Animal Science: Pre-Veterinary

GENERAL EDUCATION REQUIREMENTS

CORE+ Courses - Student MUST complete the following courses with grade greater than or equal to C-, unless otherwise stated.

Completion of the CORE+ curriculum is a university-wide requirement that must be met in addition to major-specific courses and any additional degree requirements. It forms part of the general education component of your degree.

C – Critical Thinking Skills		
C1		3
C2 – *prerequisite needed is MATH 110***		3
C3		3
O – Oral & Written Communication		
O1		3
O2 – *prerequisites needed are ENGL 104 & ENGL 106***		3
O3		3
R – Relationships with the World		
R1		3
R2		3
R3		3
E - Engagement for Meaningful Lives and Productive Career		
E1		3
E2		3
E3		3
U - Oiler Six CORE+ Requirements		
U1		
U2		

U1 Outcome
Students will engage in reflective summative study in a capstone course, and/or engage in on- or off-campus experiential learning (undergraduate research, service learning, internships, study abroad), for three to six semester hours of coursework.

U2 Outcome
And, for no more than three semester hours, students will:
- perform or create original expressive work, OR
- articulate models promoting lifelong learning and wellbeing, OR
- complete an additional CORE Elective (e.g. E3)

***Placement into English, Math, and Chemistry course are determined by reported scores from standardized tests, UF placement tests, or prior credit (CCP/AP). Upon evaluation a prerequisite may be required.*

REQUIRED COURSES for most Veterinary Schools

Genetics & Lab	BIOL 310	4
Microbiology & Lab	BIOL 412	4
Precalculus** *or MATH 138 + 139*	MATH 140	4
Physics I & Lab	PHYS 250	4
Physics II & Lab	PHYS 251	4

HIGHLY RECOMMENDED for most Veterinary Schools

Immunology	BIOL 300	3
Cell Biology	BIOL 302	3

MAJOR REQUIREMENTS

Science and Math Courses - Student MUST complete the following courses with grade greater than or equal to C.

CHEMISTRY**		
General Chemistry I & Lab	CHEM 130	4
General Chemistry II & Lab	CHEM 131	4
Organic Chemistry I & Lab	CHEM 210	4
Organic Chemistry II & Lab	CHEM 211	4
Biochemistry	CHEM 400	4
BIOLOGY		
Introduction to Cell and Molecular Biology & Lab	BIOL 251	4
Biodiversity, Form, and Function & Lab	BIOL 252	4
Vertebrate Anatomy & Lab – Offered in Fall only	BIOL 330	4
Vertebrate Physiology & Lab – Offered in Spring only	BIOL 332	4
MATHEMATICS**		
MATH 123 – Statistics **OR** MATH 221 **OR** MATH 223		

MAJOR REQUIREMENTS

Animal Science - Student MUST complete the following courses with grade greater than or equal to C.

First Year Experience	ANSC 110	1
Introduction to Animal Science	ANSC 131	3
Principles of Food Animal Nutrition	ANSC 231	3
Physiology of Reproduction & Growth	ANSC 232	3
Animal Breeding & Genetics **OR** Genetics	ANSC 310 BIOL 310	3
Animal Science Junior Seminar	ANSC 399	1
Animal Science Senior Seminar	ANSC 499	1
Animal Science Elective Courses: see back of sheet for options.		15

Animal Medicine: must take 1 - Student MUST complete the following courses with grade greater than or equal to C.

Small Animal Medicine	ANSC 331	3
Food Animal Medicine	ANSC 332	3

Production and Management: must take 2 - Student MUST complete the following courses with grade greater than or equal to C.

Beef Production & Mgmt.	ANSC 351	2
Dairy Production & Mgmt.	ANSC 352	2
Sheep Production & Mgmt.	ANSC 353	2
Swine Production & Mgmt.	ANSC 354	2
Horse Production & Mgmt.	ANSC 355	2
Poultry Production & Mgmt.	ANSC 356	2

Veterinary school prerequisite requirements vary by institution and may change over time. The courses listed represent common requirements or recommendations but may not apply uniformly to all veterinary programs. **It is the student's responsibility** to carefully review the specific prerequisite requirements for each veterinary school to which they plan to apply and to confirm that all required coursework is completed prior to application. Always consult official program websites or admissions offices to ensure the most accurate and up-to-date information.

Comparing Veterinary School Prerequisites

- Students are encouraged to compare veterinary school prerequisite requirements using the **Association of American Veterinary Medical Colleges (AAVMC) – Veterinary Medical School Admission Requirements (VMCAS)**.
- This resource provides up-to-date prerequisite course information for U.S. and select international veterinary programs and allows students to review requirements by individual school.
- Access VMCAS here: **https://www.aavmc.org**

Animal Science Electives – 15 credits required.

Student MUST complete the following courses with grade greater than or equal to C.

