

# COMPARATIVE BIOMEDICAL SCIENCES, DOCTOR OF PHILOSOPHY (PH.D.)

Applicants with a minimum of B.S. or equivalent or a higher degree in biological or medical sciences may be admitted to the Doctor of Philosophy (Ph.D.) program. Students must complete the course requirements of 24 credits (for candidates with B.S. or equivalent degrees) or 12 credits (for candidates with MPH, M.S. or a D.V.M., M.D. or equivalent degrees) in addition to a minimum of 12 dissertation research credits (VMSC899). Students must maintain an overall GPA of 3.0 or better in courses taken for graduate credit per Graduate School policy.

Restricted Electives (Choose 7 credits from the following):		7
VMSC610	Recombinant Viral Vectors	
VMSC660	Emerging and Re-emerging Infectious Diseases	
VMSC670	Molecular Epidemiology of Infectious Diseases (Molecular Epidemiology of Infectious Disease)	
VMSC689	Use of Genomics and Proteomics in Infectious Disease	
VMSC720	Viral Pathogenesis	
VMSC760	Immunology of Infectious Diseases	
VMSC899	Dissertation Research	12
<b>Total Credits</b>		<b>24</b>

## Doctoral program requirements

The plan of study must be approved by the Advisor and Chair of the Graduate Admissions and Examination Review Committee by the end of the first semester of enrollment. By the end of the fourth semester, a student should have completed their core course requirement and present a dissertation research proposal to the Advisory Committee. For entering Ph.D. candidacy, a student must pass a qualifying examination (written and oral) satisfactorily by the end of the sixth semester. A dissertation based on independent and original research must be submitted to the CBSC Program and the Graduate School. The student must present the dissertation in a public seminar and pass a final oral examination given by the Advisory Committee.

## For Students with B.S. or Equivalent:

Course	Title	Credits
BISI712	Responsible Conduct of Research for Biologists	1
VMSC698	One Health Seminar	4
VMSC758	Journal Club in Comparative Biomedical Sciences (Journal Club in Comparative Biomedical Sciences)	4
Restricted Electives (Choose at least 10 credits from the following courses):		10
VMSC610	Recombinant Viral Vectors	
VMSC660	Emerging and Re-emerging Infectious Diseases	
VMSC670	Molecular Epidemiology of Infectious Diseases (Molecular Epidemiology of Infectious Diseases)	
VMSC689	Use of Genomics and Proteomics in Infectious Disease	
VMSC720	Viral Pathogenesis	
VMSC760	Immunology of Infectious Diseases	
Additional Credits (from restricted electives or other courses with advisor's approval)		5
VMSC899	Dissertation Research	12
<b>Total Credits</b>		<b>36</b>

## For Students with M.S. or Equivalent:

Course	Title	Credits
BISI712	Responsible Conduct of Research for Biologists	1
VMSC698	One Health Seminar	2
VMSC758	Journal Club in Comparative Biomedical Sciences (Journal Club in Comparative Biomedical Sciences)	2