

# Animal Science Check Sheet FALL 2017



Name: \_\_\_\_\_

Student ID: \_\_\_\_\_

<u>University Core</u>		<u>Animal Science</u>		<u>Science Elective (2 courses required)</u>	<u>CRS</u>
<b>1A Written Communication</b>	<b>CRS</b>	<b>Base Courses - Required</b>	<b>CRS</b>	_____ ANEQ460 Meat Safety (F)	2
_____ CO 150 College Comp	3	_____ ANEQ101 Food Anml Sci	4	_____ ANEQ522 Metabolism (F)	3
<b>1B Mathematics</b>	3	_____ ANEQ105 Intro Large Anml Anat	1	_____ BC351 Principles of Biochemistry	4
_____ Math 117, 118 & 124		_____ ANEQ250 Live Anml/Carc Eval	3	_____ BC401 Comprehensive Biochem I	3
<b>OR</b> one of the following:		_____ ANEQ293 Career Exploration Sem	1	_____ BC403 Comprehensive Biochem II	3
_____ Math 141, 155 or 160		_____ ANEQ305 A&P or BMS300	3/4	_____ CHEM245 Fund of Organic Chemistry	4
<b>2 Advanced Writing</b>		_____ ANEQ/VS313 (F), ANEQ346, MIP315	3	_____ CHEM341 Modern Organic CHEM I	3
_____ CO 300, 301, 302, or JTC300	3	_____ ANEQ328(S), SOCR330, BZ350, MIP450	3	_____ CHEM343 Modern Organic CHEM II	3
<b>3A Biological/Physical Science</b>	7	_____ SOCR320 (S) or RS300 (F)	3	_____ CHEM345 Organic Chemistry I	4
_____ CHEM 107/108 Fund Chem	5	_____ SPCM200	3	_____ CHEM346 Organic Chemistry II	4
<b>OR</b>		_____ STAT201 or 301 or 307	3	_____ LIFE205 Microbial Biology	3
_____ CHEM 111/112 Gen Chem I	5	<b>3C AREC202 or ECON202</b>		_____ MIP300 General Microbiology	3
<b>Required</b>		<b>4B Foundation - Required</b>		<b>Specialization Electives (12 credits required)</b>	
_____ LIFE 102 Attrib of Living Sys	4	_____ ANEQ310 Animal Repro (OF,S)	3	Select a total of 12 credits from the	
<b>3B Arts/Humanities</b>	6	_____ ANEQ320 Animal Nutrition	4	list on the reverse side	
_____		_____ ANEQ330 Animal Breeding (OF,S)	3	_____	
_____		_____ ANEQ360 Animal Meat Science (F)	3	_____	
<b>3C Social/Behavioral Sciences</b>		<b>4A, C Capstone - 2 courses required</b>		_____	
_____ AREC 202 or ECON 202	3	_____ ANEQ470 Meat Process Systems (S)	4	_____	
<b>3D Historical Perspectives</b>	3	_____ ANEQ472 Sheep Systems (S)	3	_____	
_____		_____ ANEQ473 Dairy Systems (F)	3	<b>Business - (9 credits required)</b>	
<b>3E Global &amp; Cultural Awareness</b>	3	_____ ANEQ474 Swine Systems (F,S)	3	Select a total of 9 credits from any AREC or	
_____		_____ ANEQ476 Feedlot Systems (S)	3	ECON course (except AREC202/ECON202) or	
<b>Minimum Graduation Requirements</b>		_____ ANEQ478 Beef Systems (F)	3	any of the following: ACT205, BUS205,	
120 credits, 42 upper division credits		<b>Applied - 4 credits from 2 courses</b>		FIN305, MGT305, MKT305	
2.0 Core GPA, 2.0 Overall GPA		_____ ANEQ286 Livestock Practicum	2	_____	
<b>Credit Limit for Graduation</b>		_____ ANEQ300 Courses	var	_____	
ANEQ 352-357 & 361-364 Judging	5	_____ ANEQ312 Animal Ultrasound (F)	2	_____	
ANEQ384 Supv'd College Teach	6	_____ ANEQ322 (F) or ANEQ323 (S) - Online	2	<b>FAVCIP Requirements</b>	
ANEQ487A Internship	6	_____ ANEQ352 Intro to Horse Eval (S)	2	Must apply for FAVCIP status. For Vet School	
ANEQ495 or ANEQ496 Ind/Grp Stdy	6	_____ ANEQ354 Intro to Livestock Eval (F)	3	requirements see website: <a href="http://www.cvmbs.colostate.edu/cvmbs/pvmprom.htm">http://www.cvmbs.colostate.edu/cvmbs/pvmprom.htm</a>	
<b>Maximum combination: 12 credits</b>		_____ ANEQ356 Intro to Dairy Eval (S)	3		
		_____ ANEQ361 Intro to Meat Prod Eval (F)	3		
		_____ ANEQ363 Intro Wool & Fiber Eval (F)	1		
		_____ ANEQ384 Supv'd College Teaching	var		
		_____ One Equine Applied Course	var		
		_____ ANEQ340 Spanish Anml Hlth/Care	3		
		<b>A minimum grade of C (2.0) is required for</b>			
		<b>all ANEQ courses and for BMS300,</b>			
		<b>VS313, and MIP315 which are required for</b>			
		<b>graduation.</b>			
				Student Signature _____	Date _____
				Advisor Signature _____	Date _____
					5/2017

