

**PRE-VETERINARY CURRICULUM WORKSHEET**

**SGR (BOR) REQUIREMENTS \***

**SGR Goal 1 (Written Communications) - 6 credits**

ENGL 101	Composition I (3)	_____
ENGL 201	Composition II (3)	_____

**SGR Goal 2 (Oral Communications) - 3 credits**

SPCM 101	Fundamentals of Speech (3)	_____
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**SGR Goal 3 (Social Sciences) - 6 credits**

ABS 203	Global Food Systems (3) <sup>1</sup>	_____
ECON 201	Microeconomics (3) <sup>1</sup>	_____

**SGR Goal 4 (Arts & Humanities) - 6 credits<sup>3</sup>**

_____	_____	_____
_____	_____	_____

**SGR Goal 5 (Mathematics) - 3 credits**

MATH 102	College Algebra (3) <sup>4,8</sup>	_____
MATH 121/L	Survey of Calculus (5) <sup>1,2</sup>	_____

**SGR Goal 6 (Natural Sciences) - 6 credits<sup>5</sup>**

See "Science Prerequisites" list below

**SGR Goal 7 (Information Literacy)**

Fulfilled by courses for SGR Goals 1 and 2; see catalog for details

**PRE-VETERINARY SCIENCE PREREQUISITES<sup>5,7</sup>**

*All Majors:*

BIOL 151/L	General Biology I with lab (4)	_____
BIOL 153/L	General Biology II with lab (4)	_____
VET 223/L	Anat & Physiol of Domest Animals (4) <sup>9</sup>	_____
MICR 233/L	Introductory Microbiology with lab (4) <sup>8</sup>	_____
CHEM 112/L	General Chemistry I with lab (4) <sup>2</sup>	_____
CHEM 114/L	General Chemistry II with lab (4)	_____
CHEM 326/L	Organic Chemistry I with lab (4)	_____
CHEM 328/L	Organic Chemistry II with lab (4) <sup>9</sup>	_____
CHEM 464	Biochemistry I (3)	_____
STAT 281	Intro to Statistics (3) <sup>2,8</sup>	_____
PHYS 111/L	Intro to Physics I with lab (4)	_____
PHYS 113/L	Intro to Physics II with lab (4) <sup>8</sup>	_____

*Animal Science Majors:*

AS 332	Livestock Breeding & Genetics (4)	_____
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*Biology, Microbiology, or Other Majors (PICK ONE):*

BIOL 202/L	Genetics & Organismal Biology (4)	_____
BIOL 371	Genetics (3)	_____

- Prerequisite coursework, and calculation of application GPA, varies among veterinary colleges; consult with your pre-veterinary advisor.
- Honors/majors chemistry (CHEM 115, CHEM 127, CHEM 229, and CHEM 236/237) is **NOT** recommended for pre-veterinary students.

**Other Animal Science Coursework<sup>1</sup>**

AS 119	Opportunities in Animal & Vet Sciences (1)	_____
VET 120	Intro to Veterinary Medicine (1) <sup>10</sup>	_____
AS 101/L	Intro to Animal Science with lab (4)	_____
ACCT 210	Principles of Accounting I (3)	_____
AS 219	Principles of Animal Nutrition (3)	_____
AS 241/L	Intro to Meat Science with lab (3)	_____
AS 319/L	Livestock Feeds & Feeding with lab (3)	_____
AS 333/L	Livestock Reproduction with lab (3)	_____
AS 389	Current Issues in Animal Science (2)	_____

**ACADEMIC MINOR - ANIMAL HEALTH**

**18 CREDITS**

**Core Coursework (must take 9 credits)**

VET 120	Intro to Veterinary Medicine (1) <sup>10</sup>	_____
VET 183	Veterinary Medical Terminology (1) <sup>10</sup>	_____
VET 223	Anat & Physiol of Domest Animals (4) <sup>9</sup>	_____
VET 403	Animal Diseases and their Control (3)	_____

9 credits

**Elective Coursework (must take 9 credits)**

VET 424	Med & Vet Virology (3)	_____
WL 425/L	Wildlife Nutrition & Disease (3)	_____
MICR 433	Medical Microbiology (3)	_____
MICR 439	Med & Vet Immunology (3)	_____
MICR 440L	Infectious Disease Laboratory (3)	_____
HSC 445	Epidemiology (3)	_____
BIOL 467/L	Parasitology (3)	_____
VET 476	Advanced Mammalian Physiology (4)	_____

9 credits

**Pre-Veterinary Related Courses (Electives)**

DS 130/L	Intro to Dairy Science (3)	_____
ABS 205	Biotech in Agriculture & Medicine (2)	_____
RANG 205/L	Intro to Range Management (3)	_____
WL 220	Intro to Wildlife & Fish Mgmt (3)	_____
RANG 215	Intro to Integrated Ranch Mgmt (3)	_____
FS 251	Food Safety and Quality Mgmt (3)	_____
DS 312/L	Dairy Cattle Breeding & Evaluation(4)	_____
PHIL 320	Professional Ethics (3)	_____
BADM 334	Small Business Management (3)	_____
PHYS 337	Foundations of Health Physics (3)	_____
PHIL 383	Bioethics (4)	_____
DS 413	Physiology of Lactation (3)	_____
STAT 435	Applied Bioinformatics (3)	_____
MICR 448	Molecular & Microbial Genetics (4)	_____
BIOL 483	Developmental Biology with lab (4)	_____
VET 491	Independent Study (1-3)	_____
VET 492	Topics in Vet Science (1-3)	_____
VET 496	Field Experience (1-4)	_____
VET 498	Undergraduate Research (1-4)	_____

**Footnotes**

- \* Required for SDSU general education requirements, but not necessarily CVM admission; please see page 4 for more information.
- 1 Required for Animal Science majors (not necessary during 1<sup>st</sup> term), but **not** for admission to most veterinary schools.
- 2 MATH 102 or higher placement is a required co-requisite/prerequisite.
- 3 Music performance or foreign language coursework are **not** accepted for CVM admission; music history, music theory, or foreign literature courses are acceptable.
- 4 Or higher course number, based on math placement testing.
- 5 Any two 100 level "Science Prerequisites" can fulfill SGR goal 6.
- 6 Definitive information regarding academic majors should be provided by the student's academic advisor and their department.
- 7 These prerequisite guidelines are based on the student applying to veterinary college at both Iowa State and Minnesota. For prerequisite coursework at other veterinary colleges, please see online materials provided by the college, or consult with your advisor.
- 8 Required for University of Minnesota CVM admission (but not ISU).
- 9 Required for Iowa State University CVM admission (but not UM).
- 10 Suggested for all Pre-Veterinary students