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

Required course work includes the university requirements (see regulation J-3) and completion of the following course work and one of the following four options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVFS 101</td>
<td>Introduction to Animal, Veterinary and Food Sciences</td>
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<td>AVS 109</td>
<td>The Science of Animals that Serve Humanity</td>
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<td>AVS 110</td>
<td>Science of Animal Husbandry</td>
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<td>AVS 110L</td>
<td>Science of Animal Husbandry Lab</td>
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<td>AVS 305</td>
<td>Animal Nutrition</td>
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<td>AVS 306</td>
<td>Feeds &amp; Ration Formulation</td>
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<tr>
<td>AVS 306L</td>
<td>Feeds and Ration Formulation Laboratory</td>
<td>1</td>
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<td>AVS 305</td>
<td>Physiology of Reproduction (AVS 452 required for PreVet Option)</td>
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<tr>
<td>or AVS 222</td>
<td>Animal Reproduction and Breeding</td>
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<td>AVS 330</td>
<td>Genetics of Livestock Improvement</td>
<td>3</td>
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<td>AVS 371</td>
<td>Anatomy and Physiology</td>
<td>3-4</td>
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<tr>
<td>&amp; AVS 373</td>
<td>and Anatomy and Physiology Lab (AVS 371 &amp; AVS 373 required for PreVet Option)</td>
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<tr>
<td>or AVS 267</td>
<td>Anatomy and Physiology of Domestic Animals</td>
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<tr>
<td>AVS 450</td>
<td>Issues in Animal Agriculture</td>
<td>2</td>
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</tbody>
</table>

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
- BIOL 115L Cells and the Evolution of Life Laboratory

Choose one of the following: 4

- CHEM 101 Introduction to Chemistry and Introduction to Chemistry Laboratory
- CHEM 111 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)
- or CHEM 275 Carbon Compounds
- ENGL 317 Technical Writing (ENGL 317 required for PreVet Option)
- or ENGL 313 Business Writing
- STAT 251 Statistical Methods

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

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<td>AVS 172</td>
<td>Principles and Practices of Dairy Science</td>
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<tr>
<td>AVS 263</td>
<td>Live Animal and Carcass Evaluation</td>
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<td>AVS 268</td>
<td>Companion Animal Husbandry</td>
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<tr>
<td>AVS 274</td>
<td>Beef Feedlot Systems</td>
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</table>

Select at least two of the following: 4-5

- 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
- AGEC 289 Agricultural Markets and Prices
- ECON 202 Principles of Microeconomics

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

<table>
<thead>
<tr>
<th>Code</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>AVS 172</td>
<td>Principles and Practices of Dairy Science</td>
<td>2</td>
</tr>
</tbody>
</table>

Select at least one of the following: 2-3

Business (p. 1)
AVS 263  Live Animal and Carcass Evaluation  
AVS 268  Companion Animal Diseases  
AVS 274  Beef Feedlot Systems  
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  
Select at least 3 credits of Upper Division Animal Science courses:  
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  
AGEC 289  Agricultural Markets and Prices  
ECON 202  Principles of Microeconomics  
EPPN 154  Microbiology and the World Around Us  
or BIOL 250  General Microbiology  
EPPN 155  Microbiology and the World Around Us: Laboratory  
or BIOL 255  General Microbiology Lab  
Total Hours 37-38

Courses to total 120 credits for this degree

C. Production Option

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  
AGEC 289  Agricultural Markets and Prices  
ECON 202  Principles of Microeconomics  
or BIOL 250  General Microbiology  
EPPN 154  Microbiology and the World Around Us  
or BIOL 255  General Microbiology Lab  
Total Hours 37-38

Courses to total 120 credits for this degree

D. Science/Pre-veterinary Option

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  
CHEM 372  Organic Chemistry II  
REM 300+ Rangeland Ecology and Management  
BIOL 114  Organisms and Environments  
or BIOL 380  Biochemistry I  
CHEM 112  General Chemistry II  
CHEM 112L  General Chemistry II Laboratory  
CHEM 278  Organic Chemistry II Lab  
EPPN 154  Microbiology and the World Around Us  
or BIOL 250  General Microbiology  
EPPN 155  Microbiology and the World Around Us: Laboratory  
or BIOL 255  General Microbiology Lab  
EPPN 154  Microbiology and the World Around Us: Laboratory  
or BIOL 255  General Microbiology Lab  
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

