

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 the following course work and one of the following four options:

Code	Title	Hours
AVFS 101	Introduction to Animal, Veterinary and Food Sciences	1
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 306	Feeds & Ration Formulation	3
AVS 306L	Feeds and Ration Formulation Laboratory	1
AVS 452	Physiology of Reproduction (AVS 452 required for PreVet Option)	3-4
or AVS 222	Animal Reproduction and Breeding	
AVS 330	Genetics of Livestock Improvement	3
AVS 371 & AVS 373	Anatomy and Physiology and Anatomy and Physiology Lab (AVS 371 & AVS 373 required for PreVet Option)	3-4
or AVS 267	Anatomy and Physiology of Domestic Animals	
AVS 450	Issues in Animal Agriculture	2
Select two of the following (one has to be AVS 472 or AVS 474)		6
AVS 466	Equine Science and Management	
AVS 472	Dairy Cattle Management (Required for Dairy Science Option)	
AVS 474	Beef Cattle Science	
AVS 476	Sheep Science	
BIOL 115	Cells and the Evolution of Life	3
BIOL 115L	Cells and the Evolution of Life Laboratory	1
Choose one of the following:		4
CHEM 101 & 101L	Introduction to Chemistry and Introduction to Chemistry Laboratory	
CHEM 111 & 111L	General Chemistry I and General Chemistry I Laboratory (CHEM 111 & CHEM 111L required for PreVet Option)	
CHEM 277	Organic Chemistry I (CHEM 277 required for PreVet Option)	3
or CHEM 275	Carbon Compounds	
ENGL 317	Technical Writing II (ENGL 317 required for PreVet Option)	3
or ENGL 313	Business Writing	
STAT 251	Statistical Methods	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:		36-41
Business (p. 1)		

Dairy Science (p. 1)	
Production (p. 2)	
Science/Preveterinary (p. 2)	
Total Hours	90-98

A. Business Option

Code	Title	Hours
Select at least two of the following:		4-5
AVS 172	Principles and Practices of Dairy Science	
AVS 263	Live Animal and Carcass Evaluation	
AVS 268	Companion Animal Diseases	
AVS 274	Beef Feedlot Systems	
Select at least 14 credits of Upper Division Animal Science courses:		14
AVS 301	Undergraduate Research in Animal Science (6 credits max)	
AVS 317	Artificial Insemination and Pregnancy Detection	
AVS 318	Beef Calving Management	
AVS 363	Animal Products for Human Consumption	
AVS 411	Ruminant Nutrition	
AVS 463	Growth and Lactation	
AVS 471	Animal Disease Management	
AVS 475	Advanced Dairy Management	
AVS Third Species Production Course		
REM 300+ Rangeland Ecology and Management		
AGEC 278	Farm and Agribusiness Management	4
AGEC 289	Agricultural Markets and Prices	3
ECON 202	Principles of Microeconomics	3
Select at least 6 credits with at least 1 ACCT course:		6
ACCT 201	Introduction to Financial Accounting	
ACCT 202	Introduction to Managerial Accounting	
BUS 190	Integrated Business and Value Creation	
BLAW 265	Legal Environment of Business	
Select at least 6 credits of Upper Division Business Electives from the following subjects:		6
AGEC		
ACCT		
BLAW		
BUS		
ECON		
ENTR		
FIN		
MIS		
MHR		
MKTG		
OM		
Total Hours		40-41

Courses to total 120 credits for this degree

B. Dairy Science Option

Code	Title	Hours
AVS 172	Principles and Practices of Dairy Science	2
Select at least one of the following:		2-3

AVS 263	Live Animal and Carcass Evaluation	
AVS 268	Companion Animal Diseases	
AVS 274	Beef Feedlot Systems	
AVS 363	Animal Products for Human Consumption	4
AVS 411	Ruminant Nutrition	3
AVS 463	Growth and Lactation	3
AVS 471	Animal Disease Management	3
AVS 475	Advanced Dairy Management	3
Select at least 3 credits of Upper Division Animal Science courses:		3
AVS 301	Undergraduate Research in Animal Science (6 credits max)	
AVS 317	Artificial Insemination and Pregnancy Detection	
AVS 318	Beef Calving Management	
AVS Third Species Production Course		
REM 300+ Rangeland Ecology and Management		
AGEC 278	Farm and Agribusiness Management	4
AGEC 289	Agricultural Markets and Prices	3
ECON 202	Principles of Microeconomics	3
EPPN 154	Microbiology and the World Around Us	3
or BIOL 250	General Microbiology	
EPPN 155	Microbiology and the World Around Us: Laboratory	1
or BIOL 255	General Microbiology Lab	
Total Hours		37-38

