

Graduate Programs in the CVM

Graduate Programs

- **MS in Veterinary Biomedical Sciences (TG Nagaraja; Barb Turner)**
 - **Olathe campus (Dr. Paige Adams)**
 - **One-year accelerated MS program (Dr. Matt Basel)**
- **Master of Public Health (Dr. Ellyn Mulcahy)**
- **PhD in Anatomy and Physiology (Dr. Peking Fong)**
- **PhD in Pathobiology (TG Nagaraja; Barb Turner)**

Current Graduate Students: MS

- **Total: 110**
- **MS: 81 (6 Dual Degree)**
 - **MS in Physiology: 6**
 - **MS in Pathobiology: 54**
 - **MS Olathe Campus: 36**
 - **MS in Clinical Sci: 21 (11 Residents)**
- **One-year MS: 29**

Current Graduate Students

- **PhD Students: 44**
 - **PhD in Pathobiology: 35**
 - **Dual DVM/PhD: 7**
 - **6 in CS**
 - **PhD in Physiology: 9**
 - **Dual DVM/PhD: 1**

Graduate Program Requirements

Graduate Handbook

Kansas State University

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Graduate School



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GRADUATE STUDENT SUCCESS

Welcome to K-State! The Graduate School is here to help you thrive academically, professionally, and personally.

Graduate Handbook

Mentoring and individual development plans

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Present your research

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Graduate Handbook

Chapter 1: Admissions, Enrollment and Progress

Chapter 2: The Master's and Education Specialist Degrees

Chapter 3: The Doctoral Degree

Chapter 4: Graduate Certificate Programs

Chapter 5: The Graduate Faculty

Chapter 6: Graduate Council Constitution, By-Laws, Procedures

Appendix A: Graduate Students Rights and Grievance Procedures

2024-2025 Graduate Handbook Introduction

The Graduate Handbook was developed by the Graduate Faculty through the recommendations and actions of the Graduate Council. The policies and procedures outlined are designed to ensure high standards in graduate education at Kansas State University, while providing for flexibility in policy implementation. The Graduate Council expects each graduate program to build on this foundation to achieve their programmatic vision of excellence.

The Graduate Handbook is published online and in PDF format every summer with changes approved by the Graduate Council over the prior academic year. Graduate students should become familiar with the policies and degree requirements in the Graduate Handbook.

Admissions

- **Admission requirement: Should identify the major professor at the time of application**
- **Exceptions: Residents who apply for admission into the MS program**
- **Approval Process:**
 - Barb Turner
 - Major professor
 - Graduate Committee Members (Kate KuKanich, Raghavendra Amachawadi, Maria Jugan, Bob Larson, Phillip Lancaster).
 - Dr. Beth Davis
 - Program Director
 - Graduate School Dean

Admissions

Reviewing applications in CollegeNET and Slate

CollegeNET

Review applications for Fall 2024 or Spring 2025 in CollegeNET.

For Administrators, we recommend using the [legacy interface](#). For all other users, we recommend the [updated interface](#).

Use the button below to access resources and user guides in Grad Resources (KSU eid login required).

Slate

Review applications for Summer 2025 or beyond in [Slate](#).

Learn who has [access to Slate and how to get access](#).

Use the button below to access resources and user guides in Grad Resources (KSU eid login required).

FERPA Training
(Family Education Rights and Privacy Act)

CVM Graduate Program

Programs

One Year Master's in Biomedical Science Degree Program

Master's in Veterinary Biomedical Sciences Program

Master of Public Health

PhD in Anatomy and Physiology

PhD in Pathobiology

Agricultural Biosecurity Research Graduate Certificate

Concurrent DVM/Master's and DVM/PhD Programs

Public Health Graduate Certificate

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Veterinary Biomedical Sciences Master's Degree Program

Program Description

The Veterinary Biomedical Sciences (VBS) MS program in the College of Veterinary Medicine at Kansas State University is designed to train graduate students through excellence in teaching and innovative basic, applied, and clinical research that improves animal and human health. The VBS also prepares DVM graduate students to meet the demands of college have established programmatic requirements for supervision and completion of the degree and provide both the course instruction and the research training to complete the MS degree. The program offers opportunities and encourages DVM students to concurrently work on a dual degree program (DVM/MS).

Areas of Emphasis

Three Areas of Emphasis have been established within the VBS program: Anatomy and Physiology, Clinical Sciences, and Pathobiology.

Credit Requirements

A minimum of 30 hours of credit is required for completion of the VBS MS Degree.

Program Requirements: MS

- **Requires 30 credits**
- **DVM or Dual DVM/MS: 12 credits from the DVM curriculum can be applied to their MS program of study**
- **DVM students who do not have a BS degree, MS degree will be awarded after or concurrently with the DVM degree**

Program Requirements: MS

- **Thesis option: 6 to 12 credit hours of Research + 18 to 24 hours of courses**
 - **CS899. MS Research**
- **Report option: 2 credits of Report +28 credits of courses**
 - **CS898. MS report**
- **Course work option: 30 credits of courses**

Supervisory Committee and Program of Study: MS

- **Should be done in the second semester
or**
- **Upon the completion of 9 credits of
course work**
- **Committee members:**
 - **Major professor plus two additional
members**
 - **Members from any department/program,
including adjunct faculty**

