

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>

Composition I	Humanities and the Arts — 2 courses
Advanced Composition	Natural Sciences and Technology — all listed below
Public Speaking	CHEM 102 and 103
Cultural Studies (3 courses) — Western, Non-Western, and U.S. Minority	CHEM 104 and 105
Foreign Language — 3 years in High School or 3rd level in College	MCB 100 and 101
Calculus I — MATH 220, 221, or 234	Social and Behavioral Sciences
Statistics — STAT 100 (ask advisor for alternatives)	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 223 – Animal Nutrition
ANSC 100 – Intro to Animal Sciences	ANSC 224 – Animal Reproduction & Growth
ANSC 101 – Contemporary Animal Issues	ANSC 298 – Undergraduate Seminar
ANSC 103 – Working with Farm Animals	ANSC 398 – Undergraduate Experiential Learning
ANSC 221 – Cells, Metabolism and Genetics	ANSC 498 – Integrating Animal Sciences
ANSC 222 – Anatomy and Physiology	

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

## **Food Animal Production and Management Concentration Requirements**

### **Choose 4 Applied Science Courses:**

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

### **Choose 2 Basic Science Courses:**

ANSC 251 — Epidemics and Infectious Diseases	ANSC 441 — Human Genetics	ANSC 520 — Protein and Energy Nutrition
ANSC 306 — Equine Science	ANSC 444 — Applied Animal Genetics	ANSC 521 — Regulation of Metabolism
ANSC 331 — Biology of Reproduction	ANSC 445 — Statistical Methods	ANSC 522 — Advanced Ruminant Nutrition
ANSC 350 — Cellular Metabolism in Animals	ANSC 446 — Population Genetics	ANSC 523 — Techniques in Animal Nutrition
ANSC 363 — Behavior of Domestic Animals	ANSC 447 — Advanced Genetics and Genomics	ANSC 524 — Nonruminant Nutrition Concepts
ANSC 366 — Animal Behavior	ANSC 448 — Math Modeling in Life Sciences	ANSC 525 — Topics in Nutrition Research
ANSC 406 — Zoo Animal Conservation Science	ANSC 449 — Biological Modeling	ANSC 526 — Adv Companion Animal Nutrition
ANSC 409 — Meat Science	ANSC 450 — Comparative Immunobiology	ANSC 533 — Repro Physiology Lab Methods
ANSC 420 — Ruminant Nutrition	ANSC 451 — Microbes and the Animal Industry	ANSC 541 — Regression Analysis
ANSC 421 — Minerals and Vitamins	ANSC 452 — Animal Growth and Development	ANSC 542 — Applied Bioinformatics
ANSC 422 — Companion Animal Nutrition	ANSC 453 — Stem Cell Biology	ANSC 543 — Bioinformatics
ANSC 431 — Advanced Reproductive Biology	ANSC 467 — Applied Animal Ecology	ANSC 545 — Statistical Genomics
ANSC 438 — Lactation Biology	ANSC 509 — Muscle Biology	ANSC 554 — Immunobiological Methods
ANSC 440 — Applied Statistical Methods I	ANSC 510 — Science of Animal Well-Being	ANSC 561 — Animal Stress Physiology

\*Course offerings vary from semester to semester. For current semester offerings, please visit <https://courses.illinois.edu/>.

To learn about focus areas and recommended courses, please visit <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***

ACES 101	2
ANSC 100	4
CMN 101/111 or RHET 105	3-4
CHEM 102 & CHEM 103	4
Gen Eds or electives <sup>b</sup>	3
<b>TOTAL FOR SEMESTER</b>	<b>16-17</b>

#### ***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 <sup>b</sup>	3
<b>TOTAL FOR SEMESTER</b>	<b>17-18</b>

#### ***Sophomore Fall Semester***

ANSC 221	3
ANSC 222	3
ANSC 103 <sup>a</sup>	2
Gen Eds or electives <sup>b</sup>	7
<b>TOTAL FOR SEMESTER</b>	<b>15</b>

#### ***Sophomore Spring Semester***

ANSC 223	3
ANSC 224	4
ANSC 298 <sup>a</sup>	1
Gen Eds or electives <sup>b</sup>	7
<b>TOTAL FOR SEMESTER</b>	<b>15</b>

#### ***Junior Fall Semester***

Major/Concentration required	3
Gen Eds or electives <sup>b</sup>	13
<b>TOTAL FOR SEMESTER</b>	<b>16</b>

#### ***Junior Spring Semester***

Major/Concentration required	6
Gen Eds or electives <sup>b</sup>	9
<b>TOTAL FOR SEMESTER</b>	<b>15</b>

#### ***Senior Fall Semester***

ANSC 498 <sup>c</sup>	2
Major/Concentration required	6
Gen Eds or electives <sup>b</sup>	9
<b>TOTAL FOR SEMESTER</b>	<b>17</b>

#### ***Senior Spring Semester***

ANSC 498 <sup>c</sup>	2
Major/Concentration required	6
Gen Eds or electives <sup>b</sup>	9
<b>TOTAL FOR SEMESTER</b>	<b>17</b>

<sup>a</sup>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.

<sup>b</sup>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.

<sup>c</sup>ANSC 498 should be taken during one semester in your senior year.

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