Courses to total 120 credits for this degree

C. Production Option

Code	Title	Hours
Select at least two of the following: 4-5		
AVS 172	Principles and Practices of Dairy Science	
AVS 263	Live Animal and Carcass Evaluation	
AVS 268	Companion Animal Diseases	
AVS 274	Beef Feedlot Systems	
Select at least 16 credits of Upper Division Animal Science courses:		16
AVS 301	Undergraduate Research in Animal Science (6 credits max)	
AVS 317	Artificial Insemination and Pregnancy Detection	
AVS 318	Beef Calving Management	
AVS 363	Animal Products for Human Consumption	
AVS 411	Ruminant Nutrition	
AVS 463	Growth and Lactation	
AVS 471	Animal Disease Management	
AVS 475	Advanced Dairy Management	
AVS Third Species Production Course		
REM 300+ Rangeland Ecology and Management		
AGEC 278	Farm and Agribusiness Management	4
AGEC 289	Agricultural Markets and Prices	3
ECON 202	Principles of Microeconomics	3
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	

REM 151	Rangeland Principles	3
Total Hours		37-39

Courses to total 120 credits for this degree

D. Science/Preveterinary Option

Code	Title	Hours
Select at least two of the following: 4-6		
AVS 172	Principles and Practices of Dairy Science	
AVS 222	Animal Reproduction and Breeding	
AVS 263	Live Animal and Carcass Evaluation	
AVS 267	Anatomy and Physiology of Domestic Animals	
AVS 268	Companion Animal Diseases	
AVS 274	Beef Feedlot Systems	
PHYS 112	General Physics II	
PHYS 112L	General Physics II Lab	
Select at least 9 credits with at least 6 credits of Upper Division Animal Science courses:		9
AVS 301	Undergraduate Research in Animal Science (3 credits max)	
AVS 317	Artificial Insemination and Pregnancy Detection	
AVS 318	Beef Calving Management	
AVS 363	Animal Products for Human Consumption	
AVS 411	Ruminant Nutrition	
AVS 463	Growth and Lactation	
AVS 471	Animal Disease Management	
AVS 475	Advanced Dairy Management	
AVS Third Species Production Course		
BIOL 432	Immunology	
BIOL 447	Virology	
BIOL 474	Developmental Biology	
BIOL 483	Mammalogy	
CHEM 372	Organic Chemistry II	
REM 300+ Rangeland Ecology and Management		
BIOL 114	Organisms and Environments	4
BIOL 300	Survey of Biochemistry	3-4
or BIOL 380	Biochemistry I	
CHEM 112	General Chemistry II	4
CHEM 112L	General Chemistry II Laboratory	1
CHEM 278	Organic Chemistry I: 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	
PHYS 111	General Physics I	3
PHYS 111L	General Physics I Lab	1
Select one of the following: 3		
BIOL 310	Genetics	
& BIOL 315	and Genetics Lab	
GENE 314	General Genetics	
Total Hours		37-41

Courses to total 120 credits for this degree

Business Option

Fall Term 1		Hours
AVS 109	The Science of Animals that Serve Humanity	4
ENGL 101	Writing and Rhetoric I	3
AVFS 101	Introduction to Animal, Veterinary and Food Sciences	1
(CHEM 101 AND CHEM 101L) OR (CHEM 111 AND CHEM 111L)		4
MATH 143 OR MATH 160 OR MATH 170		3
Hours		15
Spring Term 1		Hours
AVS 110	Science of Animal Husbandry	3
AVS 110L	Science of Animal Husbandry Lab	1
BIOL 115	Cells and the Evolution of Life	3
BIOL 115L	Cells and the Evolution of Life Laboratory	1
ENGL 102	Writing and Rhetoric II	3
Oral Communication Course		2
Humanistic and Artistic Ways of Knowing Course		3
Hours		16
Fall Term 2		Hours
AGEC 278	Farm and Agribusiness Management	4
ECON 202	Principles of Microeconomics	3
STAT 251	Statistical Methods	3
ACCT 201 OR ACCT 202		3
AVS 172 OR AVS 263 OR AVS 268 OR AVS 274		2
Hours		15
Spring Term 2		Hours
AGEC 289	Agricultural Markets and Prices	3
AVS 222 OR AVS 452		3
(AVS 371 AND AVS 373)		3
CHEM 275 OR CHEM 277		3
AVS 172 OR AVS 263 OR AVS 268 OR AVS 274		2
ACCT 201 OR ACCT 202 OR BLAW 265 OR BUS 190		3
Hours		17
Fall Term 3		Hours
AVS 305	Animal Nutrition	4
AVS 330	Genetics of Livestock Improvement	3
American Diversity Course		3
UPDV AVS, Major Elective Course		3
Hours		13
Spring Term 3		Hours
AVS 306	Feeds & Ration Formulation	3
AVS 306L	Feeds and Ration Formulation Laboratory	1
UPDV AVS, Major Elective Course		4
Social and Behavioral Ways of Knowing Course		3
ENGL 313 OR ENGL 317		3
Hours		14
Fall Term 4		Hours
Elective Course		4
UPDV AVS, Major Elective Course		3
Business Elective, Major Elective Course		3
Humanistic and Artistic Ways of Knowing Course		3
AVS 466 OR AVS 472		3
Hours		16
Spring Term 4		Hours
AVS 450	Issues in Animal Agriculture	2
UPDV AVS, Major Elective Course		3
UPDV Business, Major Elective Course		3
International Course		3
AVS 474 OR AVS 476		3
Hours		14
Total Hours		120

