The Food Animal Production and Management concentration is designed for students intending to pursue a career in animal care and management or one of the associated food production industries. It emphasizes the scientific disciplines and the application of technology involved in animal production and animal products, as well as providing the opportunity to enhance a student’s practical knowledge through business courses.

**Degree Title:** Bachelor of Science in Animal Sciences

**Minimum Hours Required for Graduation:** 126 hours

### General Education Requirements:
[https://courses.illinois.edu/gened/DEFAULT/DEFAULT](https://courses.illinois.edu/gened/DEFAULT/DEFAULT)

- **Composition I**
- **Advanced Composition**
- **Public Speaking**
- **Cultural Studies — Western**
- **Cultural Studies — Non-Western/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)**
- **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 223 — Animal Nutrition**
- **ANSC 224 — Animal Reproduction & Growth**
- **ANSC 298 — Undergraduate Seminar**
- **ANSC 398 — Undergraduate Experiential Learning**
- **ANSC 498 — Integrating Animal Sciences**

### Food Animal Production and Management Concentration Requirements (Course Titles Located on Back)

Choose 4 Applied Science Courses:

- **ANSC 201**
- **ANSC 307**
- **ANSC 401**
- **ANSC 204**
- **ANSC 309**
- **ANSC 402**
- **ANSC 205**
- **ANSC 310**
- **ANSC 403**
- **ANSC 206**
- **ANSC 312**
- **ANSC 404**
- **ANSC 211**
- **ANSC 313**
- **ANSC 405**
- **ANSC 219**
- **ANSC 314**
- **ANSC 407**
- **ANSC 250**
- **ANSC 322**
- **ANSC 424**
- **ANSC 301**
- **ANSC 370**
- **ANSC 435**
- **ANSC 305**
- **ANSC 400**
- **ANSC 437**
- **ANSC 471**

Choose 2 Basic Science Courses:

- **ANSC 306**
- **ANSC 431**
- **ANSC 450**
- **ANSC 523**
- **ANSC 331**
- **ANSC 438**
- **ANSC 451**
- **ANSC 524**
- **ANSC 350**
- **ANSC 440**
- **ANSC 452**
- **ANSC 525**
- **ANSC 363**
- **ANSC 441**
- **ANSC 453**
- **ANSC 526**
- **ANSC 366**
- **ANSC 444**
- **ANSC 467**
- **ANSC 533**
- **ANSC 406**
- **ANSC 445**
- **ANSC 509**
- **ANSC 541**
- **ANSC 409**
- **ANSC 446**
- **ANSC 510**
- **ANSC 542**
- **ANSC 420**
- **ANSC 447**
- **ANSC 520**
- **ANSC 543**
- **ANSC 421**
- **ANSC 448**
- **ANSC 521**
- **ANSC 545**
- **ANSC 422**
- **ANSC 449**
- **ANSC 522**
- **ANSC 554**
- **ANSC 561**

*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 in this concentration may wish to pursue a minor in the following:

- Agricultural Safety and Health
- Food and Agribusiness Management
- Leadership Studies
- Business for Non-Business Majors

You can find more about the requirements of these minors at [http://catalog.illinois.edu/undergraduate/minors/](http://catalog.illinois.edu/undergraduate/minors/)
### Food Animal Production and Management Concentration Requirements

