

Graduate Programs in the CVM

Graduate Programs

- **MS in Veterinary Biomedical Sciences**
 - **1-year accelerated MS program**
- **MPH (Dr. Ellyn Mulcahy)**
- **PhD in Pathobiology**
- **PhD in Anatomy and Physiology (Dr. Peying Fong)**

Current Graduate Students

- **Total: 152**
- **Total PhD: 50**
- **PhD in Pathobiology: 38**
 - **Dual DVM/PhD: 9**
- **PhD in Physiology: 12**

Current Graduate Students

- **Total MS: 102**
 - **MS in Physiology: 3 (1 Resident)**
 - **MS in Pathobiology: 37 (4 Residents)**
 - **MS Olathe Campus: 19**
 - **MS in Clinical Sci: 17 (12 Residents)**
 - **Accelerated MS: 26**
- **Dual DVM/MS: 9**

Veterinary Biomedical Sciences

- **Three subdisciplines:**
 - **Anatomy and Physiology**
 - **Clinical Sciences**
 - **Pathobiology**

Program Requirements: MS

- **30 credits**
 - **Thesis option: 6 to 12 credit hours of Research + 18 to 24 hours of courses**
 - **AP/CS/DMP 899 MS Research**
 - **Report option: 2 credits of Report +28 credits of courses**
 - **MS report (AP/CS/DMP 898)**
 - **Non-thesis and non-report option: 30 credits of courses**

Supervisory Committee: MS

- **Should be formed in the second semester**
- **Members:**
 - **Three members (minimum)**
 - **Major professor is the chair**
 - **Two members from any department/program**
 - **Members of Graduate Faculty**
 - **A member could be a faculty from another university. It requires special permission.**

<https://www.k-state.edu/grad/>

Supervisory Committee: MS

- **Should be formed in the second semester**
- **Members:**
 - **Three members (minimum)**
 - **Major professor is the chair**
 - **Two members from any department/program**
 - **Members of Graduate Faculty**
 - **A member could be a faculty from another university. It requires special permission.**
- **Schedule a meeting to present your tentative program of study and your research project**

Course Requirements: MS

- **At least 18 hours at 700 level or above (includes Research and Problem credits)**
- **600 level may be included.**
- **500 level outside the major field and no more than 6 credits.**
- **No more than 3 credits of Problem course**

Course Requirements: MS

- **Problem course: Individualized course. Generally, lab based.**
 - **AP 790. Problem in A&P**
 - **AP 890. Problem in Pharmacology**
 - **CS 890. Problem in Clinical Science**
 - **DMP 890. Problem in Pathobiology**
- **Variable credits: 1 to 3**

Course Requirements: MS

- **Students with a DVM degree or concurrently enrolled in the DVM can use up to 12 credits of DVM courses towards the MS degree.**

Course Requirements: MS

- **In AP and DMP:**
 - **Two credits of Seminar (AP 803; DMP 870)**
- **In CS:**
 - **A course in Statistics (STAT 701/703)**
 - **1 credit of Seminar (CS859/879)**

Program Requirements: PhD

- **90 credits after BS**
- **60 credits after MS.**
- **60 credits for dual degree or after DVM.**

Supervisory Committee: PhD

- **Should be formed in the second semester.**
- **Memberships:**
 - **Four members (minimum)**
 - **Major professor is the chair**
 - **One from outside the department**
 - **Minimum two members from within Pathobiology**
 - **A member could be a faculty from another university. It requires special permission.**

Course Requirements: PhD

- **Minimum of 30 credits must be research credits (AP999/DMP 999).**
- **Minimum of 15 hours at ≥ 800 level courses.**
- **3 credits of seminar. At least, one should be in A&P or DMP (DMP 970).**
- **A course in Research Ethics**
 - **AP806: Introduction to Responsible Conduct of Biomedical Research (2 credits)**