Dairy Science Option

Fall Term 1		Hours
AVFS 101	Introduction to Animal, Veterinary and Food Sciences	1
AVS 109	The Science of Animals that Serve Humanity	4
AVS 172	Principles and Practices of Dairy Science	2
ENGL 101	Writing and Rhetoric I	3
(CHEM 101 AND CHEM 101L) OR (CHEM 111 AND CHEM 111L)		4
MATH 143 OR MATH 160 OR MATH 170		3
Hours		17
Spring Term 1		Hours
AVS 110	Science of Animal Husbandry	3
AVS 110L	Science of Animal Husbandry Lab	1
BIOL 115	Cells and the Evolution of Life	3
BIOL 115L	Cells and the Evolution of Life Laboratory	1
ENGL 102	Writing and Rhetoric II	3
American Diversity Course		3
Oral Communication Course		2
Hours		16
Fall Term 2		Hours
ECON 202	Principles of Microeconomics	3
STAT 251	Statistical Methods	3
AGEC 278	Farm and Agribusiness Management	4
Humanistic and Artistic Ways of Knowing Course		3
AVS 263 OR AVS 268 OR AVS 274		2
Hours		15
Spring Term 2		Hours
AGEC 289	Agricultural Markets and Prices	3
AVS 222 OR AVS 452		3
CHEM 275 OR CHEM 277		3
(EPPN 154 AND EPPN 155) OR (BIOL 250 AND BIOL 255)		4
(AVS 371 AND AVS 373)		3
Hours		16
Fall Term 3		Hours
AVS 305	Animal Nutrition	4
AVS 330	Genetics of Livestock Improvement	3
Social and Behavioral Ways of Knowing Course		3
Elective Course		4
Hours		14
Spring Term 3		Hours
AVS 306	Feeds & Ration Formulation	3
AVS 306L	Feeds and Ration Formulation Laboratory	1
AVS 363	Animal Products for Human Consumption	4
AVS 471	Animal Disease Management	3
ENGL 313 OR ENGL 317		3
Hours		14
Fall Term 4		Hours
AVS 450	Issues in Animal Agriculture	2
AVS 472	Dairy Cattle Management	3
AVS 463	Growth and Lactation	3
Humanistic and Artistic Ways of Knowing Course		3
Elective Course		2
Hours		13
Spring Term 4		Hours
AVS 475	Advanced Dairy Management	3
AVS 411	Ruminant Nutrition	3
International Course		3
UPDV AVS or REM, Major Elective Course		3
AVS 466 OR AVS 474 OR AVS 476		3
Hours		15
Total Hours		120

