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

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

Description

The production or 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 weeks of the program. Students learn to work safely with farm livestock and poultry. They visit farms, engage in hands-on activities weekly with their instructors. Students will 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 maintain a small poultry flock, 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 dairy and equine farms. UNH Maintains two modern and well-equipped 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) (http://colsa.unh.edu/tsas/cream) herd. All students will also study at the UNH Organic Dairy Research Farm (http://colsa.unh.edu/article/2012/10/organic-dairy-research-farm).

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-and-a-half 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

Candidates for a degree must satisfy all of the Thompson School of Applied Science General Education requirements in addition to satisfying the requirements of the Applied Animal Science Animal Agriculture program. Animal Agriculture students are required to take:

<table>
<thead>
<tr>
<th>Course</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>
</tr>
<tr>
<td>AAS 425 or AAS 402</td>
<td>Introduction to Dairy Herd Management or Introduction to Livestock and Poultry Management</td>
<td>4</td>
</tr>
<tr>
<td>AAS 428</td>
<td>Anatomy and Physiology of Domestic Animals</td>
<td>3</td>
</tr>
<tr>
<td>AAS 428A</td>
<td>Anatomy and Physiology of Domestic Animals Lab for AAS majors</td>
<td>1</td>
</tr>
<tr>
<td>AAS 431</td>
<td>Introduction to Animal Science</td>
<td>4</td>
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Degree Plan

Animal Agriculture Program of Study

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AAS 425 or AAS 402</td>
<td>Introduction to Dairy Herd Management or Introduction to Livestock and Poultry Management</td>
<td>4</td>
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<td>AAS 428</td>
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1 Applied Business Management (ABM) (http://catalog.unh.edu/undergraduate/course-descriptions/abm) courses, offerings vary by semester.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>COM 209</td>
<td>Expository Writing and Reading</td>
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**Spring**

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<thead>
<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>AAS 423</td>
<td>Dairy Selection</td>
<td>2</td>
</tr>
<tr>
<td>AAS 434</td>
<td>Equipment and Facilities Management</td>
<td>3</td>
</tr>
<tr>
<td>AAS 439</td>
<td>Fundamentals of Animal Health</td>
<td>2</td>
</tr>
<tr>
<td>AAS 439A</td>
<td>Fundamentals of Animal Health Lab for Applied Animal Science Majors</td>
<td>1</td>
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<tr>
<td>ABM 404A</td>
<td>Introduction to Business I</td>
<td>2</td>
</tr>
<tr>
<td>COM 210</td>
<td>Public Speaking or Writing in the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>MTH 202</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>2-4</td>
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**Credits**

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<tbody>
<tr>
<td>Fall</td>
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<td>18-20</td>
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**Second Year**

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<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AAS 432</td>
<td>Introduction to Forage and Grassland Management</td>
<td>3</td>
</tr>
<tr>
<td>AAS 535</td>
<td>Animal Nutrition</td>
<td>3</td>
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<tr>
<td>AAS 546</td>
<td>Animal Business Applications</td>
<td>4</td>
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<td>Choose One of the Following:</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>Applied Business Management Elective</td>
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<tr>
<td>AAS 597</td>
<td>Applied Animal Science Work Experience</td>
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<tr>
<td>SSCI 201</td>
<td>Human Relations</td>
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**Credits**

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<tbody>
<tr>
<td>Spring</td>
<td></td>
<td>18</td>
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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>AAS 540</td>
<td>Animal Breeding</td>
<td>3</td>
</tr>
<tr>
<td>AAS 574</td>
<td>Dairy Cattle Disease Seminar</td>
<td>2</td>
</tr>
<tr>
<td>or ANSC 625</td>
<td>Diseases of Small Ruminants, Swine, Poultry, and Camelids</td>
<td></td>
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<tr>
<td>Select one of the following:</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>ANSC 698</td>
<td>Cooperative for Real Education in Agricultural Management (CREAM)</td>
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<tr>
<td>ANSC 406</td>
<td>Careers in Animal Science and Integrated Agriculture Management Capstone</td>
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<tr>
<td>&amp; IAG 490</td>
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<td>Elective(s)</td>
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</table>

**Credits**

|          |                                               | 12-13   |

**Total Credits**

|          |                                               | 64-67   |

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