

ANIMAL SCIENCES (067MJ)
EQUINE AND PRODUCTION ANIMAL SCIENCE OPTION CHECKLIST

Please use the following checklist to review your courses but also check on Degree Navigator to ensure all categories are "checked" off. Please contact Dr. Aparna Zama (zama@sebs.rutgers.edu; 848-932-8495), if you have any questions.

R1, R2, R3, and R7 are common to ALL Animal Science Options. R4, R5, R6, and R8 are specific to the Equine and Production Animal Science option.

R1: Biology Courses (3 courses; 10 credits)		Completed
01:119:115	General Biology I (4 cr)	
01:119:116	General Biology II (4 cr)	
01:119:117	Biological Research Lab (2 cr)	

R2: Chemistry Courses (3 courses; 9 credits)		Completed
01:160:161	General Chemistry I (4 cr)	
01:160:162	General Chemistry II (4 cr)	
01:160:171	Introduction to Experimentation (1 cr)	

R3: Animal Science Core Courses (6 courses; 16-17 credits)		Completed
11:067:142	Animal Science (3 cr)	
11:067:300	Integrative Physiology (4 cr) OR 01:146:356 Systems Physiology (3 cr)	
11:067:327	Animal Reproduction (3 cr)	
11:067:330	Animal Nutrition (3 cr)	
11:067:331	Animal Nutrition Lab (1 cr)	
11:067:328	Animal Genetics (3 cr)	

R4: Equine and Production Animal Science Requirements (24 credits)		Completed
11:067:336	Production Animal Management (3 cr)	
11:067:384	Horse Management (3 cr)	
11:067:406	Farm Productivity Analysis in the Animal Sciences (3 cr)	
11:373:121	Principles and Applications of Microeconomics (3 cr) AND 11:373:122 Principles and Applications of Macroeconomics (3 cr)	
OR		
01:220:102	Introduction to Microeconomics (3 cr) AND 01:220:103 Introduction to Macroeconomics (3 cr)	
11:373:231	Introduction to Marketing (3 cr) OR 11:020:305 Starting and Managing a Small Farm (3 cr)	
11:373:241	Introduction to Management (3 cr)	
33:010:272	Introduction to Financial Accounting (3 cr) OR 11:373:200 Agricultural Accounting (3 cr)	

R5: Mathematics (7 credits)		Completed
01:640:111	Precalculus Pt. I (2 cr) AND 01:640:112 Precalculus Pt. 2 (2 cr)	
OR		
01:640:115	Precalculus College Mathematics (4 cr)	
OR		
01:640:135	Calculus I (4 cr)	
OR		
01:640:151	Calculus for Mathematical and Physical Sciences (4 cr)	
AND		
01:960:285	Introductory Statistics for Business (3 cr)	

R6: Equine and Production Animal Science Electives (6 credits)		Completed
11:067:310	Domestic Animal Behavior and Welfare (3 cr)	
11:067:390	Equine Nutrition (3 cr)	
11:067:391	Comparative Mammalian Anatomy (3 cr)	
11:067:398	Advanced Equine Health Care & Management (3 cr)	
11:067:401	Topics in Equine Science (3 cr)	
11:067:402	Equine Exercise Physiology (3 cr)	
11:067:404	Animal Diseases (3 cr)	
11:067:460	Animals and the Law (3 cr)	
11:216:360	Animal Physiological Ecology (3 cr)	
11:373:321	Economics of Production (3 cr)	
11:375:453	Soil Ecology (3 cr)	
11:776:301	The Grain Crops (3 cr)	
11:776:440	Soil Fertility (3 cr)	

R7: Experiential Learning Courses (7 credits)		Completed
11:067:175	Animal Handling, Fitting and Exhibition (1 cr)	
11:067:176	Animal Handling, Fitting and Exhibition Supervisor (1 cr)	
11:067:201	Cattle Practicum (2 cr)	
11:067:202	Small Ruminant Practicum (2 cr)	
11:067:203	Swine Practicum (2 cr)	
11:067:205	Laboratory Animal Practicum (2 cr)	
11:067:207	Horse Practicum (2 cr)	
11:067:260	Animal Evaluation and Selection (3 cr)	
11:067:322	Dairy Cattle Artificial Insemination (1 cr)	
11:067:411	Studies in Animal Science (variable cr)	
11:067:414	Teaching in Animal Science (variable cr)	
11:067:415	Leadership in Animal Science (variable cr)	
11:067:493/494	Research in Animal Science (variable cr)	
11:554:487/488	GH Cook Honors Program (variable cr)	
11:902:300/301	SEBS Internship I/II (3-6 cr)	

R8: Animal Science Electives (6 credits)		Completed
11:020:210	Introduction to Agriculture and Food Systems (3 cr)	
11:067:101	Careers in Animal Science (3 cr)	
11:067:250	Companion Animal Science (3 cr)	
11:067:260	Animal Evaluation and Selection (3 cr)	
11:067:275	Laboratory Animal Science: Management and Techniques (3 cr)	
11:067:295	Biosecurity in Animal Agriculture (3 cr)	
11:067:296	Honors Seminar (3 cr)	
11:067:310	Domestic Animal Behavior and Welfare (3 cr)	
11:067:322	Dairy Cattle Artificial Insemination (1 cr)	
11:067:391	Comparative Mammalian Anatomy (3 cr)	
11:067:410	Neuroendocrinology (3 cr)	
11:067:430	Animal Microtechniques and Tissue Culture (4 cr)	
11:067:450	Endocrinology (4 cr)	
11:067:460	Animals and the Law (3 cr)	
11:067:490	Pathophysiology (3 cr)	
11:067:491	Reproductive and Developmental Toxicology (3 cr)	
11:067:492	Molecular and Cellular Physiology (3 cr)	
11:373:205	Small Business Essentials (3 cr)	
11:776:200	Modern Crop Production (3 cr)	
11:776:221	Principles of Organic Crop Production (3 cr)	