



Advising Worksheet for Animal Science

Core Requirements



Effective 2024-2025 Bulletin - 120 hrs

<u>College Integrative Course</u>	MET	HR	ACE
SCIL 101 Science and Decision-Making for a Complex World (B)		3	8
<u>Professional Development Requirements</u>	MET	HR	ACE
AGRI 042 CASNR Start Smart		0	
ASCI 101 Animal Science Orientation Seminar or PVET 101 Success in Vet Science (F)		1	
ASCI 201 Professional Development for Careers in Animal Science (S)		1	
ASCI 391 Networking w/Industry Professionals (B)		1	
Capstone Course/ACE 10: Select From: ASCI 450 Horse Mgmt (S), ASCI 455 Beef Cow/Calf Mgmt (S), ASCI 457 Beef Feedlot Mgmt (F), ASCI 458 Adv Companion Animal Mgmt (S)		3	10
<u>Core Disciplinary Requirements</u>	MET	HR	ACE
ASCI 100 Fund of Animal Biology w/lab (B)		4	
ASCI 210 Principles of Animal Products for Today's Society (OL/F and F2F/S)		2	
ASCI 220 Feeds and Feeding (F)		2	
ASCI 243 Animal Anatomy Lab (B)		1	
ASCI 270 Fundamentals of Animal Behavior and Welfare (S)		2	
PLAS 215 Genetics or BIOS 206 General Genetics (B)		4	4
ASCI 330 Animal Breeding (F)		4	
ASCI 341 Physiology and Mngt of Reproduction (F)		4	
<u>Natural Sciences</u>		4	
ASCI 120 Animal Biology (F), BIOS 101/101L General Biology (B), or LIFE 120/120L Fund of Biology I (B)		4	

<u>Mathematics and Statistics</u>	MET	HR	ACE	
MATH 102 Trigonometry (3 cr) or MATH 104 or MATH 106 & STAT 218 Introduction to Statistics (3 cr)		6	3	
<u>Communications</u>	MET	HR	ACE	
Select any CASNR approved ACE 1 course		3	1	
Select any CASNR approved ACE 2 course		3	2	
<u>Economics, Humanities & Social Sciences</u>	MET	HR	ACE	
Select 1 course form ACE 5 outcome (Humanities)		3	5	
Select 1 course from AECN 141, ECON 200, ECON 211 or ECON 212		3	6	
Select 1 course from ACE 7 outcome (Arts)		3	7	
Select 1 course from ACE 9 outcome (Global/Diversity)		3	9	
<u>Basic Animal Mgmt Requirements (Select 4 credits from 2 of 4 sepcies categories)</u>	MET	HR	ACE	
Livestock Species Mgmt (Beef & Dairy Cattle), 1 credit each - Spring only for all - 1x/wk for 5 weeks		4		
ASCI 250A Beef Cow/ Calf Mgmt, ASCI 250B Basic Beef Feedlot Mgmt, ASCI 250M Basic Dairy Mgmt				
Livestock Species Mgmt (Non-bovine), 1 credit each - Spring only for all - 1x/wk for 5 weeks				
ASCI 250K Basic Swine Mgmt, ASCI 250P Basic Poultry Mgmt, ASCI 250R Basic Small Rum. Mgmt				
Companion Animals, 1 credit each - Fall only for all - 3x/wk for 5 weeks				
ASCI 251A Basic CA Mgmt - Dogs, ASCI 251B Basic CA Mgmt - Cats, ASCI 251E Basic CA Mgmt - Small Mammals, ASCI 251J CA Mgmt - Non Domesticated				
Equine - Fall only for both				
ASCI 252A Intro to the Horse Industry (3 cr - full semester) or ASCI 252B (1 cr - 5 wks)				
Total ASCI Core Requirements			64-66	
Fulfill requirements for 1 of 4 options (back side)			54-56	
Total Credit Hours		120		

F=Fall Only F2F = in person
 S=Spring Only OL = online
 B=Both Fall & Spring

Biology, Biotechnology and Veterinary Science Option

<u>Departmental Requirements</u>	MET	HR
Written Communication - A 2nd written communication course required for vet school		3
ASCI 320 Animal Nutrition (S), ASCI 321 Companion Animal Nutrition (S), or ASCI 322 Equine Nutrition (S) - Select 1		3
ASCI 340 Animal Physiological Systems (F)		3
Advanced Animal Disciplinary Courses (select 6 hours from the following):		
Behavior: ASCI 271 Companion Animal & Equine Behavior (S), ASCI 370 Animal Welfare (S), ASCI 445 Equine & Canine Exercise Science (F)		6
Nutrition: ASCI 421 Adv. Animal Nutrition (F), ASCI 422 Adv. Feeding & Feed Formulation (F)		
Breeding/Genetics: ASCI 431 Adv. Animal Breeding (S) or ASCI 432 Genome Analysis (S)		
Reproduction: ASCI 342 Equine Reproduction (S), ASCI 441 New Techniques in Reproductive Bio (S), ASCI 442 Endocrinology		
Phys/Health: ASCI 443 (S), ASCI 444 (F), BIOS 312/314 (B) , VBMS 403, VBMS 406 (S), VBMS 407 (S), VBMS 408, VBMS 410 (F), VBMS 425 (S)		
Adv. Mgmt: ASCI 450, ASCI 451, ASCI 452, ASCI 453, ASCI 454, ASCI 455, ASCI 457, ASCI 458, ASCI 486		
Natural Sciences		
LIFE 121/121L Fundamentals of Biology II and lab (B)		4
CHEM 109A/109L General Chemistry I and lab (B)		4
CHEM 110A/110L General Chemistry II and lab (B)		4
CHEM 251/ 253 Organic Chemistry I and lab (B)		4
BIOC 401 Elements of Biochemistry (B)		3
PHYS 141 Elementary General Physics I (B)		5
Business Course		
Select 1 course from the listing of business courses		3
Experiential Learning (4 cr)		
Hands-on Skills Courses: ASCI 150 or any ASCI 197 course		1-2
Off-Campus Industry Exposure: Study abroad or Study tour, competitive teams or Internship, Extension, Research or Teaching		2-3
Core Requirements (front side)		
		64-66
Option Requirements (back side)		
		45-46
Free Electives		
		8-11
Total Credit Hours Required to Graduate		
		120
NOTE: Although PHYS 142 is not required for admission to the ISU CVM, it is required by other colleges of veterinary medicine including K-State. Be sure to visit with your advisor about requirements specific to ALL of the vet schools you are applying to.		