Course Requirements: PhD

- **PhD in Physiology:**
 - **AP 804: Veterinary Physiology I (5 Cr.)**
 - **AP 818: Veterinary Physiology II (6 Cr.)**
 - **STAT 701: Fundamental Methods of Biostatistics, (3 Cr.)**

Course Requirements: PhD

- **500 level courses should be outside the major field. No more than 6 hours.**
- **No more than 6 hours of problem courses (AP 995; DMP 980).**

Checklist-MS

Timeline	Activity	Task Completed
YEAR 1: 1st semester	<ul style="list-style-type: none"> • Review Graduate Handbook: http://www.k-state.edu/grad/graduate-handbook/chapter2.html • Review Department Graduate Program Information: http://www.vet.k-state.edu/education/dmp/ • Meet with your major professor to develop a Program of Study and decide on a thesis project/report/non-thesis and non-report option. 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2nd semester:	<ul style="list-style-type: none"> • Select supervisory committee (minimum of three members). All members must be Graduate faculty: https://catalog.k-state.edu/content.php?catoid=43&navoid=7752 • Prepare, in consultation with your major professor, a tentative Program of Study: http://www.k-state.edu/grad/academics/forms/ • Identify research compliance requirements, if applicable, for notation on the Program of Study: https://www.k-state.edu/comply/. • Schedule a supervisory committee meeting to seek approval of the Program of Study and present your assigned thesis project or report, if applicable. • Submit the Program of Study that has been approved by your supervisory committee to the Graduate School for review and final approval. • Fill out the Annual Progress Report and Self-Assessment and submit to Barb Turner, Graduate Program Assistant. • Meet with the major professor to discuss progress and evaluation reports and sign the Graduate Student-Mentor form. 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Graduate School



Academics

Admissions

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Chapter 2: The Master's Degree

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A. Admission and General Requirements

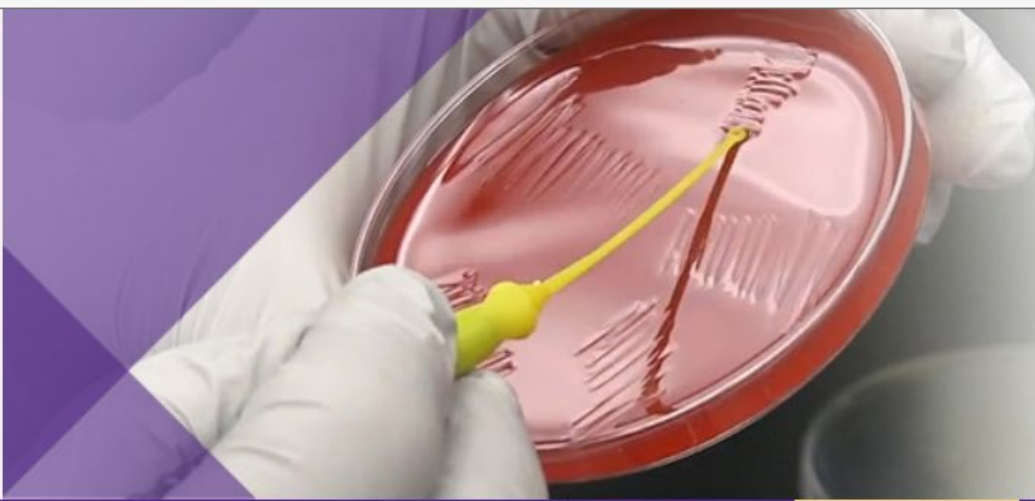
To gain admission to a Master's program, the student must be approved for admission both by the graduate faculty of the department or interdepartmental program and by the Graduate School.

A minimum of thirty semester hours of graduate credit is required for a master's degree, but some academic units may require more.

