34</b>	<b>System General Education Requirement</b>			<b>32-34</b>
<b>College Requirements</b>			<b>0</b>	<b>College Requirements</b>			<b>1</b>
<b>Major Requirements</b>			<b>76-78</b>	<b>Major Requirements</b>			<b>76-78</b>
<b>Electives</b>			<b>8-11</b>	<b>Electives</b>			<b>7-11</b>
Total number of hours required for specialization			76-78	Total number of hours required for specialization			76-78
Total number of hours required for degree			120	Total number of hours required for degree			120

**7. Explanation of the Change:**

Allowing student choice in selecting a course to meet SGR #3 and SGR #5 provides greater ease in scheduling and course selection based on student interest.