The Science, Pre-Veterinary and Medical concentration is designed for students interested in graduate school or professional training after the undergraduate degree. It allows the student flexibility to choose courses that will satisfy most entrance requirements to post-graduate programs and emphasizes basic science courses. The concentration enables a student to complete all of the pre-veterinary science requirements while working toward their degree.

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

### General Education Requirements: [courses.illinois.edu/gened/DEFAULT/DEFAULT](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 201 ANSC 305 ANSC 322 ANSC 407**  
- **ANSC 204 ANSC 306 ANSC 370 ANSC 424**  
- **ANSC 205 ANSC 307 ANSC 400 ANSC 435**  
- **ANSC 206 ANSC 309 ANSC 401 ANSC 437**  
- **ANSC 211 ANSC 310 ANSC 402 ANSC 471**  
- **ANSC 219 ANSC 312 ANSC 403**  
- **ANSC 250 ANSC 313 ANSC 404**  
- **ANSC 301 ANSC 314 ANSC 405**  
- **ANSC 223 – Animal Nutrition**  
- **ANSC 224 – Animal Reproduction & Growth**  
- **ANSC 298 – Undergraduate Seminar**  
- **ANSC 398 – Undergraduate Experiential Learning**  
- **ANSC 498 – Integrating Animal Sciences**

### SCIENCE, PRE-VET AND MEDICAL CONCENTRATION REQUIREMENTS (COURSE TITLES LOCATED ON BACK):

- **Choose 2 Applied Science Courses:**
  - ANSC 201
  - ANSC 305
  - ANSC 322
  - ANSC 407
  - ANSC 204
  - ANSC 306
  - ANSC 370
  - ANSC 424
  - ANSC 205
  - ANSC 307
  - ANSC 400
  - ANSC 435
  - ANSC 206
  - ANSC 309
  - ANSC 401
  - ANSC 437
  - ANSC 211
  - ANSC 310
  - ANSC 402
  - ANSC 471
  - ANSC 219
  - ANSC 312
  - ANSC 403
  - ANSC 250
  - ANSC 313
  - ANSC 404
  - ANSC 301
  - ANSC 314
  - ANSC 405

- **Choose 2 Basic Science Courses:**
  - ANSC 251
  - ANSC 431
  - ANSC 450
  - ANSC 524
  - ANSC 350
  - ANSC 438
  - ANSC 451
  - ANSC 525
  - ANSC 363
  - ANSC 440
  - ANSC 452
  - ANSC 526
  - ANSC 366
  - ANSC 441
  - ANSC 509
  - ANSC 541
  - ANSC 406
  - ANSC 445
  - ANSC 520
  - ANSC 543
  - ANSC 409
  - ANSC 446
  - ANSC 521
  - ANSC 420
  - ANSC 448
  - ANSC 522
  - ANSC 422
  - ANSC 449
  - ANSC 523

*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.
SCIENCE, PRE-VET AND MEDICAL CONCENTRATION REQUIREMENTS:

Choose 2 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

Choose 4 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 422 — Companion Animal Nutrition
- ANSC 431 — Advanced Reproductive Biology
- ANSC 438 — Lactation 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 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 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 6
- 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

**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
- Gen Eds or electives** 9

**TOTAL FOR SEMESTER** 17

*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 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.