APPLIED ANIMAL SCIENCE: ANIMAL AGRICULTURE CONCENTRATION (A.A.S.)

https://colsa.unh.edu/tsas/aas/animal-agriculture

Description

The production of meat, milk and fiber from animals is expected to continue to grow for decades to come. Students interested in working in the highly technical, rapidly changing field of farm animal production and management, must become well versed in the many species of farm animals, including breeding, feeding, health care, housing and marketing. In the animal agriculture concentration, students apply many of the skills learned in the classroom on farms in the first few semester of the program. Students learn to work safely with farm livestock and poultry. They visit farms and engage in hands-on activities with their instructors. Students will learn to balance rations, identify and treat diseases, learn to design appropriate buildings, fences, and properly take of the land and environment necessary to support farm animals. Students visit and interact with nearby farms with beef, sheep, goats and swine.

Students also have the opportunity to work and study at the University’s farms. UNH maintains two modern and well-equipped dairy teaching and research centers, and as an option students interested in dairy cattle can also collaborate to manage the CREAM (Cooperative for Real Education in Agriculture) herd. All students will also study at the UNH Organic Dairy Research Farm (http://www.colsa.unh.edu/nhaes/odrf). Students will have the chance to also work with horses, sheep, and poultry on campus.

Students learn the business of farming through field exercises in land management, forage production, financial management, and computer use on a farm as well as through continued practical experience with farm livestock, poultry and dairy cattle. The program prepares students to work both on the farm and in related businesses.

The Thompson School’s Animal Agriculture program is in a unique position with the baccalaureate animal science major. Students may start with the Thompson School program, obtain their associate in applied science (A.A.S.) degree then transfer to a four-year major and obtain a B.S. in two to two additional years with a full-time course of study. This allows students to receive two degrees in as little as four years or obtain their A.A.S. degree and work in the field to later return for a B.S. Students wishing to follow this course of action need to work closely with their adviser and maintain a grade of C or better in key applied animal science courses.

Career Opportunities

Herd manager, agricultural sales and/or service employee, farm manager, artificial insemination (AI) technician, crop manager, farm owner, or farm-business owner.

Requirements

Admissions Requirements

Applicants to the applied animal science program area must present four years of college preparatory English and at least two years, preferably three years of satisfactory work in college preparatory science (one of the sciences being biology, with a lab). One year of laboratory college preparatory chemistry is highly recommended. Also required are three years of Social Science, and three years of college preparatory Mathematics, and SAT/ACT.

Applied Animal Science Curriculum Standards

Applied Animal Science (AAS) students must maintain a minimum 2.0 cumulative grade-point average in AAS classes after two semesters (minimum 26 credits) to take additional AAS classes. Students with AAS averages lower than 2.0 must repeat classes with lower grades and raise their average to the required 2.0 before taking additional AAS classes. Students must have a minimum cumulative 2.0 grade-point average in AAS classes to qualify for graduation from the program.

All Applied Animal Science students are required to take:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AAS 423</td>
<td>Dairy Selection</td>
<td>2</td>
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<tr>
<td>AAS 428</td>
<td>Anatomy and Physiology of Domestic Animals and Anatomy and Physiology of Domestic Animals Lab for VTEC majors</td>
<td>4</td>
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<tr>
<td>AAS 432</td>
<td>Introduction to Forage and Grassland Management</td>
<td>3</td>
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<tr>
<td>AAS 434</td>
<td>Equipment and Facilities Management</td>
<td>3</td>
</tr>
<tr>
<td>AAS 574</td>
<td>Dairy Cattle Disease Seminar</td>
<td>2</td>
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<tr>
<td>or AAS 527</td>
<td>Companion Animal Diseases</td>
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<tr>
<td>AAS 597</td>
<td>Applied Animal Science Work Experience</td>
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<tr>
<td>ABM 404A</td>
<td>Introduction to Business I</td>
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<tr>
<td>&amp; ABM 404B</td>
<td>and Introduction to Business II</td>
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<tr>
<td>or BUS 410</td>
<td>Introduction to Entrepreneurship</td>
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<tr>
<td>or ADMN 502</td>
<td>Financial Accounting</td>
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<tr>
<td>ANSC 421</td>
<td>Introduction to Animal Science</td>
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<tr>
<td>ANSC 543</td>
<td>Technical Writing in Animal Sciences</td>
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<tr>
<td>ANSC 546</td>
<td>Animal Business Applications</td>
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<tr>
<td>ANSC 698</td>
<td>Cooperative for Real Education in Agricultural Management (CREAM)</td>
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<tr>
<td>or ANSC 605</td>
<td>Poultry Production and Health Management</td>
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<tr>
<td>or ANSC 547</td>
<td>Applied Equine Management</td>
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<tr>
<td>or AAS 402</td>
<td>Introduction to Livestock and Poultry Management</td>
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<tr>
<td>ENGL 401</td>
<td>First-Year Writing</td>
<td>4</td>
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<tr>
<td>PAUL 450</td>
<td>Personal Finance (or other Quantitative Reasoning Discovery)</td>
<td>4</td>
</tr>
<tr>
<td>VTEC 435</td>
<td>Animal Health and Laboratory Diagnostics</td>
<td>4</td>
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</table>

Discovery Social Science 4
Discovery Course 4
Elective Course 4
Elective 4
Total Credits 64

20 credits of Discovery courses are required, including Writing Skills (ENGL 401), Biological Science (VTEC 435), Quantitative Reasoning (PAUL 450 or other), Social Science, and Discovery elective.

¹ ANSC 698 CREAM must be taken both Fall and Spring semesters

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**Degree Plan**

**Animal Agriculture Program of Study**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>First Year</strong></td>
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<tr>
<td><strong>Fall</strong></td>
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<td>AAS 428 &amp; 428B</td>
<td>Anatomy and Physiology of Domestic Animals and Anatomy and Physiology of Domestic Animals Lab for VTEC majors</td>
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<td>ANSC 421</td>
<td>Introduction to Animal Science</td>
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<td>ENGL 401</td>
<td>First-Year Writing (DISC)</td>
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<td>Discovery Course</td>
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<td><strong>Credits</strong></td>
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<td>16</td>
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<tr>
<td><strong>Spring</strong></td>
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</tr>
<tr>
<td>AAS 423</td>
<td>Dairy Selection</td>
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</tr>
<tr>
<td>AAS 434</td>
<td>Equipment and Facilities Management</td>
<td>3</td>
</tr>
<tr>
<td>ABM 404A &amp; ABM 404B or BUS 410 or ADMN 502</td>
<td>Introduction to Business I or Introduction to Entrepreneurship or Financial Accounting</td>
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<tr>
<td>VTEC 435</td>
<td>Animal Health and Laboratory Diagnostics (BS Discovery)</td>
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<tr>
<td>Discovery Course - Social Science</td>
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<td><strong>Credits</strong></td>
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**Second Year**

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<td><strong>Fall</strong></td>
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<td></td>
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<tr>
<td>AAS 432</td>
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<td>AAS 597</td>
<td>Applied Animal Science Work Experience</td>
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<td>ANSC 698 or ANSC 605 or ANSC 547</td>
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<tr>
<td>Discovery Course (Quantitative Reasoning) (PAUL 450 or other)</td>
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