Production Option

Fall Term 1		Hours
AVFS 101	Introduction to Animal, Veterinary and Food Sciences	1
AVS 109	The Science of Animals that Serve Humanity	4
ENGL 101	Writing and Rhetoric I	3
REM 151	Rangeland Principles	3
MATH 143 OR MATH 160 OR MATH 170		3
Hours		14
Spring Term 1		
AVS 110	Science of Animal Husbandry	3
AVS 110L	Science of Animal Husbandry Lab	1
ENGL 102	Writing and Rhetoric II	3
Oral Communication Course		2
AVS 172 OR AVS 263 OR AVS 268 OR AVS 274		2
(CHEM 101 AND CHEM 101L) OR (CHEM 111 AND CHEM 111L)		4
Hours		15
Fall Term 2		
AGEC 278	Farm and Agribusiness Management	4
ECON 202	Principles of Microeconomics	3
STAT 251	Statistical Methods	3
BIOL 115	Cells and the Evolution of Life	3
BIOL 115L	Cells and the Evolution of Life Laboratory	1
AVS 172 OR AVS 263 OR AVS 268 OR AVS 274		3
Hours		17
Spring Term 2		
AGEC 289	Agricultural Markets and Prices	3
AVS 222 OR AVS 452		3
(AVS 371 AND AVS 373)		3
(CHEM 277 AND CHEM 278)		3
(EPPN 154 AND EPPN 155) OR (BIOL 250 AND BIOL 255)		4
Hours		16
Fall Term 3		
AVS 305	Animal Nutrition	4
AVS 330	Genetics of Livestock Improvement	3
Humanistic and Artistic Ways of Knowing Course		3
Social and Behavioral Ways of Knowing Course		3
(AVS 371 AND AVS 373)		4
Hours		17
Spring Term 3		
AVS 306	Feeds & Ration Formulation	3
AVS 306L	Feeds and Ration Formulation Laboratory	1
UPDV AVS elective, Major Elective Course		3
UPDV AVS elective, Major Elective Course		3
ENGL 313 OR ENGL 317		3
Hours		13
Fall Term 4		
AVS 450	Issues in Animal Agriculture	2
International Course		3
UPDV AVS elective, Major Elective Course		3
2 credits Elective Course		2
AVS 466 OR AVS 472		3
Hours		13
Spring Term 4		
UPDV AVS elective, Major Elective Course		3
UPDV AVS/REM, Major Elective Course		3
American Diversity Course		3
Humanistic and Artistic Ways of Knowing Course		3
AVS 474 OR AVS 476		3
Hours		15
Total Hours		120

Science/Preveterinary Option

Fall Term 1		Hours
AVFS 101	Introduction to Animal, Veterinary and Food Sciences	1
AVS 109	The Science of Animals that Serve Humanity	4
BIOL 114	Organisms and Environments	4
ENGL 101	Writing and Rhetoric I	3
MATH 143 OR MATH 160 OR MATH 170		3
Hours		15
Spring Term 1		
AVS 110	Science of Animal Husbandry	3
AVS 110L	Science of Animal Husbandry Lab	1
CHEM 111	General Chemistry I	3
CHEM 111L	General Chemistry I Laboratory	1
ENGL 102	Writing and Rhetoric II	3
COMM 101	Fundamentals of Oral Communication	3
Hours		14
Fall Term 2		
BIOL 115	Cells and the Evolution of Life	3
BIOL 115L	Cells and the Evolution of Life Laboratory	1
CHEM 112	General Chemistry II	4
CHEM 112L	General Chemistry II Laboratory	1
STAT 251	Statistical Methods	3
Humanistic and Artistic Ways of Knowing Course		3
AVS 172 OR AVS 222 OR AVS 263 OR AVS 267 OR AVS 268		2
Hours		17
Spring Term 2		
CHEM 277	Organic Chemistry I	3
CHEM 278	Organic Chemistry I: Lab	1
AVS Elective, Major Elective Course		3
AVS Elective, Major Elective Course		3
(EPPN 154 AND EPPN 155) OR (BIOL 250 AND BIOL 255)		4
Hours		14
Fall Term 3		
AVS 305	Animal Nutrition	4
AVS 330	Genetics of Livestock Improvement	3
AVS 371	Anatomy and Physiology	3
AVS 373	Anatomy and Physiology Lab	1
PHYS 111	General Physics I	3
PHYS 111L	General Physics I Lab	1
Social and Behavioral Ways of Knowing Course		3
Hours		18
Spring Term 3		
AVS 306	Feeds & Ration Formulation	3
AVS 306L	Feeds and Ration Formulation Laboratory	1
ENGL 317	Technical Writing II	3
PHYS 112 & 112L	General Physics II and General Physics II Lab	4
Humanistic and Artistic Ways of Knowing Course		3
(BIOL 310 AND BIOL 315)		3
Hours		17
Fall Term 4		
AVS 452	Physiology of Reproduction	4
American Diversity Course		3
BIOL 300 OR BIOL 380		3
AVS 466 OR AVS 472		3
Hours		13
Spring Term 4		
AVS 450	Issues in Animal Agriculture	2
International Course		3
UPDV AVS elective, Major Elective Course		3
UPDV AVS elective, Major Elective Course		3

AVS 474 OR AVS 476	3
Hours	14
Total Hours	122

The degree map is a guide for the timely completion of your curricular requirements. Your academic advisor or department may be contacted for assistance in interpreting this map. This map is not reflective of your academic history or transcript and it is not official notification of completion of degree or certificate requirements. Please contact the Registrar's Office regarding your official degree/certificate completion status.

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.