ANIMAL SCIENCE TECHNOLOGY, Animal Science

College of the Environment & Life Sciences (CELS)

UC Advisor: Tony Mallilo, tonym@uri.edu, 874-4658
Option: Animal Science
Credits: 120

The Major: The Animal Science option includes coursework in animal nutrition, anatomy and physiology, behavior, and disease in both large and small animals. Students will emphasize in one or more of these areas. Students in this option seek employment in animal/biotechnology facilities or continue their studies at the graduate level.

Career Options: Careers in animal sciences are numerous. Graduates typically find employment in zoos, aquariums, pharmaceutical companies, pet food companies, federal, state, and local opportunities dealing with disease control and public health, and in teaching and research or as veterinary technicians.

Transfer out of UC: Must have completed at least 24 credits, minimum GPA of 2.00, and received permission from the UC major advisor.

The following is an example of the typical course schedule for the first 4 semesters for a student majoring in Animal Science. These are recommended course selections for AVS majors in University College; there will be variation based on course availability and schedule restraints. Some classes are not offered every semester. It is important to plan ahead and consult with your advisor to allow yourself time to enroll in the classes you wish to take.

<table>
<thead>
<tr>
<th>Semester I (Fall)</th>
<th>Semester II (Spring)</th>
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<tbody>
<tr>
<td>URI 101 Freshman at URI</td>
<td>AVS 110 AVS Freshman Seminar 1</td>
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<tr>
<td>AVS 101 Intro. to Animal Science</td>
<td>MTH 131 or Gen Ed.(S, A, L, F) 3</td>
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<td>AVS 102 Intro. to Animal Science Lab</td>
<td>WRT 104 Composition 3</td>
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<tr>
<td>BIO 101 Principles of Biology 1</td>
<td>CHM 101, 102 Chemistry I &amp; Lab 4</td>
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<td>MTH 111 Pre-Calculus or 131 Calculus</td>
<td>AVS Concentration. 3</td>
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<tr>
<td>COM 100 Oral Communication</td>
<td>AVS Supporting Elective 3</td>
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<td><strong>Total credits: 15</strong></td>
<td><strong>Total credits: 17</strong></td>
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<th>Semester III (Fall)</th>
<th>Semester IV (Spring)</th>
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<tr>
<td>AVS Concentration</td>
<td>MIC 201 Intro Medical Microbiology</td>
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<tr>
<td>AVS Supporting Elective</td>
<td>or MIC 211 Intro to Microbiology 4</td>
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<tr>
<td>CHM 112/114 Chemistry II &amp; Lab</td>
<td>CHM 124/126 Intro Organic Chem, Lab 4</td>
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<tr>
<td>General Ed. (Cat.S, A, L, or F)</td>
<td>or CHM 227 Organic Chemistry I 3</td>
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<tr>
<td><strong>Total credits: 16</strong></td>
<td>AVS Concentration 3</td>
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<tr>
<td></td>
<td>General Ed. (Cat. S, A, L, or F) 3</td>
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<td><strong>Total credits:16-17</strong></td>
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Supporting Electives:
Any course taught in CELS or The College of Business
Math
Statistics
Anthropology
Computer Science
Chemistry

Concentration (300 level or above)
Six classes must be in AVS

List of AVS courses for all options:

AVS 101 Introduction to Animal Science
AVS 102 Introduction to Animal Science Lab
AVS 110 Freshman Seminar in AVS
AVS 132 Animal Agriculture, Food Policy, and Society
AVS 201 Companion Animal Management
AVS 212 Feeds and Feeding
AVS 301302 Junior/Senior Seminar in AVS
AVS 304 Animal Management Techniques
AVS 323 Animal Management I (Ruminants)
AVS 324 Animal Management II (Monogastrics)
AVS 325 Animal Management III (Exotics)
AVS 331/333 Anatomy & Physiology (Lect. & Lab)
AVS 332 Animal Diseases
AVS 340 Veterinary Pharmacology
AVS 343 Behavior of Domestic Animals
AVS 372 Introductory Endocrinology
AVS 390 Wildlife and Human Disease
AVS 399 (RDE 486) Internship in AVS
AVS 412 Animal Nutrition
AVS 420 Animal Genetics and Breeding
AVS 440 Seminar on Marine Mammals
AVS 462 Laboratory Animal Techniques
AVS 472/473 Physiology of Reproduction (Lect. & Lab)
AVS 491/492 Special Projects

List of courses for AVS options:

Pre Vet/Graduate/Animal Science
BIO 101 Principles of Biology I
BIO 102 Principles of Biology II
BIO 341 Principles of Cell Biology
BIO 352 General Genetics
BIO 437 Fund. of Molecular Bio
BCH 311 Intro. Biochemistry
CHM 101 General Chemistry I
CHM 102 Gen. Chem. Lab I
CHM 112 General Chemistry II
CHM 114 Gen. Chem. Lab II
CHM 226 Organic Chem Lab
CHM 227 Organic Chemistry I
CHM 228 Organic Chemistry II
ECN 100 Intro to Economics
MIC 201 Intro Medical Micro or
MIC 211 Intro. Microbiology
MTH 131 Calculus I
PHY 111 General Physics I
PHY 112 General Physics II
PHY 185 General Physics Lab I
PHY 186 General Physics Lab II
STA 307 Introd. Biostatistics or
STA 308 Introductory Statistics or
STA 409 Stat. Meth. in Research
WRT 333 Scientific Writing

Animal Management
CHM 103 Introductory Chemistry
CHM 105 Introductory Chem Lab
CHM 124 Intro. To Organic Chem
CHM 126 Intro to Org. Chem Lab