

# Master of Science Program

## Program

Veterinary Science

## Degree Type

Master of Science

## Thesis Work

Item #	Title	Credits
IDGS 900	MSc Seminar	1
IDGS 901	MSc Project Proposal Seminar	1
IDGS 902	MSc Written Project Proposal	2
	IDGS 903	15
IDGS 904	MSc Thesis Seminar	2
IDGS 905	MSc Thesis Defense	1

## Basic Courses

Item #	Title	Credits
BIOE 801	Research Ethics and Human Subjects	1
IDGS 807	Research Design and Biostatistics	3
MICR 825	Scientific Text: Organization and Presentation (STOP)	2

## Major Required Courses

A minimum of six (6) credits of courses specific to one's degree must be completed. Students can choose according to their interests from the list provided.

## Anatomical Pathology

Item #	Title	Credits
VSGP 842	Advanced Necropsy Training	2
VSGP 843	Pathology of Important Emerging and Exotic Diseases of Livestock and Poultry	3
VSGP 844	Advanced Molecular Techniques	3
VSGP 845	Special Topics in Veterinary Pathology	1
VSGP 846	Veterinary Neuropathology	2
VSGP 847	Pathology of Laboratory Animal Diseases	2
VSGP 848	Cellular Response to Injury/Stimuli	2

## Anatomy

Item #	Title	Credits
VSGP 803	Radiology and Ultrasonography	2
VSGP 810	Special Veterinary Anatomy	3
VSGP 813	Functional Anatomy of the Equine Limbs	2
VSGP 834	Advanced Veterinary Neuroanatomy	2
VSGP 835	Advanced Veterinary Anatomy	4
VSGP 836	Advanced Avian Morphology	2
VSGP 837	Histochemistry and Quantitative Enzyme Assays	2
VSGP 841	Advanced Histology, Cytology & Molecular Biology	2

## Aquatic Animal Health

Item #	Title	Credits
PUBH 803	Principles of Epidemiology	3
PUBH 807	Principles of Environmental Health	3
VSGP 807	Wildlife Parasitology	1
VSGP 827	Diseases of North American Wildlife, Part 1	1
VSGP 828	Diseases of North American Wildlife, Part 2	1
VSGP 829	Special Topics in Fish Medicine and Surgery	2
VSGP 831	Histopathology of Fish	1
VSGP 832	Systemic Pathology of Fish	1
VSGP 8XX	Pathology of Emerging and Exotic Diseases	2

## Bacteriology

Item #	Title	Credits
VSGP 822	Advances in Bacteriology	3
VSGP 823	Diagnostic Bacteriology	3
VSGP 844	Advanced Molecular Techniques	3
VSGP 857	Host and Pathogenic Bacteria Interrelationship	1

## Clinical Pathology

Item #	Title	Credits
VSGP 842	Advanced Necropsy Training	2
VSGP 844	Advanced Molecular Techniques	3
VSGP 848	Cellular Response to Injury/Stimuli	2
VSGP 860	Diagnostic Cytology of Solid Masses	2
VSGP XXX	Clinical Pathology of Endocrine Disorders in Dogs and Cats	1
VSGP XXX	Bone Marrow Evaluation and Hematologic Oncology	1
VSGP XXX	Hematology of Pisces (Fish Hematology)	1

## Large Animal Clinical Sciences

Item #	Title	Credits
VSGP 866	Special Topics in Large Animal Surgery	1
VSGP 867	Special Topics in Large Animal Reproduction	1
VSGP 830	Large Animal Clinical Parasitology	2
VSGP XXX	Special Topics in Large Animal Medicine	2

## Parasitology

Item #	Title	Credits
PTHB 534	Problem Solving in Veterinary Parasitology	1
VSGP 802	Clinical Parasitology	2
VSGP 807	Wildlife Parasitology	1
VSGP 830	Large Animal Clinical Parasitology	2
VSGP 844	Advanced Molecular Techniques	3

## Pharmacology

Item #	Title	Credits
MICR 819	Medicinal Plants	1
MICR 822	Medical Biofilms	1
VSGP 812	Practical Applications of Molecular Assays	2
VSGP 823	Diagnostic Bacteriology	3
VSGP 849	Special Projects in Veterinary Pharmacology	2
VSGP 850	Molecular and Cellular Pharmacology	1
VSGP 851	Advanced Pharmacology of Autonomic Nervous System	1

## Small Animal Clinical Sciences

Item #	Title	Credits
VSGP 849	Special Projects in Veterinary Pharmacology	2
VSGP 850	Molecular and Cellular Pharmacology	1
VSGP XXX	Advanced Small Animal Internal Medicine	2
VSGP XXX	Advanced Veterinary Anesthesiology	3

## Virology

Item #	Title	Credits
VSGP 843	Pathology of Important Emerging and Exotic Diseases of Livestock and Poultry	3
VSGP 844	Advanced Molecular Techniques	3
VSGP 847	Pathology of Laboratory Animal Diseases	2
VSGP 857	Host and Pathogenic Bacteria Interrelationship	1
VSGP XXX	Advanced Topics in Veterinary Virology	1
VSGP XXX	Diagnostic Virology	2

## Wildlife Medicine

Item #	Title	Credits
PUBH 803	Principles of Epidemiology	3
VSGP 807	Wildlife Parasitology	1
VSGP 814	Introduction to Conservation Medicine	1
VSGP 818	Wildlife Health and Diseases	2
VSGP 821	Reptile and Amphibian Medicine and Surgery	2
VSGP 827	Diseases of North American Wildlife, Part 1	1
VSGP 828	Diseases of North American Wildlife, Part 2	1
VSGP 829	Special Topics in Fish Medicine and Surgery	2
VSGP 838	Wildlife Casualties	1
VSGP 844	Advanced Molecular Techniques	3
		34