

**MAS Core Course List – 19 credits required:**

<b>Credits</b>	<b>Course Number</b>	<b>Course Title</b>
1	ANS 601 <sup>1</sup>	Animal Science Seminar
3	ST 511	Experimental Statistics for Biological Sciences I
<i>Choose one Biochemistry, or one Ag Education Course:</i>		
3	AEE 521	Program Planning in Agric Extension Education
3	AEE 523	Adult Education in Agriculture
3	AEE 526	Information Technologies in Ag Extension Education
3	BCH 553	Biochemistry of Gene Expression
3	ANS (BCH) 571	Nutritional Biochemistry
3	BUS 590	Topics in Business Management
<i>Animal Science Discipline Core Courses:</i>		
<i>Choose one Genetics:</i>		
3	ANS 540	Selection of Domestic Animals
3	ANS 575	Current Topics in Genomics and Proteomics
<i>Choose one Nutrition:</i>		
3	ANS 550	Applied Ruminant Nutrition
3	NTR 500	Principles of Human Nutrition
3	ANS (BCH) 571	Nutritional Biochemistry
<i>Choose one Physiology:</i>		
3	ANS 530	Adv. Applied Reproductive Physiology
3	ANS 552	Advanced Reproductive Physiology & Biotechnology
<i>Choose at least one other course from Departmental electives:</i>		
3	ANS 530	Adv. Applied Reproductive Physiology
3	ANS 550	Applied Ruminant Nutrition
3	ANS 552	Advanced Reproductive Physiology & Biotechnology
3	ANS 553	Growth & Development of Domestic Animals
3	ANS 554	Lactation, Milk and Nutrition
3	ANS 561	Equine Nutrition
3	ANS 571	Nutritional Biochemistry
3	ANS 575	Current Topics in Genomics and Proteomics
3	ANS 701	Protein and Amino Acid Metabolism
3	ANS 702	Reproductive Physiology of Mammals
3	ANS 706	Mammalian Embryo Manipulation
3	ANS 708	Genetics of Animal Improvement
3	ANS 709	Energy Metabolism
3	ANS 713	Quantitative Genetics and Breeding
3	ANS 764	Advances in Gastrointestinal Pathophysiology
3	ANS 775	Mineral Metabolism
3	ANS 780	Mammalian Endocrinology
3	ANS 785	Digestion and Metabolism in Ruminants

<sup>1</sup> Courses that may be substituted for ANS 601: ANS 603, Reproductive Physiology Seminar; ANS 604, Genetics Seminar; NTR 601, Nutrition Seminar; GS 850, Professionalism and Ethics; PHI 816, Research Ethics; or CBS 662, Professional Conduct in Biomedical Research.