

**ANIMAL SCIENCES (067G)
COMPANION 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 R9 are common to ALL Animal Science Options. R4, R5, R6, R7, and R8 are specific to the Companion Animal Science option.

R1: General Biology (3 courses; 8-10 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)	
OR		
01:119:101	General Biology (4 cr)	
01:119:102	General Biology (4 cr)	

R2: General Chemistry (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: Proficiency in Animal Sciences (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) OR 01:447:380 Genetics (4 cr)	

R4: Companion Animal Science Requirements (8 courses; 20 credits)		Completed
01:160:209	Elementary Organic Chemistry (3 cr)	
01:160:211	Elementary Organic Chemistry Laboratory (1 cr)	
11:067:101	Careers in Animal Science (3 cr)	
11:067:250	Companion Animal Science (3 cr)	
11:067:404	Animal Diseases (3 cr)	
11:115:301	Introductory Biochemistry (3 cr)	
11:115:313	Introductory Biochemistry Laboratory (1 cr)	
11:216:441	Animal Behavior (3 cr)	

R5: Mathematics (4 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 for the Life and Social Sciences (4 cr)	
OR		
01:640:151	Calculus for Mathematical and Physical Sciences (4 cr)	

R6: Economics (6 credits)		Completed
11:373:121	Principles and Applications of Microeconomics (3 cr)	
AND		
11:373:122	Principles and Applications of Macroeconomics (3 cr)	

R7: Companion Animal Science Electives (6 credits)		Completed
11:067:275	Laboratory Animal Science: Management and Techniques (3 cr)	
11:067:322	Dairy Cattle Artificial Insemination (1 cr)	
11:067:336	Livestock Production and Management II (3 cr)	
11:067:384	Horse Management (3 cr)	
11:067:390	Equine Nutrition (3 cr)	
11:067:391	Comparative Mammalian Anatomy (3 cr)	
11:067:395	Animal Assisted Therapy (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)	
11:067:406	Farm Productivity Analysis in the Animal Sciences (3 cr)	
11:067:410	Neuroendocrinology (3 cr)	
11:067:413	Developing Future Leaders for the Equine Industry (1 cr)	
11:067:450	Endocrinology (4 cr)	
11:216:323	Ornithology (4 cr)	
11:216:325	Vertebrate Zoology (4 cr)	
**Courses are subject to change as courses are added or dropped. THIS IS NOT A COMPLETE LIST!		

R8: Behavior Requirement (2 courses)		Completed
01:830:311	Learning Process (3 cr)	
01:830:313	Physiological Psychology (3 cr)	
01:830:315	Comparative Psychology (3 cr)	
11:067:460	Animals and the Law (3 cr)	
11:067:461	Topics in Companion Animal Issues: Animals and Health (2 cr)	
11:067:310	Domestic Animal Behavior and Welfare (3 cr)	
11:216:240	Behavioral Biology (3 cr)	
11:216:269	Evolution of Animal Behavior (3 cr)	

R9: Experience-Based Education (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)	
11:067:411	Studies in Animal Science (1-4 cr)	
11:067:414	Teaching in Animal Science (1-3 cr)	
11:067:415	Leadership in Animal Science (1-2 cr)	
11:067:416	<i>In Vivo</i> Lab Animal Techniques (3 cr)	
11:067:493/494	Research in Animal Science (1-6 cr)	
11:554:487/488	GH Cook Honors Program (6-12 cr)	
11:902:300/301	SEBS Internship I/II (3 cr or 6 cr)	