

ANIMAL SCIENCES (067)
LABORATORY 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 Laboratory 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 (7 courses; 16-17 credits)		Completed
11:067:142	Animal Science (3 cr)	
11:067:205	Lab Animal Practicum (2 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: Laboratory Animal Science Requirements (6 courses; 20 credits)		Completed
11:067:275	Laboratory Animal Science: Management & Techniques (3 cr)	
11:067:404	Animal Diseases (3 cr)	
11:067:430	Animal Microtechniques and Tissue Culture (4 cr)	
01:960:401	Basic Statistics for Research (3 cr)	
11:680:390	General Microbiology (4 cr) OR 01:447:390 General Microbiology (4 cr)	
11:373:121	Principles and Applications of Microeconomics (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: Organic Chemistry (10 credits)		Completed
01:160:307	Organic Chemistry I (4 cr)	
01:160:308	Organic Chemistry II (4 cr)	
01:160:311	Organic Chemistry Laboratory (2 cr)	
OR		
01:160:313	Organic Chemistry Lab Pt. 1 (1 cr) AND 01:160:314 Organic Chemistry Lab Pt. 2 (1 cr)	

R7: 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)	
11:067:200	Animal Practicum (2 cr)	
11:067:204	Animal Practicum (2 cr)	
11:067:205	Laboratory Animal 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)	

R8: Laboratory Animal Science Electives (6 credits)		Completed
11:067:101	Careers in Animal Science (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)	
11:067:416	<i>In Vivo</i> Lab Animal Techniques (3 cr)	
11:067:450	Endocrinology (4 cr)	
11:067:460	Animals and the Law (3 cr)	
11:067:490	Pathophysiology (3 cr)	
**Courses are subject to change as courses are added or dropped. THIS IS NOT A COMPLETE LIST!		