

# MS in Biomedical Sciences with Emphasis in Veterinary Sciences

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## Degree Requirements

### Required Course

STAT 7020	Statistical Methods in the Health Sciences	3
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### Elective Courses

V_PBIO 7110	Veterinary Cytology	2
V_PBIO 7120	Principles of Toxicology	3
V_PBIO 7210	Animal Issues in Disasters	1
V_M_S 7320	Fundamentals of Small Animal Emergency and Critical Care	3
V_BSCI 7333	Veterinary Cell Biology	4
V_M_S 7510	Equine Clinical Anatomy: Forelimbs	1
V_M_S 8023	Internal Medicine Journal Review	1
V_M_S 8029	Emergency and Critical Care Journal Review	1
V_M_S 8040	Advanced Small Animal Clinical Nutrition	2
V_M_S 8090	Research in Veterinary Medicine and Surgery (Thesis)	1-99
BIOMED 8100	Veterinary Online Course Development and Teaching	3
BIOMED 8310	Advanced Topics in Stress Physiology	3
V_M_S 8485	Problems in Veterinary Clinical Sciences	1-3
BIOMED 8700	Principles of Veterinary Pain Management	2
BIOMED 8710	Essentials of Radiation Biology	2
BIOMED 8900	Small Animal Wound Management and Reconstructive Surgery	2

## Plan of Study

Thus plan of study is only one example of how courses may be selected and arranged. Your specific plan of study will be dependent upon your pace and individual area of interest.

### First Year

Fall	CR	Spring	CR	Summer	CR
V_PBIO 7110	2	V_M_S 8029	1	BIOMED 8710	2
V_M_S 8450	2	V_M_S 8450	2	V_M_S 8450	1
V_M_S 8023	1	BIOMED 7250	3		
	<b>5</b>		<b>6</b>		<b>3</b>

### Second Year

Fall	CR	Spring	CR
V_BSCI 7120	3	BIOMED 8700	2
BIOMED 8100	3	V_M_S 8450	3

STAT 7020	3	V_M_S 7320	3
	<b>9</b>		<b>8</b>

Total Credits: 31

## Thesis/Non- Thesis Requirements:

Students choosing the thesis option must follow the guidelines provided by the MU Graduate School for preparation and submission of an MS thesis. This option requires original laboratory research and external funding. It is recommended for students who plan for a career conducting research, striving for tenured track faculty positions, and/or a PhD degree. The non-thesis option requires a substantial project that results in a publishable paper in a peer-reviewed publication. The project can be retrospective studies, reviews of the literature, national surveys, or other projects pertinent to the student's career aspirations and approved by the student's graduate committee. The non-thesis option does not require external funding and is recommended by students who plan on careers that do not require laboratory research such as non-tenured track faculty positions, industrial (animal feeds or pharmaceuticals) marketing, or private practice in veterinary specialties.

## Admissions

### Qualified Candidates:

- Veterinarians (Graduates of an AVMA-accredited college of veterinary medicine)
- Veterinary Technologists (Graduates of a 2- or 4-year AVMA-accredited veterinary technician/technologist program with a baccalaureate degree in veterinary technology or another biological science)

### Requirements for Admission:

Note: All potential applicants are strongly encouraged to first submit their qualifications for a free pre-evaluation by completing and submitting a FREE PRE-APPLICATION EVALUATION OF QUALIFICATIONS ([https://missouri.qualtrics.com/jfe/form/SV\\_0vQA6m1Bg9lXVjv?Q\\_JFE=qdg](https://missouri.qualtrics.com/jfe/form/SV_0vQA6m1Bg9lXVjv?Q_JFE=qdg)).

Applicants are required to meet two sets of minimum qualifications for admission: the requirements of the MS in Biomedical Sciences, emphasis Veterinary Sciences program (<https://gradschool.missouri.edu/degreecategory/biomedical-sciences/>) and the minimum requirements of the University of Missouri graduate faculty, enforced by the MU Office of Graduate Studies (<https://gradschool.missouri.edu/admissions/eligibility-process/>). Because requirements vary, you MUST refer to a degree program's graduate admission page to learn about specific admission criteria, application deadlines, eligibility, and application process. Before admission to the University of Missouri, your application materials will be reviewed by both the Graduate School and the degree program to which you have applied.

## Advising and Support Services:

Director: Laurie LM. Wallace, DVM, MVSc, Associate Teaching Professor

Director Emeritus and Advisor: C.B. Chastain, DVM, MS, DACVIM, Professor

Administrative Assistant: June Kelly, Administrative Associate I