The Graduate School recognizes three different plans for a master's degree, and the graduate faculty in each

Checklist-MS

Timeline	Activity	Task Completed
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2nd semester:	<ul style="list-style-type: none"> • Select supervisory committee (minimum of three members). All members must be Graduate faculty: https://catalog.k-state.edu/content.php?catoid=43&navoid=7752 • Prepare, in consultation with your major professor, a tentative Program of Study: http://www.k-state.edu/grad/academics/forms/ • Identify research compliance requirements, if applicable, for notation on the Program of Study: https://www.k-state.edu/comply/. • Schedule a supervisory committee meeting to seek approval of the Program of Study and present your assigned thesis project or report, if applicable. • Submit the Program of Study that has been approved by your supervisory committee to the Graduate School for review and final approval. • Fill out the Annual Progress Report and Self-Assessment and submit to Barb Turner, Graduate Program Assistant. • Meet with the major professor to discuss progress and evaluation reports and sign the Graduate Student-Mentor form. 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>



Diagnostic Medicine /Pathobiology

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**Diagnostic
Medicine/Pathobiology**

College of Veterinary
Medicine

Kansas State University

K-221 Mosier Hall

Manhattan, KS 66506-5802

785.532.4401

Diagnostic Medicine/Pathobiology

The Department of Diagnostic Medicine/Pathobiology is a multidisciplinary department that helps train tomorrow's veterinarians and scientists, provides diagnostic service to the state and the nation, and conducts research on disease in animals and humans. We are proud of our commitments to diversity in our teaching, research and service missions.

Highlights in Research and Teaching

[Dr. Bob Rowland researches way to protect pigs from PRRS during reproduction](#)

Learn how Dr. Rowland is helping to eradicate a devastating swine disease.

[Preventing PRRS in Pigs](#)

[Cats a step closer to FIP treatment](#)

A field trial is having encouraging results from a treatment involving an antiviral



Kansas State Veterinary
DIAGNOSTIC LABORATORY

Events

No upcoming events.

[See all events](#)

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Degree Requirements

Anatomy and Physiology

The [Anatomy and Physiology](#) area of emphasis is administered by the Graduate Faculty and Ancillary Graduate Faculty in the Department of Anatomy and Physiology. The primary goal of graduate study in the Anatomy and Physiology Area of Emphasis is to prepare students for academic positions in various health science-related institutions such as Colleges of Veterinary Medicine and Schools of Medicine and Dentistry, as well as positions in industry and agribusiness. Animal welfare, epithelial physiology, stem cell biology and cancer, cardiopulmonary physiology, immunophysiology, nanomedicine, neuroscience and pharmacology are major themes of research in the department. Specific areas of interest include cell signaling, epithelial cell solute transport, comparative exercise physiology, food animal immunophysiology, molecular biology of membranes, mechanisms of stress phenomena, molecular genetics and gene mapping, neural control of cardiovascular function, and pathophysiology of microcirculation (<http://www.vet.k-state.edu/education/anatomy-physiology/research/research-faculty.html>).

Core Course Requirements

Anatomy and Physiology Seminar (AP 803) for two semesters. (1 credit hour per semester).

Pathobiology

The [Diagnostic Medicine/Pathobiology](#) area of emphasis is administered by the Graduate Faculty and Ancillary/Adjunct Graduate Faculty in the Department of Diagnostic Medicine/Pathobiology. The primary goal of graduate study in the Pathobiology area of emphasis is to prepare students for careers in teaching, research, or

