

ANIMAL AND VETERINARY SCIENCE (B.S.A.V.S.)

Required course work includes the university requirements (see regulation J-3 (<https://catalog.uidaho.edu/general-requirements-academic-procedures/j-general-requirements-baccalaureate-degrees/>)) and completion of one of the following four options:

Code	Title	Hours
AVS 109	The Science of Animals that Serve Humanity	4
AVS 110	Science of Animal Husbandry	3
AVS 110L	Science of Animal Husbandry Lab	1
AVS 305	Animal Nutrition	4
AVS 371 & AVS 373	Anatomy and Physiology and Anatomy and Physiology Lab	4
BIOL 115	Cells and the Evolution of Life	3
BIOL 115L	Cells and the Evolution of Life Laboratory	1
COMM 101	Fundamentals of Oral Communication	2
STAT 251	Statistical Methods	3
ENGL 313 or ENGL 317	Business Writing or Technical Writing	3
Select one of the following:		3-4
MATH 143	College Algebra	
MATH 160	Survey of Calculus	
MATH 170	Calculus I	
Select one of the following options:		27-65
Business (p. 1)		
Dairy Science (p. 1)		
Production (p. 1)		
Science/Preveterinary (p. 2)		
Total Hours		58-97

A. Business Option

Code	Title	Hours
ACCT 201	Introduction to Financial Accounting	3
ACCT 202	Introduction to Managerial Accounting	3
AGEC 278	Farm and Agribusiness Management	4
AGEC 289	Agricultural Markets and Prices	3
AVS 306	Feeds and Ration Formulation	4
AVS 363	Animal Products for Human Consumption	4
AVS 450	Issues in Animal Agriculture	2
BLAW 265	Legal Environment of Business	3
CHEM 275	Carbon Compounds	3
ECON 201	Principles of Macroeconomics	3
ECON 202	Principles of Microeconomics	3
AGEC 301 or AGECE 302	Managerial Economics: Production or Managerial Economics: Consumption & Markets	3
AVS 222 or AVS 452	Animal Reproduction and Breeding or Physiology of Reproduction	3-4
CHEM 101 or CHEM 111	Introduction to Chemistry or General Chemistry I	3
CHEM 101L	Introduction to Chemistry Laboratory	1

or CHEM 111L General Chemistry I Laboratory		
AVS 472 or AVS 474	Dairy Cattle Management or Beef Cattle Science	3
Select 6 credits of Business Electives		6
Select 6 credits of Upper Division Agricultural Economics		6
Select one of the following:		3
AVS 466	Equine Science and Management	
AVS 472	Dairy Cattle Management	
AVS 474	Beef Cattle Science	
AVS 476	Sheep Science	
Total Hours		63-64

Courses to total 120 credits for this degree

B. Dairy Science Option

Code	Title	Hours
AGEC 278	Farm and Agribusiness Management	4
AGEC 289	Agricultural Markets and Prices	3
AVS 172	Principles and Practices of Dairy Science	2
AVS 306	Feeds and Ration Formulation	4
AVS 330	Genetics of Livestock Improvement	3
AVS 363	Animal Products for Human Consumption	4
AVS 411	Ruminant Nutrition	3
AVS 450	Issues in Animal Agriculture	2
AVS 463	Growth and Lactation	3
AVS 471	Animal Disease Management	3
AVS 472	Dairy Cattle Management	3
AVS 475	Advanced Dairy Management	3
CHEM 275	Carbon Compounds	3
ECON 202	Principles of Microeconomics	3
AVS 222 or AVS 452	Animal Reproduction and Breeding or Physiology of Reproduction	3-4
CHEM 101 or CHEM 111	Introduction to Chemistry or General Chemistry I	3
CHEM 101L or CHEM 111L	Introduction to Chemistry Laboratory or General Chemistry I Laboratory	1
EPPN 154 or BIOL 250	Microbiology and the World Around Us or General Microbiology	3
EPPN 155 or BIOL 255	Microbiology and the World Around Us: Laboratory or General Microbiology Lab	1
Total Hours		54-55

Courses to total 120 credits for this degree

C. Production Option

Code	Title	Hours
AGEC 278	Farm and Agribusiness Management	4
AGEC 289	Agricultural Markets and Prices	3
AVS 306	Feeds and Ration Formulation	4
AVS 330	Genetics of Livestock Improvement	3
AVS 363	Animal Products for Human Consumption	4
AVS 411	Ruminant Nutrition	3
AVS 450	Issues in Animal Agriculture	2

