ANIMAL SCIENCE TECHNOLOGY, Pre-Veterinary
College of the Environment & Life Sciences (CELS)

UC Advisor: Dr. Tony Mallilo, tonym@uri.edu, 874-4658
Option: Pre-Veterinary
Credits: 120

The Major: The Pre-veterinary Program is designed to prepare students for admission to schools of veterinary medicine. Animal health is an integral part of animal science and the veterinarian is the key professional in the field. Admissions to schools offering the DVM degree requires superior academic achievement, completion of undergraduate coursework, and knowledge and experience in the field of veterinary medicine. Extracurricular activities and personal qualities are also taken into consideration. Admission to veterinary school is highly competitive and students are encouraged to explore secondary career objectives. Those who are not accepted for veterinary training will be well prepared to pursue graduate programs in animal physiology and health.

Career Options: Careers in animal sciences are numerous. Veterinarians work in private practice—either in small or large animal medicine, in federal, state, and local assignments dealing with disease control and public health, and in teaching and research. Food and drug companies hire veterinarians for product development and testing.

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

OPTION: Pre-Veterinary/Pre-Graduate School

General Education (36)_________
C: COM 100_____(3), CW:WRT_____(3)
M: MTH 131_____ (3)
N: BIO 101____(3), BIO 102____(3)
S: ________, ________(6)
L: ________, ________(6)
A: ________, ________(6)
F: ________, ________(6)

(15 credits from L, A, and F)

Concentration* (25)_________
AVS 331/3____(4) AVS__________(3)
AVS 332____(3) AVS__________(3)
AVS 412_____ (3) ____________ (3)
AVS 472/_______(4) BIO 341____(3)

Supporting Electives (11)_________
AVS 104______ (2) BUS or ECN____ (3)
AVS _________ ( ) ______________ ( )

Intro. Prof. Courses (4-5)_________
AVS 101 (3)______, AVS 102 (1)______
AVS 110 (1)______,

Free Electives (4)_________
URI 101______(1) _________ ( )
______________ ( ) _________ ( )

Basic Sciences (40)_________
**120 credits required

Required:
BIO 103 (1)______, BIO 104 (1)______
BIO 352 (4)______
BCH 311 (3)______,
CHM 101 (3)______, CHM 102 (1)______
CHM 112 (3)______, CHM 114 (1)______
CHM 226 (2)______, CHM 227 (3)______, CHM 228 (3)______
MIC 201 (4)______, or MIC 211 (4)______
PHY 111 (3)______, PHY 185 (1)______
PHY 112 (3)______, PHY 186 (1)______
STA 307 (3)______, or STA 308 (4)______, or STA 409 (3)______

*Six classes must be in AVS. **Maximum of 9 credits in AVS 399, 491, 492 and RDE 486.

ADVISING COMMENTS:
Supporting Electives:
Any course with the prefix:
AFS, APG, AVS, BIO, BCH, BUS, CHM, CSC, ECN, EEC, GEO, LAR, MAF, MIC, MTH, NFS, NRS, PHY, PLS, RDE, REN, STA

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 301/302 Junior/Senior Seminar in AVS
AVS 104 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/Animal Science**
BIO 101/103 Principles of Biology I
BIO 102/104 Principles of Biology II
BIO 341 Principles of Cell Biology
BIO 352 General Genetics
BIO 437 Fund. of Molecular Bio
BCH 311 Introd. 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 Introd. Mircrobiology
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
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<tr>
<th>Freshmen I (15)</th>
<th>Freshmen II (16)</th>
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<tbody>
<tr>
<td>URI 101: Traditions and Transformations: Freshmen Seminar</td>
<td>AVS Concentration</td>
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<tr>
<td>AVS 101, AVS 102: Introduction to Animal Science, Lab</td>
<td>BIO 102/104: Principles of Biology II</td>
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<td>BIO 101/103: Principles of Biology I</td>
<td>STA 307 or 308: Introductory Biostatistics or Introductory Statistics</td>
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<td>COM 100: Communication Fundamentals</td>
<td>WRT 104: Writing to Inform and Explain</td>
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<td>MTH 131: Applied Calculus</td>
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<tr>
<td>PHY 111/185: Physics I/Lab</td>
<td>CHM 112/114: General Chemistry Lecture/Lab</td>
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<td>Gen Ed (cat. S, A, L, or F)</td>
<td>PHY 112/186: Physics II/ Lab</td>
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<td>AVS 331/333: Anatomy and Physiology</td>
<td>BIO 453: Cell Biology</td>
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<td>MIC 201 or 211: Introductory Medical Microbiology or Introductory Microbiology</td>
<td>AVS Supporting Elective</td>
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<td>BIO 352: Genetics</td>
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<tr>
<td>AVS Supporting Elective</td>
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