<table>
<thead>
<tr>
<th>Fall Term 1</th>
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<td>AVS 109 The Science of Animals that Serve Humanity</td>
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<tr>
<td>ENGL 101 Writing and Rhetoric I</td>
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<td>AVFS 101 Introduction to Animal, Veterinary and Food Sciences</td>
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<td>Spring Term 1</td>
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<td>AVS 110 Science of Animal Husbandry</td>
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<tr>
<td>AVS 110L Science of Animal Husbandry Lab</td>
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<td>BIOL 115 Cells and the Evolution of Life</td>
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<td>BIOL 115L Cells and the Evolution of Life Laboratory</td>
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<td>ENGL 102 Writing and Rhetoric II</td>
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<td>Oral Communication Course</td>
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<td>Humanistic and Artistic Ways of Knowing Course</td>
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<td>AGEC 278 Farm and Agribusiness Management</td>
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<tr>
<td>ECON 202 Principles of Microeconomics</td>
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<td>STAT 251 Statistical Methods</td>
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<td>ACCT 201 OR ACCT 202</td>
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<td>AVS 172 OR AVS 263 OR AVS 268 OR AVS 274</td>
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<td>AGEC 289 Agricultural Markets and Prices</td>
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<td>AVS 222 OR AVS 452</td>
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<td>(AVS 371 AND AVS 373)</td>
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<td>CHEM 275 OR CHEM 277</td>
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<td>AVS 172 OR AVS 263 OR AVS 268 OR AVS 274</td>
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<td>AVS 305 Animal Nutrition</td>
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<td>AVS 330 Genetics of Livestock Improvement</td>
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<td>American Diversity Course</td>
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<td>AVS 306 Feeds &amp; Ration Formulation</td>
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<td>Social and Behavioral Ways of Knowing Course</td>
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<td>AVS 472 Dairy Cattle Management</td>
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<td>AVS 463 Growth and Lactation</td>
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### Dairy Science Option

<table>
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<tr>
<th>Fall Term 1</th>
<th>Hours</th>
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<td>AVFS 101 Introduction to Animal, Veterinary and Food Sciences</td>
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<tr>
<td>AVS 109 The Science of Animals that Serve Humanity</td>
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<tr>
<td>AVS 172 Principles and Practices of Dairy Science</td>
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<td>AVS 110 Science of Animal Husbandry</td>
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<tr>
<td>AVS 110L Science of Animal Husbandry Lab</td>
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<tr>
<td>BIOL 115 Cells and the Evolution of Life</td>
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<td>BIOL 115L Cells and the Evolution of Life Laboratory</td>
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<td>ENGL 102 Writing and Rhetoric II</td>
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<td>American Diversity Course</td>
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<td>ECON 202 Principles of Microeconomics</td>
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<td>STAT 251 Statistical Methods</td>
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<td>Humanistic and Artistic Ways of Knowing Course</td>
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<td>AGEC 289 Agricultural Markets and Prices</td>
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<td>AVS 222 OR AVS 452</td>
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<td>AVS 305 Animal Nutrition</td>
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<td>AVS 330 Genetics of Livestock Improvement</td>
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<td>AVS 306 Feeds &amp; Ration Formulation</td>
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<td>AVS 463 Growth and Lactation</td>
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<td>AVS 475 Advanced Dairy Management</td>
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<td>AVS 411 Ruminant Nutrition</td>
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<tr>
<td>AVS 466 OR AVS 474 OR AVS 476</td>
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<tr>
<td>Total Hours</td>
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## Production Option

### Fall Term 1
- AVFS 101 Introduction to Animal, Veterinary and Food Sciences
- AVS 109 The Science of Animals that Serve Humanity
- ENGL 101 Writing and Rhetoric I
- REM 151 Rangeland Principles
- MATH 143 OR MATH 160 OR MATH 170

**Hours**

### Spring Term 1
- AVS 110 Science of Animal Husbandry
- AVS 110L Science of Animal Husbandry Lab
- ENGL 102 Writing and Rhetoric II
- Oral Communication Course
- AVS 172 OR AVS 263 OR AVS 268 OR AVS 274
- (AVS 101 AND CHEM 101L) OR (AVS 111 AND CHEM 111L)