Checklist-MS

Timeline	Activity	Task Completed
YEAR 1: 1st semester	<ul style="list-style-type: none"> • Review Graduate Handbook: http://www.k-state.edu/grad/graduate-handbook/chapter2.html • Review Department Graduate Program Information: http://www.vet.k-state.edu/education/dmp/ • Meet with your major professor to develop a Program of Study and decide on a thesis project/report/non-thesis and non-report option. 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2nd semester:	<ul style="list-style-type: none"> • Select supervisory committee (minimum of three members). All members must be Graduate faculty: https://catalog.k-state.edu/content.php?catoid=43&navoid=7752 • Prepare, in consultation with your major professor, a tentative Program of Study: http://www.k-state.edu/grad/academics/forms/ • Identify research compliance requirements, if applicable, for notation on the Program of Study: https://www.k-state.edu/comply/. • Schedule a supervisory committee meeting to seek approval of the Program of Study and present your assigned thesis project or report, if applicable. • Submit the Program of Study that has been approved by your supervisory committee to the Graduate School for review and final approval. • Fill out the Annual Progress Report and Self-Assessment and submit to Barb Turner, Graduate Program Assistant. • Meet with the major professor to discuss progress and evaluation reports and sign the Graduate Student-Mentor form. 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Program of Study: MS

K-State home » Graduate School

Graduate School



WELCOME TO THE GRADUATE SCHOOL

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<https://www.k-state.edu/grad/academics/forms/index.html>

Graduate School

Forms Dashboard

- Program of Study
- Program Change
- Committee Change
- Request for Preliminary Examination Ballot
- Approval to Schedule Final Examination
- Request Permission for Proxy for Final Examination
- Request to Retake a Graduate Course
- Graduate Certificate Completion
- Commencement Participation (Master's Only)

Graduate School

Kansas State University
113-119 Eisenhower Hall
1013 Mid-Campus Dr.
Manhattan, KS 66506

785-532-6191
800-651-1816 (toll free)
785-532-2983 (fax)
grad@k-state.edu

Graduate School Forms

Start a New Form

Program of Study

Start

Program Change

Start

Committee Change

Start

Request for Preliminary Examination Ballot

Start

Approval to Schedule Final Examination

Start

Request Permission for Proxy for Final Examination

Start

Request to Retake a Graduate Course

Start

Graduate Certificate Completion

Start

Commencement Participation (Master's Only)

Start

<https://gradforms.ksucloud.net/>

Program of Study

Total KSU credits 18

Transfer Credit(s) - Indicate where/when transfer courses and/or degree work was/will be completed. Official transcript required.

TRANSFER WORK	DVM	Kansas State University	12	2012

Total transfer credits 12

Program of Study

Total KSU credits 18

Transfer Credit(s) - Indicate where/when transfer courses and/or degree work was/will be completed. Official transcript required.

TRANSFER WORK

DMP812	Veterinary Bacteriology and Mycology	4	Fall 2016
DMP 702	Veterinary Epidemiology	2	Spring 2017
DMP 705	Principles of Immunology	3	Spring 2017
DMP 822	Veterinary Virology	3	Spring 2017

Total transfer credits 12

Checklist-MS

YEAR 2 3 rd semester	<ul style="list-style-type: none"> • Submit Program/Committee Change Form, if any changes have been made to courses and/or committee: http://www.k-state.edu/grad/academics/forms/. • Schedule a supervisory committee meeting to present research progress. 	<input type="checkbox"/> <input type="checkbox"/>
YEAR 2 4 th or graduation semester	<ul style="list-style-type: none"> • Schedule a supervisory committee to present your thesis project (or report), if applicable, and seek approval to schedule the final exam/thesis). If the option is coursework only, determine the format of the final oral exam. • Fill out the Annual Progress Report and Self-Assessment and submit to Barb Turner, Graduate Program Assistant. • Meet with the major professor to discuss progress and evaluation reports and sign the Graduate Student-Mentor form. • Provide supervisory committee a copy of thesis/report that has been approved for distribution by your major professor. The distribution should be done a minimum of 10 working days prior to scheduled defense. • Submit “Approval to Schedule Final Examination” form a minimum of 10 working days prior to the final examination date to the Graduate School: http://www.k-state.edu/grad/academics/forms/2017forms/m-asfe.pdf • Complete Graduation Application in KSIS 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Checklist-MS

