



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: courses.illinois.edu/gened/DEFAULT/DEFAULT

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)

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 2 Applied Science Courses:

ANSC 201 ANSC 305 ANSC 322 ANSC 405
ANSC 204 ANSC 306 ANSC 360 ANSC 407
ANSC 205 ANSC 307 ANSC 370 ANSC 424
ANSC 206 ANSC 309 ANSC 400 ANSC 435
ANSC 211 ANSC 310 ANSC 401 ANSC 437
ANSC 219 ANSC 312 ANSC 402 ANSC 470
ANSC 250 ANSC 313 ANSC 403 ANSC 471
ANSC 301 ANSC 314 ANSC 404

Choose 2 Basic Science Courses:

ANSC 251 ANSC 431 ANSC 450 ANSC 522
ANSC 350 ANSC 438 ANSC 451 ANSC 523
ANSC 363 ANSC 440 ANSC 452 ANSC 524
ANSC 366 ANSC 441 ANSC 454 ANSC 525
ANSC 406 ANSC 445 ANSC 460 ANSC 526
ANSC 409 ANSC 446 ANSC 509 ANSC 541
ANSC 420 ANSC 448 ANSC 520 ANSC 543
ANSC 422 ANSC 449 ANSC 521

*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 catalog.illinois.edu/undergraduate/minors/

FOOD ANIMAL PRODUCTION AND MANAGEMENT CONCENTRATION REQUIREMENTS:

Choose 4 Applied Science Courses:

| | | |
|---|--|---|
| ANSC 201 — Principles of Dairy Production | ANSC 306 — Equine Science | ANSC 370 — Companion Animal Policy |
| ANSC 204 — Intro Dairy Cattle Evaluation | ANSC 307 — Companion Animal Management | ANSC 400 — Dairy Herd Management |
| ANSC 205 — World Animal Resources | ANSC 309 — Meat Production and Marketing | ANSC 401 — Beef Production |
| ANSC 206 — Horse Management | ANSC 310 — Meat Selection and Grading | ANSC 402 — Sheep Production |
| ANSC 211 — Breeding Animal Evaluation | ANSC 312 — Advanced Livestock Evaluation | ANSC 403 — Pork Production |
| ANSC 219 — Meat Technology | ANSC 313 — Horse Appraisal | ANSC 404 — Poultry Science |
| ANSC 250 — Companion Animals in Society | ANSC 314 — Adv Dairy Cattle Evaluation | ANSC 407 — Animal Shelter Management |
| ANSC 301 — Food Animal Prod., Mgmt. & Eval. | ANSC 322 — Livestock Feeds and Feeding | ANSC 424 — Pet Food & Feed Manufacturing |
| ANSC 305 — Human Animal Interactions | ANSC 360----Technology & Management | ANSC 471 — ANSC Leaders and Entrepreneurs |

Choose 2 Basic Science Courses:

| | | |
|--|---|--|
| ANSC 251 — Epidemics and Infectious Diseases | ANSC 440 — Applied Statistical Methods I | ANSC 460--- The Secret Life of Animals :Tech |
| ANSC 350 — Cellular Metabolism in Animals | ANSC 441 — Human Genetics | ANSC 509 — Muscle Biology |
| ANSC 363 — Behavior of Domestic Animals | ANSC 445 — Statistical Methods | ANSC 520 — Protein and Energy Nutrition |
| ANSC 366 — Animal Behavior | ANSC 446 — Population Genetics | ANSC 521 — Regulation of Metabolism |
| ANSC 406 — Zoo Animal Conservation Science | ANSC 448 — Math Modeling in Life Sciences | ANSC 522 — Advanced Ruminant Nutrition |
| ANSC 409 — Meat Science | ANSC 449 — Biological Modeling | ANSC 523 — Techniques in Animal Nutrition |
| ANSC 420 — Ruminant Nutrition | ANSC 450 — Comparative Immunobiology | ANSC 524 — Nonruminant Nutrition Concepts |
| ANSC 422 — Companion Animal Nutrition | ANSC 451 — Microbes and the Animal Industry | ANSC 525 — Topics in Nutrition Research |
| ANSC 431 — Advanced Reproductive Biology | ANSC 452 — Animal Growth and Development | ANSC 526 — Adv. Companion Animal Nutrition |
| ANSC 438 — Lactation Biology | ANSC 454----Neuroimmunology | ANSC 541 — Regression Analysis |

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 ansc.illinois.edu/undergrads/curriculum

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Sample 8-Semester Plan:

Freshman Fall Semester

| | |
|---------------------------|--------------|
| ACES 101 | 2 |
| ANSC 100 | 4 |
| CMN 111/101 or RHET 105 | 3-4 |
| CHEM 102 & CHEM 103 | 4 |
| Gen Eds or elective** | 3 |
| TOTAL FOR SEMESTER | 16-17 |

Freshman Spring Semester

| | |
|---------------------------|--------------|
| ANSC 101 | 3 |
| CMN 101/112 or RHET 105 | 3-4 |
| CHEM 104 & CHEM 105 | 4 |
| MATH 234, 220, or 221 | 4-5 |
| Gen Eds or electives** | 3 |
| TOTAL FOR SEMESTER | 17-18 |

Sophomore Fall Semester

| | |
|---------------------------|-----------|
| ANSC 221 | 3 |
| ANSC 222* | 3 |
| ANSC 103** | 2 |
| Gen Eds or electives | 7 |
| TOTAL FOR SEMESTER | 15 |

Sophomore Spring Semester

| | |
|---------------------------|-----------|
| ANSC 223 | 3 |
| ANSC 224* | 4 |
| ANSC 298** | 1 |
| Gen Eds or electives | 7 |
| TOTAL FOR SEMESTER | 15 |

Junior Fall Semester

| | |
|------------------------------|-----------|
| Major/Concentration required | 3 |
| Gen Eds or electives** | 13 |
| TOTAL FOR SEMESTER | 16 |

Junior Spring Semester

| | |
|------------------------------|-----------|
| Major/Concentration required | 6 |
| Gen Eds or electives** | 9 |
| TOTAL FOR SEMESTER | 15 |

*ANSC 103 and ANSC 298 must be completed by the end of the Sophomore year. Each course may be taken in either the Fall or Spring semesters.

**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.

Senior Fall Semester

| | |
|------------------------------|-----------|
| ANSC 498*** | 2 |
| Gen Eds or electives** | 9 |
| Major/Concentration required | 6 |
| TOTAL FOR SEMESTER | 17 |

Senior Spring Semester

| | |
|------------------------------|-----------|
| ANSC 498*** | 2 |
| Major/Concentration required | 6 |
| Gen Eds or electives** | 9 |
| TOTAL FOR SEMESTER | 17 |

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