

ANIMAL SCIENCES (067E)
PREVETERINARY Medicine and RESEARCH OPTION
CHECK LIST

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 Biology (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 (1 cr)	
OR		
01:119:101	General Biology (4 cr)	
01:119:102	General Biology (4 cr)	
Proficiency in Animal Sciences (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)	

General Chemistry (7 credits)		Completed
01:160:161	General Chemistry I (3 cr)	
01:160:162	General Chemistry II (3 cr)	
01:160:171	Introduction to Experimentation (1 cr)	

Experience-Based Education (9 credits)		Completed
11:067:175	Animal Handling, Fitting and Exhibition (1cr)	
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)	
11:902:300/301	SEBS Internship 1/11 (3 cr)	
11:067:411	Studies in Animal Science (cr varies)	
11:067:414	Teaching in Animal Science	
11:067:415	Leadership in Animal Science	
11:067:493/494	Research in Animal Science (cr varies)	
11:015:497/498	GH Cook Scholars Program (cr varies)	

PREVETERINARY MEDICINE AND RESEARCH OPTION - SPECIFIC REQUIREMENTS

Calculus (14 credits)		Completed
01:640:135	Calculus I (4 cr)	
OR		
01:640:151	Calculus for Mathematical and Physical Sciences (4 cr)	

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)	

Physics I (4 credits)		Completed
01:750:193	Physics for the Sciences I (4 cr)	
OR		
01:750:203	General Physics I (3 cr)	
AND		
01:750:205	General Physics I Laboratory (1 cr)	
OR		
01:750:201	Extended General Physics I (4 cr)	

Physics II (4 credits)		Completed
01:750:194	Physics for the Sciences II (4 cr)	
OR		
01:750:204	General Physics II (3 cr)	
AND		
01:750:206	General Physics II Laboratory (1 cr)	
OR		
01:750:202	Extended General Physics II (4 cr)	

PREVETERINARY MEDICINE AND RESEARCH OPTION - SPECIFIC REQUIREMENTS CONT.

Preveterinary Medicine and Research Requirements (13 credits)		Completed
11:680:390	General Microbiology (4 cr)	
OR		
01:447:390	General Microbiology (4 cr)	
01:960:401	Basic Statistics for Research (3 cr)	
11:115:403	General Biochemistry I (3 cr)	
11:115:404	General Biochemistry II (3 cr)	

Advisor-Approved Electives (6 credits)		Completed
11:067:101	Careers in Animal Science (3cr)	
11:067:250	Companion Animal Science (3 cr)	
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 (3 cr)	
11:067:384	Horse Management (3 cr)	
11:067:413	Developing Future Leaders for the Equine Industry (1 cr)	
11:067:460	Animals and the Law (3 cr)	

****Please see your Academic Advisor for additional Advisor-Approved Electives. THIS IS NOT A COMPLETE LIST!**

Preveterinary Medicine and Research Electives (3 courses)		Completed
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)	
11:067:404	Animal Diseases (3 cr)	
11:067:410	Neuroendocrinology (3 cr)	
11:067:430	Animal Microtechniques and Tissue Culture (4 cr)	
11:067:450	Endocrinology (4 cr)	
11:067:490	Pathophysiology (3 cr)	
11:067:491	Reproductive and Developmental Toxicity (2cr)	
11:067:492	Molecular and Cellular Physiology (3 cr)	
11:370:406	Medical and Veterinary Entomology (3 cr)	
11:146:322	Animal Histology (4 cr)	
11:146:474	Immunology (3 cr)	
11:377:424	Human Anatomy (4 cr)	
11:640:136	Calculus II (4 cr)	

****Courses are subject to change as courses are added or dropped. THIS IS NOT A COMPLETE LIST!**