AVS 471	Animal Disease Management	3
CHEM 275	Carbon Compounds	3
ECON 202	Principles of Microeconomics	3
REM 151	Rangeland Principles	3
AVS 222	Animal Reproduction and Breeding	3-4
or AVS 452	Physiology of Reproduction	
CHEM 101	Introduction to Chemistry	3
or CHEM 111	General Chemistry I	
CHEM 101L	Introduction to Chemistry Laboratory	1
or CHEM 111L	General Chemistry I Laboratory	
EPPN 154	Microbiology and the World Around Us	3
or BIOL 250	General Microbiology	
EPPN 155	Microbiology and the World Around Us: Laboratory	1-2
or BIOL 255	General Microbiology Lab	
AVS 472	Dairy Cattle Management	3
or AVS 474	Beef Cattle Science	
Select a 300 or 400 level Life Science Elective from one of the following subjects:		3
BIOL (https://catalog.uidaho.edu/courses/biol/)		
ENT (https://catalog.uidaho.edu/courses/ent/)		
FISH (https://catalog.uidaho.edu/courses/fish/)		
PLSC (https://catalog.uidaho.edu/courses/plsc/)		
REM (https://catalog.uidaho.edu/courses/rem/)		
SOIL (https://catalog.uidaho.edu/courses/soil/)		
WLF (https://catalog.uidaho.edu/courses/wlf/)		
Select one of the following:		3
AVS 466	Equine Science and Management	
AVS 472	Dairy Cattle Management	
AVS 474	Beef Cattle Science	
AVS 476	Sheep Science	
Total Hours		55-57

Courses to total 120 credits for this degree**D. Science/Preveterinary Option**

Code	Title	Hours
AVS 452	Physiology of Reproduction	4
BIOL 114	Organisms and Environments	4
CHEM 111	General Chemistry I	3
CHEM 111L	General Chemistry I Laboratory	1
CHEM 112	General Chemistry II	3
CHEM 112L	General Chemistry II Laboratory	2
CHEM 277	Organic Chemistry I	3
CHEM 278	Organic Chemistry I: Lab	1
PHYS 111	General Physics I	3
PHYS 111L	General Physics I Lab	1
PHYS 112	General Physics II	3
PHYS 112L	General Physics II Lab	1
EPPN 154	Microbiology and the World Around Us	3
or BIOL 250	General Microbiology	
EPPN 155	Microbiology and the World Around Us: Laboratory	1-2
or BIOL 255	General Microbiology Lab	
BIOL 300	Survey of Biochemistry	3-4

or BIOL 380	Biochemistry I	
Select one of the following:		3-4
BIOL 310	Genetics	
& BIOL 315	and Genetics Lab	
GENE 314	General Genetics	
First Year in Veterinary School (32 credits) or the following courses		
AVS 306	Feeds and Ration Formulation	4
AVS 330	Genetics of Livestock Improvement	3
AVS 450	Issues in Animal Agriculture	2
AVS 471	Animal Disease Management	3
Select one of the following:		3
AVS 411	Ruminant Nutrition	
AVS 463	Growth and Lactation	
AVS 475	Advanced Dairy Management	
BIOL 432	Immunology	
BIOL 447	Virology	
BIOL 474	Developmental Biology	
BIOL 483	Mammalogy	
CHEM 372	Organic Chemistry II	
AVS 472	Dairy Cattle Management	3
or AVS 474	Beef Cattle Science	
Select one of the following:		3
AVS 466	Equine Science and Management	
AVS 472	Dairy Cattle Management	
AVS 474	Beef Cattle Science	
AVS 476	Sheep Science	
Total Hours		60-63

Courses to total 120 credits for this degree**Business Option**

1. Students will demonstrate basic knowledge of biological systems and its application in animal production, and will demonstrate in-depth knowledge of animal physiology, nutrition, breeding, and genetics.
2. Students will demonstrate information gathering, critical thinking, and demonstrate the ability to write and present scientific information in a professional manner.
3. Junior and senior students will demonstrate knowledge of animal production systems, production management skills, and the economic principles and practices essential for successful livestock production in senior animal production and management courses.
4. Senior students will demonstrate their critical thinking and soft skills ability through communication, presentations, teamwork, and leadership.