___ ANSC 133 – Practical Animal Handling I: Equine (2hrs)
___ ANSC 134 – Practical Animal Handling II: Food Animals (2hrs)
___ ANSC 240 – Animal Products (3hrs)
___ ANSC 260 – Principles of Meat Science (3hrs)
___ ANSC 305 – Graduate/Professional School Seminar (1hr)
___ ANSC 310 – Principles of Animal Breeding and Genetics (3hrs) *
___ ANSC 315 – Farm Business Management (3hrs)
___ ANSC 320 – Meat Animal Evaluation (3hrs)
___ ANSC 330 – Forage & Crop Production (3hrs)
___ ANSC 331 – Small Animal Medicine (3hrs) *
___ ANSC 332 – Food Animal Medicine (3hrs) *
___ ANSC 340 – Livestock & Agricultural Product Merchandising (3hrs)

___ ANSC 351 – Beef Production & Mgmt. (2hrs) *
___ ANSC 352 – Dairy Production & Mgmt. (2hrs) *
___ ANSC 353 – Sheep Production & Mgmt. (2hrs) *
___ ANSC 354 – Swine Production & Mgmt. (2hrs) *
___ ANSC 355 – Horse Production & Mgmt. (2hrs) *
___ ANSC 356 – Poultry Production & Mgmt. (2hrs) *

___ ANSC 360 – Principles of Food Safety (3hrs)
___ ANSC 402 – Advanced Animal Reproduction (3hrs)
___ ANSC 404 – Advanced Animal Nutrition (3hrs)
___ ANSC 412 – Advanced Food Animal Reproduction Techniques (2hrs)
___ ANSC 435 – Introduction to Animal Ultrasound (2hrs)
___ ANSC 460 – Meat Products & Processing (3hrs)

**Courses required for the emphasis will not double count as electives. Once emphasis requirements are fulfilled, additional courses in that category may count as electives.*

Production Lab Electives

___ ANSC 351L – Beef Production & Management/Lab (1hr)
___ ANSC 352L – Dairy Production & Management/Lab (1hr)
___ ANSC 353L – Sheep Production & Management/Lab (1hr)
___ ANSC 354L – Swine Production & Management/Lab (1hr)
___ ANSC 355L – Horse Production & Management/Lab (1hr)
___ ANSC 365L - Poultry Production & Management/Lab. (1hr)

Cross-Listed Electives

___ EQST 301 – Equine Preventative Medicine (3hrs)
___ EQST 302 – Farm & Stable Management (3hrs)
___ EQST 332 – Equine Exercise Physiology (3hrs)
___ EQST 337 – Equine Marketing (3hrs)
___ EQST 402 – Advanced Equine Reproduction (3hrs)
___ EQST 404 – Advanced Equine Nutrition (3hrs)
___ EQST 405 – Advanced Reproduction Techniques (2hrs)
___ EQST 435 – Equine Law (3hrs)
___ EQST 480 – Internship (max 6hrs)
___ EQST 490 – Advanced Topics in Equine Science (max 6hrs)

Each may be used up to a maximum of 6 credit hours

___ ANSC 470 – Research in Animal Science
___ ANSC 480 – Internship
___ ANSC 485 – International Animal Science Experience
___ ANSC 490 – Advanced Topics in Animal Science
___ Any ASLA (Loop Abroad) course

Requirements for Graduation

____ Student must complete **120 Semester Hours**

____ Student has completed 104 Semester Hours with grade greater than or equal to C-.

____ Student has cumulative **GPA greater than or equal to 2.00.**

____ Student has completed all **CORE+** course requirements: C1 C2 C3 | O1 O2 O3 | R1 R2 R3 | E1 E2 E3

____ Student has completed the **Oiler Six CORE+** Requirements:

- Student has completed 3 Semester Hours from All CORE courses with course tags of U1 with grade greater than or equal to C-
- And Student has satisfied all the following: Student has completed 6 Semester Hours from All U1/U2 courses with grade greater than or equal to C.

____ Student has completed the following courses with grade greater than or equal to C: ANSC 131, ANSC 231, ANSC 232, ANSC 310.

____ Student has completed the BS Animal Science Pre-Vet **Core Lower-Level courses** with grade greater than or equal to a C.

____ Student has completed the BS Animal Science Pre-Vet **Core Upper-Level courses** with grade greater than or equal to a C.

____ Student has completed the BS Animal Science Pre-Vet **Production and Management courses** with grade greater than or equal to a C.

____ Student has completed the BS Animal Science Pre-Vet **Animal Medicine course** with grade greater than or equal to a C.

____ Student has completed the BS Animal Science Pre-Vet **Junior and Senior Seminar courses** with grade greater than or equal to a C.

____ Student has completed the BS Animal Science Pre-Vet **ANSC Elective courses** with grade greater than or equal to a C.