

Endocrinology and Animal Biosciences Graduate Program

4+1 MS Course Credit Checklist

Total: 30 Credits

Requirement	Course (credits)	Credits Completed	Semester/Year Completed
Core Courses	At least 1 course from each core area. Courses listed in multiple categories can only be used for one core area.		
Core 1: Endocrinology	16:340:510 Neuroendocrinology (3)		
	16:340:591 Reproductive and Developmental Toxicology (4)		
	16:340:612 Recent Advances in Endocrinology (2)		
Core 2: Physiology	16:340:508 Equine Exercise Physiology (3)		
	16:340:591 Reproductive and Developmental Toxicology (4)		
	16:572:501 Advanced Exercise Physiology (3)		
	16:572:512 Advanced Applied Human Physiology (3)		
	16:572:511 Neurophysiology of Health (3)		
	16:963:512 Integrative Organ Physiology (3)		
Core 3: Molecular Biology and Biochemistry	16:682:531 Basic Biochemistry (3)		
	16:115:503 General Biochemistry (4)		
	16:115:504 General Biochemistry (4)		
	16:115:511 Molecular Biology and Biochemistry (3)		
	16:115:512 Molecular Biology and Biochemistry (3)		
	16:340:592 Molecular and Cellular Physiology (3)		
Core 4: Statistics and Experimental Design	16:115:557 Statistics in Biomedical Science (3)		
	16:125:578 Interdisciplinary Biostatistics Research Training for Molecular and Cellular Sciences: Enhancing Rigor and Reproducibility (3)		
	16:765:522 Applied Plant Science Statistics (3)		
	16:960:501 Statistical Theory for Research Workers (3)		
	16:960:590 Design of Experiments (3)		
	75:832:504 Introduction to Biostatistics (3)		
Seminar	Register for 2 semesters (2 credits total).		
	16:340:693 Seminar in Endocrinology and Animal Bioscience (1)		Fall
	16:340:694 Seminar in Endocrinology and Animal Bioscience (1)		Spring
Ethics Course	Required 1 credit.		
	16:115:556:90 Ethical Scientific Conduct (1)		
Animal Science Undergraduate Courses	6-8 credits taken during the third or fourth year (or in the +1 year with a 'G' prefix) can be included in the 30 total credits needed for the MS. However, these credits CANNOT be counted toward the 120 credits needed to graduate with a BS. See other courses listed on Degree Navigator as Pre-Vet electives.		
	11:067:391 Comparative Mammalian Anatomy (3)		
	11:067:404 Animal Diseases (3)		
	11:067:430 Animal Microtechniques and Tissue Culture (4)		
	11:067:450 Endocrinology (4)		
	11:067:490 Pathophysiology (3)		
Additional Courses of Interest	16:370:503 Medical Entomology (3)		
	16:681:543 Current Concepts of Immunology (3)		
	16:682:576 Microbiomes and Health (3)		
	16:709:552 Nutrition: A Biochemical and Physiological Basis (4)		
	16:709:553 Nutrition: A Biochemical and Physiological Basis (4)		
	16:963:631 Toxicological Pathology (3)		
	18:844:511 Ethics and Prof. Dev. (3)		
Other Electives Taken			
	Course Credits Total		
Research (optional)	Up to 3 credits per semester (6 credits total).		
	16:340:601 Non-Thesis Research in Endocrinology and Animal Biosciences (BA)		Fall
	16:340:602 Non-Thesis Research in Endocrinology and Animal Biosciences (BA)		Spring
	Research Credits Total		
	Degree Credits Total		