

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.

GENERAL CORE REQUIREMENTS

General Biology (8-10 credits)		Completed
01:119:115	General Biology I (4 cr)	<input type="checkbox"/>
01:119:116	General Biology II (4 cr)	<input type="checkbox"/>
01:119:117	Biological Research Lab (1 cr)	<input type="checkbox"/>
OR		
01:119:101	General Biology (4 cr)	<input type="checkbox"/>
01:119:102	General Biology (4 cr)	<input type="checkbox"/>

General Chemistry (7 credits)		Completed
01:160:161	General Chemistry I (3 cr)	<input type="checkbox"/>
01:160:162	General Chemistry II (3 cr)	<input type="checkbox"/>
01:160:171	Introduction to Experimentation (1 cr)	<input type="checkbox"/>

Proficiency in Animal Sciences (16-17 credits)		Completed
11:067:142	Animal Science (3 cr)	<input type="checkbox"/>
11:067:300	Integrative Physiology (4 cr)	<input type="checkbox"/>
OR		
01:146:356	Systems Physiology (3 cr)	<input type="checkbox"/>
11:067:327	Animal Reproduction (3 cr)	<input type="checkbox"/>
11:067:330	Animal Nutrition (3 cr)	<input type="checkbox"/>
11:067:331	Animal Nutrition Lab (1 cr)	<input type="checkbox"/>
11:067:328	Animal Genetics (3 cr)	<input type="checkbox"/>
OR		
01:447:380	Genetics (4 cr)	<input type="checkbox"/>

Experience-Based Education (7 credits)		Completed
11:067:175	Animal Handling, Fitting, and Exhibition (1 cr)	<input type="checkbox"/>
11:067:201	Dairy Cattle Practicum (2 cr)	<input type="checkbox"/>
11:067:202	Small Ruminant Practicum	<input type="checkbox"/>
11:067:203	Swine Practicum (2 cr)	<input type="checkbox"/>
11:067:207	Horse Practicum (2 cr)	<input type="checkbox"/>
11:067: 300/301	SEBS Internship I/II (3 cr)	<input type="checkbox"/>
11:902:411	Studies in Animal Science (cr varies)	<input type="checkbox"/>
11:067:493/494	Research in Animal Science (cr varies)	<input type="checkbox"/>
11:067:497/498	GH Cook Scholars Program (cr varies)	<input type="checkbox"/>

LABORATORY ANIMAL SCIENCE OPTION-SPECIFIC REQUIREMENTS

Mathematics (4 credits)		Completed
01:640:111	Precalculus Pt. 1 (2 cr)	<input type="checkbox"/>
AND		
01:640:112	Precalculus Pt. 2 (2 cr)	<input type="checkbox"/>
OR		
01:640:115	Precalculus College Mathematics (4 cr)	<input type="checkbox"/>
OR		
01:640:135	Calculus I (4 cr)	<input type="checkbox"/>
OR		
01:640:151	Calculus for Mathematical and Physical Sciences (4 cr)	<input type="checkbox"/>

Organic Chemistry (10 credits)		Completed
11:160:307	Organic Chemistry I (4 cr)	<input type="checkbox"/>
11:160:308	Organic Chemistry II (4 cr)	<input type="checkbox"/>
11:160:311	Organic Chemistry Laboratory (2 cr)	<input type="checkbox"/>
OR		
11:160:313	Organic Chemistry Laboratory Pt 1 (1 cr)	<input type="checkbox"/>
AND		
01:160:314	Organic Chemistry Laboratory Pt 2 (1 cr)	<input type="checkbox"/>

LABORATORY ANIMAL SCIENCE OPTION-SPECIFIC REQUIREMENTS CONT.

Laboratory Animal Science Requirements (17 credits)		Completed
11:067:275	Laboratory Animal Science: Management and Techniques (3 cr)	<input type="checkbox"/>
11:067:404	Animal Diseases (3 cr)	<input type="checkbox"/>
11:067:430	Animal Microtechniques and Tissue Culture (4 cr)	<input type="checkbox"/>
01:960:401	Basic Stats for Research (3 cr)	<input type="checkbox"/>
11:680:390	General Microbiology (4 cr)	
OR		
01:447:390	General Microbiology (4 cr)	<input type="checkbox"/>

Animal Practicum (2 credits)		Completed
11:067:205	Laboratory Animal Practicum (2 cr)	<input type="checkbox"/>

Economics (3 credits)		Completed
11:373:121	Principles and Applications of Microeconomics (3 cr)	<input type="checkbox"/>
OR		
01:220:102	Introduction to Microeconomics (3 cr)	<input type="checkbox"/>

Laboratory Animal Science Electives (6 credits)		Completed
11:067:101	Careers in Animal Science (3 cr)	<input type="checkbox"/>
11:067:322	Dairy Cattle Artificial Insemination (1 cr)	<input type="checkbox"/>
11:067:3367	Livestock Production and Management (3 cr)	<input type="checkbox"/>
11:067:384	Horse Management (3 cr)	<input type="checkbox"/>
11:067:390	Equine Nutrition (3 cr)	<input type="checkbox"/>
11:067:391	Comparative Mammalian Anatomy (3 cr)	<input type="checkbox"/>
11:067:395	Animal Assisted Therapy (3 cr)	<input type="checkbox"/>
11:067:390	Equine Nutrition (3 cr)	<input type="checkbox"/>
11:067:398	Advanced Equine Health Care and Management (3 cr)	<input type="checkbox"/>
11:067:401	Topics in Equine Science (3 cr)	<input type="checkbox"/>
11:067:402	Equine Exercise Physiology (3 cr)	<input type="checkbox"/>
11:067:403	Techniques in Equine Exercise Physiology (3 cr)	<input type="checkbox"/>
11:067:406	Farm Productivity Analysis in the Animal Sciences (3 cr)	<input type="checkbox"/>
11:067:410	Neuroendocrinology (3 cr)	<input type="checkbox"/>
11:067:413	Developing Future Leaders for the Equine Industry (1 cr)	<input type="checkbox"/>
11:067:450	Endocrinology (4 cr)	<input type="checkbox"/>
11:067:460	Animals and the Law (3 cr)	<input type="checkbox"/>
11:067:490	Pathophysiology (3 cr)	<input type="checkbox"/>
**Courses are subject to change as courses are added or dropped. THIS IS NOT A COMPLETE LIST!		