<b>Specialization Electives</b>	<b>CRS</b>	<b>Certificate in Animal Nutrition</b>	<b>CRS</b>
ANEQ334 Equine Genetics	3	ANEQ345 Princ. Nutr: Equine (S,SS)	3
ANEQ345 Principles of Nutrition: Equine (S, SS)	3	ANEQ420 Comp Diet Formulation (F)	3
ANEQ355, 357 (F), 362 or 364 (S) Advanced Judging	1/2	ANEQ476 Feedlot Systems (S)	3
ANEQ420 Computer Diet Formulation (F)	3	BC351 Principles of Biochemistry	4
ANEQ450 Processed Meats (F)	3	ANEQ487A Internship <sup>1</sup>	1
ANEQ460 Meat Safety (S)	2	<b>OR</b> ANEQ495 Independent Study <sup>1</sup>	1
ANEQ470 Meat Processing Systems (F)	4		<b>14 crs</b>
ANEQ487A Internship	var		
ANEQ495 Independent Study	var	<b>Certificate in Beef Feedlot Mgmt</b>	<b>CRS</b>
ANEQ496 Group Study	var	ANEQ420 Comp Diet Formulation (F)	3
ANEQ510 Bovine Reproductive Management (F)	4	ANEQ476 Feedlot Systems (S)	3
ANEQ522 Animal Metabolism (F)	3	ANEQ487A Internship <sup>1</sup>	1
ANEQ531 Applied Bovine Respiratory Disease Mgmt	1	AREC310 Agricultural Markeing	3
ANEQ532 Genetics of Bovine Respiratory Disease	1	AREC412 Ag Commodoties Marketing	3
ANEQ534 Markers to Gene Function-Functl Change	1		<b>13 crs</b>
ANEQ551 Field Necropsy	2		
ANEQ565 Interpreting Animal Science Research (S)	3	<b>Certificate in Beef Production Systems</b>	<b>CRS</b>
ANEQ567 HACCP Meat Safety (S)	2	ANEQ300N Topics: Seedstock Merch	2
ANEQ575 Computational Biology in Animal Breeding	3	ANEQ470 Meat Processing Systems (F)	4
ANEQ 3rd Capstone	3/4	ANEQ476 Feedlot Systems (S)	3
BC 463 Molecular Genetics	3	ANEQ478 Beef Systems (F)	3
BC 465 Molecular Regulation of Cell Function	3	ANEQ487A Internship <sup>1</sup>	1
BMS305 Domestic Animal Gross Anatomy	4		<b>13 crs</b>
BMS330 Microscopic Anatomy	4		
BMS409 Human & Animal Reproduction Biology	3	<b>Certificate in Meat Science</b>	<b>CRS</b>
BMS430 Endocrinology	3	ANEQ362 Advanced Meat Prod Eval	1
BMS450 Pharmacology	3	ANEQ450 Processed Meats (F)	3
BZ/MIP462 Parasitology and Vector Biology	5	ANEQ460 Meat Safety (S)	2
MIP334 Food Microbiology	3	ANEQ470 Meat Processing Systems (F)	4
MIP335 Food Microbiology Lab	2	ANEQ487A Internship <sup>1</sup>	1
MIP342 Immunology	4	<b>OR</b> ANEQ495 Independent Study <sup>1</sup>	1
MIP343 Immunology Lab	2	ANEQ496 Group Study <sup>1</sup>	1
MIP432 Microbial Ecology	3		<b>12 crs</b>
MIP433 Microbial Ecology Lab	1	<sup>1</sup> Must be related to meat evaluation,	
MIP436 Industrial Microbiology	4	meat processing technology,	
MIP443 Microbial Physiology	4	product quality, microbiology,	
MIP450 Microbial Genetics	3	and/or food safety.	
RS400 Rangeland Improvements	2		
RS471 Rangeland Planning & Grazing Management	2		
RS472 Rangeland Ecosystem Planning	4		
VS331 Histology	4		

Select a total of 12 credits from the Specialization Animal Science List or students may satisfy the specialization requirement by completing a 2nd major (Equine Sciences, Ag Business, Ag Education, or Journalism) or a minor (Food Science & Safety, Ag Business, or Business Administration).

<sup>1</sup> **Certificate Internships/Independent Studies must be in specialization area.**