

## ANIMAL SCIENCES (067E)

### PREVETERINARY MEDICINE AND RESEARCH 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](mailto: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"/>
<b>OR</b>		
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"/>
<b>OR</b>		
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"/>
<b>OR</b>		
01:447:380	Genetics (4 cr)	<input type="checkbox"/>

Experience-Based Education (9 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"/>
11:067:205	Laboratory Animal Practicum (2 cr)	<input type="checkbox"/>
11:067:207	Horse Practicum (2 cr)	<input type="checkbox"/>
11:902:300/301	SEBS Internship I/II (3 cr)	<input type="checkbox"/>
11:067:411	Studies in Animal Science (cr varies)	<input type="checkbox"/>
11:067:493/494	Research in Animal Science (cr varies)	<input type="checkbox"/>
11:015:497/498	GH Cook Scholars Program (cr varies)	<input type="checkbox"/>

#### PREVETERINARY MEDICINE AND RESEARCH OPTION-SPECIFIC REQUIREMENTS

Calculus (4 credits)		Completed
01:640:135	Calculus I (4 cr)	<input type="checkbox"/>
<b>OR</b>		
01:640:151	Calculus for Mathematical and Physical Sciences (4 cr)	<input type="checkbox"/>

Organic Chemistry (10 credits)		Completed
01:160:307	Organic Chemistry I (4 cr)	<input type="checkbox"/>
01:160:308	Organic Chemistry II (4 cr)	<input type="checkbox"/>
01:160:311	Organic Chemistry Laboratory (2 cr)	<input type="checkbox"/>

Physics I (4 credits)		Completed
01:750:193	Physics for the Sciences I (4 cr)	<input type="checkbox"/>
<b>OR</b>		
01:750:203	General Physics I (3 cr)	<input type="checkbox"/>
<b>AND</b>		
01:750:205	General Physics I Laboratory (1 cr)	<input type="checkbox"/>
<b>OR</b>		
01:750:201	Extended General Physics I (4 cr)	<input type="checkbox"/>

Physics II (4 credits)		Completed
01:750:194	Physics for the Sciences II (4 cr)	<input type="checkbox"/>
<b>OR</b>		
01:750:204	General Physics II (3 cr)	<input type="checkbox"/>
<b>AND</b>		
01:750:206	General Physics II Laboratory (1 cr)	<input type="checkbox"/>
<b>OR</b>		
01:750:202	Extended General Physics II (4 cr)	<input type="checkbox"/>

**PREVETERINARY MEDICINE AND RESEARCH OPTION-SPECIFIC REQUIREMENTS CONT.**

<b>Preveterinary Medicine and Research Requirements (13 credits)</b>		<b>Completed</b>
11:680:390	General Microbiology (4 cr)	<input type="checkbox"/>
<b>OR</b>		
01:447:390	General Microbiology (4 cr)	<input type="checkbox"/>
01:960:401	Basic Statistics for Research (3 cr)	<input type="checkbox"/>
11:115:403	General Biochemistry I (3 cr)	<input type="checkbox"/>
11:11:404	General Biochemistry II (3 cr)	<input type="checkbox"/>

<b>Advisor-Approved Electives (6 credits)</b>		<b>Completed</b>
11:067:101	Careers in Animal Science (3 cr)	<input type="checkbox"/>
11:067:250	Companion Animal Science (3 cr)	<input type="checkbox"/>
11:067:275	Laboratory Animal Science: Management and Techniques (3 cr)	<input type="checkbox"/>
11:067:322	Dairy Cattle Artificial Insemination (1 cr)	<input type="checkbox"/>
11:067:366	Livestock Production and Management (3 cr)	<input type="checkbox"/>
11:067:384	Horse Management (3 cr)	<input type="checkbox"/>
11:067:413	Developing Future Leaders for the Equine Industry (1 cr)	<input type="checkbox"/>
11:067:460	Animals and the Law (3 cr)	<input type="checkbox"/>
<b>**Please see your Academic Advisor for additional Advisor-Approved Electives. THIS IS NOT A COMPLETE LIST!</b>		

<b>Preveterinary Medicine and Research Electives (3 courses)</b>		<b>Completed</b>
11:067:390	Equine Nutrition (3 cr)	<input type="checkbox"/>
11:067:391	Comparative Mammalian Anatomy (3 cr)	<input type="checkbox"/>
11:067:398	Advanced Equine Health Care & Management (3 cr)	<input type="checkbox"/>
11:067:403	Techniques in Equine Exercise Physiology (3 cr)	<input type="checkbox"/>
11:067:404	Animal Diseases (3 cr)	<input type="checkbox"/>
11:067:410	Neuroendocrinology (3 cr)	<input type="checkbox"/>
11:067:430	Animal Microtechniques and Tissue Culture (4 cr)	<input type="checkbox"/>
11:067:450	Endocrinology (4 cr)	<input type="checkbox"/>
11:067:490	Pathophysiology (3 cr)	<input type="checkbox"/>
11:067:491	Reproductive and Developmental Toxicity (3 cr)	<input type="checkbox"/>
11:067:492	Molecular and Cellular Physiology (3 cr)	<input type="checkbox"/>
11:370:406	Medical and Veterinary Entomology (3 cr)	<input type="checkbox"/>
01:146:322	Animal Histology (4 cr)	<input type="checkbox"/>
01:146:474	Immunology (3 cr)	<input type="checkbox"/>
01:377:424	Human Anatomy (4 cr)	<input type="checkbox"/>
01:640:136	Calculus II (4 cr)	<input type="checkbox"/>
<b>** Courses are subject to change as courses are added or dropped. THIS IS NOT A COMPLETE LIST!</b>		