

**ANIMAL SCIENCES (067P)
PRODUCTION ANIMAL SCIENCE 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 CORE REQUIREMENTS

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)	

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)	

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)	

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)	

PRODUCTION ANIMAL SCIENCE OPTION - SPECIFIC REQUIREMENTS

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 (4 cr)	
OR		
01:640:151	Calculus for Mathematical and Physical Sciences (4 cr)	

Advisor-Approved Electives (6 credits)		Completed
11:067:101	Careers in Animal Science (3cr)	
11:067:322	Dairy Cattle Artificial Insemination (1 cr)	
11:067:391	Comparative Mammalian Anatomy (3 cr)	
11:067:410	Neuroendocrinology (3 cr)	
11:067:430	Animal Microtechniques and Tissue Culture (4 cr)	
11:067:450	Endocrinology (4 cr)	
11:067:460	Animals and the Law (3 cr)	
11:067:90	Pathophysiology (3 cr)	

PRODUCTION ANIMAL SCIENCE OPTION REQUIREMENTS CONT.

Companion Animals Science Requirements (20 credits)		Completed
01:160:209	Elementary Organic Chemistry (3 cr)	
01:160:211	Elementary Organic Chemistry Laboratory (1 cr)	
11:373:231	Introduction to Marketing (3 cr)	
11:373:241	Introduction to Management (3 cr)	
33:010:272	Introduction to Financial Accounting (3 cr)	
11:067:336	Livestock Production and Management (3 cr)	
11:067:338	Livestock Production and Management Laboratory (2 cr)	
11:067:406	Farm Productivity Analysis in the Animal Sciences (3 cr)	

Companion Animal Science Electives (6 credits)		Completed
11:067:384	Horse Management (3 cr)	
11:067:398	Advanced Equine Health Care & Management (3 cr)	
11:067:413	Developing Future Leaders for the Equine Industry (1 cr)	
11:375:453	Soil Ecology (3 cr)	
11:704:360	Animal Physiological Ecology	
11:776:200	Modern Cop Production (3 cr)	
11:776:221	Principles of Organic Crop Production (3 cr)	
11:776:301	The Grain Crops (3 cr)	
11:776:440	Soil Fertility (3 cr)	
11:020:210	Introduction to Agriculture and Food Systems (3 cr)	

Economics (6 credits)		Completed
11:373:121	Principles and Applications of Microeconomics (3 cr)	
OR		
11:220:102	Introduction to Microeconomics (3 cr)	
And		
01:373:122	Principles and Applications of Macroeconomics (3 cr)	
OR		
01:220:103	Introduction to Macroeconomics (3 cr)	