Master of Animal Science --- Distance Education Course Matrix

Department of Animal Science --- NC State University

	Course		Cr.	2017			2018			2019		
	Number	Title		Spring	Summer	Fall	Spring	Summer	Fall	Spring	Summer	Fall
Required:												
	ANS 601	Animal Science Seminar	1	X		X	X		X	X		X
	ST 511	Experimental Statistics for Biological Sciences I	3		X	X		X	X		X	X
One Biochemistry, Education, Economics or Business Core Course:												
	AEE 521	Program Planning in Agricultural Extension Education	3			X			X			X
	AEE 523	Adult Education in Agriculture	3			X			X			X
	AEE 526	Information Technologies in Agricultural Extension Education	3	X			X			X		
	ANS/BCH 571	Nutritional Biochemistry (Regulation of Metabolism)	3			X						X
One Genetics:												
	ANS 540	Selection of Domestic Animals	3		X			X			X	
	ANS 575	Current Topics in Genomics and Proteomics	3		X			X			X	
One Nutrition:												
	ANS 550	Applied Ruminant Nutrition	3			X			X			X
	ANS 590	Applied Non-Ruminant Nutrition	3			X			X			X
	ANS/BCH 571	Nutritional Biochemistry (Regulation of Metabolism)	3			X						X
	NTR 500	Principles of Human Nutrition	3		X	X		X	X		X	X
One Physiology:												
	ANS 530	Advanced Applied Reproductive Physiology	3	X			X			X		
	ANS 552	Advanced Reproductive Physiology & Biotechnology	3	X		X	X		X	X		X
At least one other ANS (Departmental) Elective:												
	ANS 530	Advanced Applied Reproductive Physiology	3	X			X			X		
	ANS 540	Selection of Domestic Animals	3		X			X			X	
	ANS 550	Applied Ruminant Nutrition	3			X			X			X
	ANS 552	Advanced Reproductive Physiology & Biotechnology	3			X			X			X
	ANS 561	Equine Nutrition	3	X								
	ANS/BCH 571	Nutritional Biochemistry (Regulation of Metabolism)	3			X						
	ANS 575	Current Topics in Genomics and Proteomics	3		X			X			X	
	ANS 590	Avanced Meat Science	3	X			X			X		
	ANS 590	Applied Non-Ruminant Nutrition	3			X			X			X
	ANS 590	Animal Growth and Development	3	X			X			X		
	ANS 590	Advanced Beef Production	3		X			X			X	
	ANS 590	Evaluation and Use of Breeds of Livestock	3			X			X			X

Offered by institutions participating in AG*IDEA - Common tuition may apply

Area of Emphasis: Animal Nutrition		Area of Emphasis: Animal Breeding and Genetics	
ANS 550 - Applied Ruminant Nutrition	Fall Semester Course	ANS 540 - Selection of Domestic Animals	
ANS 590 - Applied Non-Ruminant Nutrition	Fall Semester Course	ANS 575 - Current Topics in Genomics and Proteomics	
ANS 561 - Equine Nutrition	Spring Semester Course	ANS 590 - Evaluation and Use of Breeds of Livestock	
ANS 590 - Animal Growth and Development	Spring Semester Course	Courses in the Ag*IDEA Quantitative Genetics and Genomics program	
FM 525 - Advanced Feed Science and Technology	Fall Semester Course		
ANS 571 - Nutritional Biochemistry (Regulation of Metabolism)	Fall Semester Course (alt yrs)		
NTR 515 - Advanced Comparative Nutrition	Fall & Spring Semester Course		
FM 580 - Feed and Ingredient Quality Assurance	Fall Semester Course		

Area of Emphasis: Animal Physiology		Graduate Certificate in Feed Science	
ANS 530 - Advanced Applied Reproductive Physiology	Spring Course	ANS/NTR/PO 515 - Advanced Comparative Nutrition	
ANS 552 - Advanced Reproductive Physiology & Biotechnology	Fall Course	FM 525 - Advanced Feed Science and Technology	
ANS 575 - Current Topics in Genomics and Proteomics	Summer Course	FM 580 - Feed and Ingradient Quality Assurance	
ANS 590 - Animal Growth and Development	Spring Course	FM 790 - Advanced Feed Formulation	
BIO 424 - Endocrinology	Spring Course		
FS 553 - Lactation, Milk and Nutrition	Fall & Spring Course		