The Companion Animal and Equine Science concentration is designed for students intending to pursue a career in those industries generally not associated with traditional meat animal or dairy production. Students will take courses that prepare them for careers in specialized fields of animal care, animal health and animal well-being associated with zoos, kennels, research laboratories, and the racing industry.

**Degree Title:** Bachelor of Science in Animal Sciences  
**Minimum Hours Required for Graduation:** 126 hours

**General Education Requirements:**  
- **Composition I**  
- **Advanced Composition**  
- **Public Speaking**  
- **Cultural Studies (3 courses) — Western, Non-Western, and U.S. Minority**  
- **Foreign Language — 3 years in High School or 3rd level in College**  
- **Calculus I — MATH 220, 221, or 234**  
- **Statistics — STAT 100** (ask advisor for alternatives)  
- **Composition II**  
- **Humanities and the Arts — 2 courses**  
- **Natural Sciences and Technology — all listed below**  
  - CHEM 102 and 103  
  - CHEM 104 and 105  
  - MCB 100 and 101  
- **Social and Behavioral Sciences**  
  - Microeconomics — ACE 100 or ECON 102  
  - One other Social and Behavioral Sciences Course (cannot be an Economics course)  

**College and Animal Sciences Requirements:**  
- **ACES 101 or ACES 200—ACES Orientation**  
- **ANSC 100 – Intro to Animal Sciences**  
- **ANSC 101 – Contemporary Animal Issues**  
- **ANSC 103 – Working with Farm Animals**  
- **ANSC 221 – Cells, Metabolism and Genetics**  
- **ANSC 222 – Anatomy and Physiology**  
- **ANSC 250 and ANSC 307 or ANSC 206 and ANSC 306**  
- **ANSC 201**  
- **ANSC 204**  
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- **ANSC 211**  
- **ANSC 219**  
- **ANSC 301**  
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- **ANSC 360**  
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- **ANSC 424**  
- **ANSC 437**  
- **ANSC 470**  
- **ANSC 471**  
- **ANSC 251**  
- **ANSC 298** — Undergraduate Seminar  
- **ANSC 398** — Undergraduate Experiential Learning  
- **ANSC 498** — Integrating Animal Sciences  
- **ANSC 224 – Animal Reproduction & Growth**  
- **ANSC 298** — Undergraduate Seminar  
- **ANSC 398** — Undergraduate Experiential Learning  
- **ANSC 498** — Integrating Animal Sciences  
- **ANSC 425** — Animal Nutrition  
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- **ANSC 499** — Animal Nutrition  

*500-level courses are intended for James Scholars and graduate students. If you wish to take one of these courses, you should contact the instructor directly prior to enrolling.

**Electives:**
In addition to the requirements above, you will need to take a certain number of electives that will help you reach the 126 credit hours that are needed to graduate. Students may wish to pursue a minor or take courses in a subject they have a strong interest. A large majority of our students wish to enter Veterinary School after their bachelor's degree.

The following courses will be needed to enter Vet School here at the University of Illinois:

- **CHEM 232 & 233 — Organic Chemistry with Lab**  
- **MCB 450 — Biochemistry**  
- **PHYS 101 & 102 — Physics I and II**  
- **Biology with Lab — IB 150/151, MCB 150/151, or IB 104**

If you wish to pursue Veterinary School, it is important you research the requirements of the vet school(s) you wish to attend. The above list does not encompass the requirements at every school.
COMPANION ANIMAL & EQUINE SCIENCES CONCENTRATION REQUIREMENTS:

Choose 1 Combination:
ANSC 206 — Horse Management and ANSC 306 — Equine Science OR

Choose 2 Applied Science Courses:
- ANSC 201 — Principles of Dairy Production
- ANSC 204 — Intro Dairy Cattle Evaluation
- ANSC 205 — World Animal Resources
- ANSC 211 — Breeding Animal Evaluation
- ANSC 219 — Meat Technology
- ANSC 301 — Food Animal Prod., Mgmt. & Eval.
- ANSC 305 — Human Animal Interactions
- ANSC 309 — Meat Production and Marketing
- ANSC 310 — Meat Selection and Grading

Choose 2 Basic Science Courses:
- ANSC 251 — Epidemics and Infectious Diseases
- ANSC 350 — Cellular Metabolism in Animals
- ANSC 363 — Behavior of Domestic Animals
- ANSC 366 — Animal Behavior
- ANSC 406 — Zoo Animal Conservation Science
- ANSC 409 — Meat Science
- ANSC 420 — Ruminant Nutrition
- ANSC 421 — Vitamins and Minerals
- ANSC 422 — Companion Animal Nutrition
- ANSC 431 — Advanced Reproductive Biology

Course offerings vary from semester to semester. For current semester offerings, please visit courses.illinois.edu/
To learn about focus areas and recommended courses, please visit anscl.illinois.edu/undergrads/curriculum

*500-level courses are intended for James Scholars and graduate students. If you wish to take one of these courses, you should contact the instructor directly prior to enrolling.

Sample 8-Semester Plan:

<table>
<thead>
<tr>
<th>Freshman Fall Semester</th>
<th>Freshman Spring Semester</th>
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<tbody>
<tr>
<td>ACES 101</td>
<td>ANSC 101</td>
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<tr>
<td>ANSC 100</td>
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<tr>
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<td>MATH 234, 220, or 221</td>
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<th>Sophomore Fall Semester</th>
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<tr>
<td>ANSC 221</td>
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<td>ANSC 222*</td>
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<td>ANSC 103**</td>
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**Students pursuing admission to a Veterinary Medicine Program should consider using their elective credits hours to meet expected course work of that program. Course suggestions for the UIUC Veterinary School are on the front of this sheet. Note, some Colleges of Veterinary Medicine also require a second semester of organic chemistry.

***ANSC 498 should be taken during one semester in your senior year.