- Complete online commencement registration provided by the Graduate School, IF participating in commencement. The Graduate School will email you the online commencement link.
- Submit final examination ballot to the Graduate School.
- Revise thesis/report to meet major professor and supervisory committee expectations.
- Submit ETDR ballot to the Graduate School.
- Prepare final copy of ETDR in PDF format and submit to KREx.
- Complete online CVM Graduate Program Exit Survey: [CVM Grad Student Exit Survey](#)
- Complete Graduate School online surveys (exit survey, ETDR survey) and K-State Alumni Association information: <https://www.k-state.edu/grad/academics/forms/exsurvey.html>.
- Clear all financial obligations with university for transcript and/or diploma release.
- Update KSIS degree/diploma mailing address to assure deliver of diploma.
- Request the number of transcripts with degree posted from the Registrar's Office by deadline to avoid having to pay for transcripts later.

For Additional Information Contact:

T. G. Nagaraja
Director of VBS Graduate
Program
Coles Hall 305
tnagaraj@vet.k-state.edu
532-1214

Barb Turner
VBS Graduate Program
Assistant
Coles Hall 305
btturner3@vet.k-state.edu
532-4500

Graduate School Contact
Angie Pfizenmaier
Lead Degree Analyst for the
CVM
akt@k-state.edu
532-6191

PhD Checklist

Timeline	Activity	
YEAR 1: 1st semester	<ul style="list-style-type: none"> • Review Graduate Handbook: http://www.k-state.edu/grad/graduate-handbook/chapter3.html • Review Department Graduate Program Information: http://www.vet.k-state.edu/education/dmp/ • Meet with your major professor to develop a Program of Study and a research project to meet degree requirements. 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2nd semester:	<ul style="list-style-type: none"> • Select supervisory committee (minimum of four members; One must be from a different department). All members must be Graduate faculty: https://catalog.k-state.edu/content.php?catoid=43&navoid=7675 • Prepare, in consultation with your major professor, a tentative Program of Study: http://www.k-state.edu/grad/academics/forms/ • Identify research compliance requirements for notation on Program of Study: https://www.k-state.edu/comply/. • Schedule a supervisory committee meeting to seek approval of the Program of Study and present your dissertation project. • Submit the Program of Study approved by your supervisory committee to the Graduate School for review and final approval. • Fill out the Annual Progress Report and Self-Assessment and submit to Barb Turner, Graduate Program Assistant. • Meet with the major professor to discuss progress and evaluation reports and sign the Graduate Student-Mentor form. 	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Graduate School

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Chapter 3: The Doctoral Degree

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A. Admission and General Requirements

To gain admission to a doctoral program, the student must be approved for admission both by the graduate faculty of the department or interdepartmental program and by the Graduate School.

A Ph.D. is a research-based degree and is awarded to candidates who have demonstrated unique ability as scholars and researchers as well as proficiency in communication. The degree also certifies that the candidate

PhD Checklist

Timeline	Activity
YEAR 1: 1st semester	<ul style="list-style-type: none"> • Review Graduate Handbook: http://www.k-state.edu/grad/graduate-handbook/chapter3.html • Review Department Graduate Program Information: http://www.vet.k-state.edu/education/dmp/ • Meet with your major professor to develop a Program of Study and a research project to meet degree requirements.
2nd semester:	<ul style="list-style-type: none"> • Select supervisory committee (minimum of four members; One must be from a different department). All members must be Graduate faculty: https://catalog.k-state.edu/content.php?catoid=45&navoid=8265 • Prepare, in consultation with your major professor, a tentative Program of Study: http://www.k-state.edu/grad/academics/forms/ • Identify research compliance requirements for notation on Program of Study: https://www.k-state.edu/comply/. • Schedule a supervisory committee meeting to seek approval of the Program of Study and present your dissertation project. • Submit the Program of Study approved by your supervisory committee to the Graduate School for review and final approval. • Fill out the Annual Progress Report and Self-Assessment and submit to Barb Turner, Graduate Program Assistant. • Meet with the major professor to discuss progress and evaluation reports and sign the Graduate Student-Mentor form.
YEAR 2: 4th semester	<ul style="list-style-type: none"> • Submit Program/Committee Change Form, if any changes have been made to courses and/or committee: http://www.k-state.edu/grad/academics/forms/. • Schedule a supervisory committee meeting to present dissertation research progress. • Fill out the Annual Progress Report and Self-Assessment and submit to Barb Turner, Graduate Program Assistant. • Meet with the major professor to discuss progress and evaluation reports and sign the Graduate Student-Mentor form.