**Hours**

### Fall Term 2
- AGECD 278 Farm and Agribusiness Management
- ECON 202 Principles of Microeconomics
- STAT 251 Statistical Methods
- BIOL 115 Cells and the Evolution of Life
- BIOL 115L Cells and the Evolution of Life Laboratory
- AVS 172 OR AVS 263 OR AVS 268 OR AVS 274

**Hours**

### Spring Term 2
- AGECD 289 Agricultural Markets and Prices
- AVS 222 OR AVS 452
- (AVS 371 AND AVS 373)
- (CHEM 277 AND CHEM 278)
- (EPPN 154 AND EPPN 155) OR (BIOL 250 AND BIOL 255)

**Hours**

### Fall Term 3
- AVS 305 Animal Nutrition
- AVS 330 Genetics of Livestock Improvement
- Humanistic and Artistic Ways of Knowing Course
- Social and Behavioral Ways of Knowing Course
- (AVS 371 AND AVS 373)

**Hours**

### Spring Term 3
- AVS 306 Feeds & Ration Formulation
- AVS 306L Feeds and Ration Formulation Laboratory
- UPDV AVS elective, Major Elective Course
- UPOV AVS elective, Major Elective Course
- ENGL 313 OR ENGL 317

**Hours**

### Fall Term 4
- AVS 450 Issues in Animal Agriculture
- International Course
- UPDV AVS elective, Major Elective Course
- 2 credits Elective Course
- AVS 466 OR AVS 472

**Hours**

### Spring Term 4
- UPDV AVS elective, Major Elective Course
- UPDV AVS/REM, Major Elective Course
- American Diversity Course
- Humanistic and Artistic Ways of Knowing Course
- AVS 474 OR AVS 476

**Hours**

### Total Hours

120

## Science/Preveternery Option

### Fall Term 1
- AVFS 101 Introduction to Animal, Veterinary and Food Sciences
- AVS 109 The Science of Animals that Serve Humanity
- BIOL 114 Organisms and Environments
- ENGL 101 Writing and Rhetoric I
- MATH 143 OR MATH 160 OR MATH 170

**Hours**

### Spring Term 1
- AVS 110 Science of Animal Husbandry
- AVS 110L Science of Animal Husbandry Lab
- CHEM 111 General Chemistry I
- CHEM 111L General Chemistry I Laboratory
- ENGL 102 Writing and Rhetoric II
- COMM 101 Fundamentals of Oral Communication
- AVS 172 OR AVS 222 OR AVS 263 OR AVS 267 OR AVS 268

**Hours**

### Fall Term 2
- BIOL 115 Cells and the Evolution of Life
- BIOL 115L Cells and the Evolution of Life Laboratory
- CHEM 112 General Chemistry II
- CHEM 112L General Chemistry II Laboratory
- STAT 251 Statistical Methods
- Humanistic and Artistic Ways of Knowing Course
- AVS 172 OR AVS 222 OR AVS 263 OR AVS 267 OR AVS 268

**Hours**

### Spring Term 2
- CHEM 277 Organic Chemistry I
- CHEM 278 Organic Chemistry I Lab
- AVS Elective, Major Elective Course
- AVS Elective, Major Elective Course
- (EPPN 154 AND EPPN 155) OR (BIOL 250 AND BIOL 255)

**Hours**

### Fall Term 3
- AVS 305 Animal Nutrition
- AVS 330 Genetics of Livestock Improvement
- AVS 371 Anatomy and Physiology
- AVS 373 Anatomy and Physiology Lab
- PHYS 111 General Physics I
- PHYS 111L General Physics I Lab
- Social and Behavioral Ways of Knowing Course

**Hours**

### Spring Term 3
- AVS 306 Feeds & Ration Formulation
- AVS 306L Feeds and Ration Formulation Laboratory
- ENGL 317 Technical Writing
- PHYS 112 General Physics II
- & 112L General Physics II Lab
- Humanistic and Artistic Ways of Knowing Course
- (BIOL 310 AND BIOL 315)

**Hours**

### Fall Term 4
- AVS 450 Issues in Animal Agriculture
- International Course
- UPDV AVS elective, Major Elective Course
- UPDV AVS elective, Major Elective Course

**Hours**

### Spring Term 4
- AVS 452 Physiology of Reproduction
- American Diversity Course
- BIOL 300 OR BIOL 380
- AVS 466 OR AVS 472

**Hours**

### Total Hours

120
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.