Anatomy, Physiology, and Pharmacology

Students must include courses in at least two of the four categories

**BMS Core Requirements***

- BCHE 7200  Advanced Biochemistry I
- BCHE 7210  Advanced Biochemistry II
- STAT 7000  Experimental Statistics
- VBMS 7280  Physics of Diagnostic Imaging
- VBMS 7500  Cellular and Molecular Immunology
- VBMS 7520  Eukaryotic Molecular Biology
- VBMS 7540  Current Topics in Molecular Virology
- VBMS 7710  Advanced Eukaryotic Molecular Biology
- VBMS 7720  Developmental Molecular Biology

* For Master's program, a minimum of 6 credit hours are required. For PhD program, a minimum of 12 credit hours are required.

Thesis Option:
Minimum of 4 semester hours of VBMS 7990 Research and Thesis

Non-Thesis Option:
Minimum of 3 semester hours of VBMS 7980 Non-Thesis Research
Maximum of 3 semester hours may be counted toward minimum degree requirements
**Pathobiology**

Students must include courses in at least two of the four categories

**BMS Core Requirements**

- BCHE 7200 Advanced Biochemistry I
- BCHE 7210 Advanced Biochemistry II
- STAT 7000 Experimental Statistics
- VBMS 7280 Physics of Diagnostic Imaging
- VBMS 7500 Cellular and Molecular Immunology
- VBMS 7520 Eukaryotic Molecular Biology
- VBMS 7540 Current Topics in Molecular Virology
- VBMS 7710 Advanced Eukaryotic Molecular Biology
- VBMS 7720 Developmental Molecular Biology

* For Master's program, a minimum of 6 credit hours are required. For PhD program, a minimum of 12 credit hours are required.

**Pathobiology Core**

- BIOL 6260 Prokaryotic Molecular Genetics

**Pathobiology Electives**

- STAT 7010 Experimental Statistics II
- BCHE 7220 Principles of Cellular and Molecular Enzymology
- BCHE 7230 Biochemistry of Macromolecules
- VBMS 7450 Selected Topics in Graduate Education Research
- VBMS 7460 Bacterial Pathogenesis
- VBMS 7470 Advanced Epidemiology
- VBMS 7480 Methods in Immunology
- VBMS 7490 Diagnostic Techniques in Veterinary Microbiology
- VBMS 7530 Experimental Techniques in Molecular and Cell Biology
- VBMS 7540 Current Topics in Molecular Virology
- VBMS 7640 Mechanisms of Disease
- VBMS 7650 Veterinary Protozoology Andentomology
- VBMS 7660 Veterinary Helminthology
- VBMS 7670 Pathology Parasitic Diseases
- VBMS 7970 Research Problems in Biomedical Sciences
- VBMS 7990 Research and Thesis in Biomedical Sciences
- VBMS 8950 Biomedical Sciences Seminar
- VBMS 8990 Research and Dissertation

**Thesis Option:**

Minimum of 4 semester hours of VBMS 7990 Research and Thesis

**Non-Thesis Option:**

Minimum of 3 semester hours of VBMS 7980 Non-Thesis Research

Maximum of 3 semester hours may be counted toward minimum degree requirements
Clinical Sciences

Clinical Science Core*

VBMS 7070  Endocrinology  
VBMS 7090  Clinical Pharmacology  
VBMS 7210  Radiation Biology  
VBMS 7470  Advanced Epidemiology  
VBMS 7530  Experimental Techniques in Molecular & Cellular Biology  
VBMS 7640  Mechanisms of Disease  
ANSC 7600  Physiology of Reproduction

* For Master’s program, a minimum of 6 credit hours are required. For PhD program, a minimum of 12 credit hours are required.

Thesis Option:
Minimum of 4 semester hours of VBMS 7990 Research and Thesis

Non-Thesis Option:
Minimum of 3 semester hours of VBMS 7980 Non-Thesis Research
Maximum of 3 semester hours may be counted toward minimum degree requirements