**Choose 4 Applied Science Courses:**

- ANSC 201 — Principles of Dairy Production
- ANSC 204 — Intro Dairy Cattle Evaluation
- ANSC 205 — World Animal Resources
- ANSC 206 — Horse Management
- ANSC 211 — Breeding Animal Evaluation
- ANSC 219 — Meat Technology
- ANSC 250 — Companion Animals in Society
- ANSC 301 — Food Animal Prod., Mgmt, & Eval
- ANSC 305 — Human Animal Interactions
- ANSC 307 — Companion Animal Management
- ANSC 309 — Meat Production and Marketing
- ANSC 310 — Meat Selection and Grading
- ANSC 312 — Advanced Livestock Evaluation
- ANSC 313 — Horse Appraisal
- ANSC 314 — Adv Dairy Cattle Evaluation
- ANSC 322 — Livestock Feeds and Feeding
- ANSC 370 — Companion Animal Policy
- ANSC 400 — Dairy Herd Management
- ANSC 401 — Beef Production
- ANSC 402 — Sheep Production
- ANSC 403 — Pork Production
- ANSC 404 — Poultry Science
- ANSC 405 — Advanced Dairy Management
- ANSC 407 — Animal Shelter Management
- ANSC 424 — Pet Food & Feed Manufacturing
- ANSC 435 — Milk Quality and Udder Health
- ANSC 437 — Adv Reproductive Management
- ANSC 471 — ANSC Leaders and Entrepreneurs

**Choose 2 Basic Science Courses:**

- ANSC 306 — Equine Science
- ANSC 331 — Biology of Reproduction
- 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 — Minerals and Vitamins
- ANSC 422 — Companion Animal Nutrition
- ANSC 431 — Advanced Reproductive Biology
- ANSC 438 — Lactation Biology
- ANSC 440 — Applied Statistical Methods
- ANSC 441 — Human Genetics
- ANSC 444 — Applied Animal Genetics
- ANSC 445 — Statistical Methods
- ANSC 446 — Population Genetics
- ANSC 447 — Advanced Genetics and Genomics
- ANSC 448 — Math Modeling in Life Sciences
- ANSC 449 — Biological Modeling
- ANSC 450 — Comparative Immunobiology
- ANSC 451 — Microbes and the Animal Industry
- ANSC 452 — Animal Growth and Development
- ANSC 453 — Stem Cell Biology
- ANSC 467 — Applied Animal Ecology
- ANSC 469 — Muscle Biology
- ANSC 470 — Science of Animal Well-Being
- ANSC 471 — Science of Animal Well-Being
- ANSC 509 — Muscle Biology
- ANSC 510 — Science of Animal Well-Being
- ANSC 520 — Protein and Energy Nutrition
- ANSC 521 — Regulation of Metabolism
- ANSC 522 — Advanced Ruminant Nutrition
- ANSC 523 — Techniques in Animal Nutrition
- ANSC 524 — Nonruminant Nutrition Concepts
- ANSC 525 — Topics in Nutrition Research
- ANSC 526 — Adv Companion Animal Nutrition
- ANSC 533 — Repro Physiology Lab Methods
- ANSC 541 — Regression Analysis
- ANSC 542 — Applied Bioinformatics
- ANSC 543 — Bioinformatics
- ANSC 545 — Statistical Genomics
- ANSC 554 — Immunobiological Methods
- ANSC 561 — Animal Stress Physiology

*Course offerings vary from semester to semester. For current semester offerings, please visit [https://courses.illinois.edu/](https://courses.illinois.edu/).

To learn about focus areas and recommended courses, please visit [http://ansc.illinois.edu/undergrads/curriculum](http://ansc.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

#### Freshman Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tr>
<td>ACES 101</td>
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<td>ANSC 100</td>
<td>4</td>
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<td>CMN 101/111 or RHET 105</td>
<td>3-4</td>
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<tr>
<td>CHEM 102 &amp; CHEM 103</td>
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<td><strong>TOTAL FOR SEMESTER</strong></td>
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#### Senior Fall Semester

<table>
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<tr>
<td>Major/Concentration required</td>
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<tr>
<td>Gen Eds or electives$^b$</td>
<td>9</td>
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<tr>
<td><strong>TOTAL FOR SEMESTER</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

$^b$Students may wish to use their free elective hours to pursue a minor that is related to their field. See examples on the front of this sheet.

$^c$ANSC 498 should be taken in spring of your junior year or fall of your senior year.

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Want to learn more about Animal Sciences? Visit [www.ansc.illinois.edu](http://www.ansc.illinois.edu)!