PhD Checklist

YEAR 3:
5th semester

- **Schedule a supervisory committee to discuss plans for the preliminary examination.** Decide on the format of the examination (traditional or grant) and the date for the oral examination. Submit to the Graduate School the ‘form to request preliminary examination ballot’’: <http://www.k-state.edu/grad/academics/forms/>., at least one month in advance.
- After successful completion of the preliminary examination, the signed ballot should be submitted to the Graduate School by your major professor.
- Preliminary examination must be completed at least 7 months before the final defense examination.
- After successful completion of the preliminary examination and notification of your assigned outside chair (appointment made by Graduate School) **make an appointment with your outside chair** to introduce yourself and to provide a brief report on you research and tentative plans for degree completion.

YEAR 3:

- Schedule a supervisory committee to present your research. **Seek approval of the committee to schedule the final oral defense.**

Preliminary Examination Format

- **Traditional**
 - **Written examination from each committee member**
- **Grant**
 - **Writing a grant proposal (USDA/NIH guidelines)**
 - **Student should develop three pre-proposals and submit to the committee**
 - **Committee will pick one and will allow 4 to 6 weeks to write the proposal.**
- **Oral examination**

Outside Chairperson

- **Appointed by the Dean of the Graduate School after successful completion of the Prelim Exam.**
- **Responsible for conducting the final examination and submitting the final ballot.**
- **As a member of the examining committee, the chairperson also has the right and the responsibility to evaluate the candidate's performance and to cast a vote.**
- **You should meet with the chairperson, brief him about your research and discuss time table for graduation.**
- **Final examination should be scheduled 7 months after the prelim.**

Graduate Program Evaluations

Student Learning Outcomes: PhD

- *Abilities to formulate and design a hypothesis-driven research project(s), independently carry out the research methodology, critically analyze the data, and disseminate the research findings in the form of presentations at scientific meetings and peer-reviewed publications.*
- *Professional and technical expertise in their chosen areas of study or disciplines.*
- *Abilities to apply knowledge through critical thinking, to interpret or analyze and integrate information, to respond and adapt to changing situations, to make decisions, to solve problems, and to evaluate actions.*
- *Effective oral and written communication skills.*

Annual Progress Report by Students

Annual Progress
Assessment of
Students by Major
Professor

Self Assessment

Meeting with the Major Professor

Preliminary Examination

Final Examination

Assessment

Travel Awards

The Office of the Associate Dean for Research

- ❖ **Funding for limited number of travel awards.**
- ❖ **Eligibility limited to graduate students enrolled in a KSU CVM graduate program.**
- ❖ **Preference given to students who have submitted or will submit an abstract for presentation.**
- ❖ **Awarded twice a year:**
 - **November 15: travel occurring between Jan. 1 & June 30**
 - **April 30: travel occurring between July 1 & Dec. 31**

<http://www.vet.k-state.edu/education/graduate/>

Scholarships

The Office of the Associate Dean for Research

- ❖ Eligibility limited to graduate students enrolled in KSU CVM graduate programs.
- ❖ Funding awarded according to the specific requirements of each scholarship.
 - Over \$17,000 awarded in 2018
 - Over \$12,000 awarded in 2019
- ❖ Awarded once a year:
 - November 15 application deadline.

<http://www.vet.k-state.edu/education/graduate/>