Graduate Faculty Memberships

- **Regular membership with certification**
 - **Should have a terminal degree (PhD or Board Certification)**
 - **Serve as the major professor of PhD students**
- **Regular membership:**
 - **Can serve as a major professor for MS students**
 - **Can serve as a co-major professor for PhD students**

Graduate Faculty Memberships

- **Associate Membership:**
 - **Can serve as a member of the MS/PhD students' supervisory committee**
 - **Can teach a graduate course**
 - **Cannot serve as a major professor, but can be a co-major professor**
 - **Needs to be renewed every 5 years**

Graduate Faculty Memberships

- **Clinical Graduate Faculty Membership:**
 - **Faculty with clinical or diagnostic services plus teaching/research**
 - **Teach graduate courses, serve on supervisory committee, and serve as major professor**

Graduate Faculty Memberships

- **Special Graduate Faculty Membership**
 - **Faculty from other institutions/Industry**
 - **Dean of Graduate School can make a one-time appointment**
 - **Requires recommendation with evidence of the candidate's research activity (CV) from the Director of the Graduate Program/Head of the Department**

Academic Departments

[Anatomy and Physiology](#)

Clinical Sciences

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Faculty and Staff

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Graduate Faculty

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Graduate Faculty Clinical Sciences

Department Head:

Elizabeth Davis

Program Director:

T.G. Nagaraja

Graduate Faculty:

*Raghavendra Amachawadi, PhD, Kansas State University

*Michael D. Apley, D.V.M., PhD, Kansas State University

Haileigh Avellar, D.V.M., Oklahoma State University

Chieko Azuma, Ph.D., North Carolina State University

Mary Bagladi-Swanson, D.V.M., Kansas State University

Course Requirements: MS

- **Require 30 credits**
- **6 to 12 Research Credits (CS899)**
- **18 to 24 are course work credits**
- **Course numbers:**
 - **100- to 600-level: Undergraduate courses**
 - **700-level: Undergraduate/Graduate courses**
 - **800- and 900-level: Graduate courses**

Course Requirements: MS

- At least 18 hours at 700 level or above (includes Research 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.**
 - **CS 890. Problem in Clinical Science**
- **Variable credits: 1 to 3**

Core Course Requirements: MS

- **In CS:**
 - **A course in Statistics (STAT 701/703)**
 - **1 credit of a seminar course (CS859/879)**

Graduate Courses in the CVM

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Current PhD Students

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Graduate Faculty

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Graduate Student Association

veterinary careers, internships, and residencies. The graduate faculty members in the program have established programmatic requirements, guided by the policies of the Graduate School, for admission, supervision, and completion of the MS degree. The program is the only program in the State of Kansas that offers a MS degree in disciplines of Veterinary Medical Sciences related to all aspects of animal health and wellbeing. The program offers opportunities for DVM students to concurrently work on a dual degree program (DVM/MS) to gain research experience to enhance their career opportunities.

The VBS program has three subdisciplines, Anatomy and Physiology, Clinical Sciences, and Pathobiology, which are under the supervision of the graduate faculty members in the Departments of Anatomy and Physiology, Clinical Sciences, and Diagnostic Medicine and Pathobiology, respectively. The research activities of the graduate faculty are in specialized areas of Infectious Diseases, including Zoonotic Diseases and Transboundary Diseases, Bacteriology, Companion Animal Health, Comparative Biomedical Sciences, Cancer Biology

Graduate Courses in the CVM

Graduate Courses

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Anatomy and Physiology

Clinical Sciences

Diagnostic Medicine/Pathobiology

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A&P Graduate Course Descriptions/Information 

Clinical Sciences Course Descriptions/Information 

[Graduate Courses in Clinical Sciences \(pdf\)](#)

CS 820. Topics in Global Veterinary Medicine (1 credit; spring semester)

An overview of the role of veterinarians around the world. Topics include international uses and attitudes about animals, problems the world faces pertaining to livestock production, and social tensions.

Requisites: Prerequisite: 1st or 2nd year standing in the College of Veterinary Medicine, or enrolled as a graduate student with instructor permission.

CS 822. Introduction to Sustainable Beef Systems (1 credit; fall semester)

This course provides the fundamentals of assessing sustainability in beef production systems through evaluation of aspects of sustainability pillars, people, planet and profit, in each sector of the beef value chain. The course focuses on principles of sustainable food systems, beef cattle production practices, systems thinking, and impacts of food choices.

Program of Study: Etrieve

Kansas State University

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Graduate School



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Overview

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Graduate School forms

Student forms in Etrieve

Most Graduate School student forms can be submitted electronically in [Softdocs Etrieve](#). To access forms housed in Etrieve, you will be prompted to login with your K-State eid and password. Any Etrieve form you access may be accessed again when you later return to the forms.

Program of Study



Program and Committee Change



Etrieve

The screenshot displays the Etrieve system interface. On the left is a navigation sidebar with a 'Flow' section containing 'Inbox' (with a red notification badge), 'Activity', and 'Forms' (with sub-items 'Forms' and 'Drafts'). The main content area is titled 'Program of Study-Taylor Knudson-2...' and includes a 'Search Package' bar. Below this, a 'Package Items' list shows a checked item 'Program of Study'. The right-hand form, titled 'KANSAS STATE UNIVERSITY Graduate School Program of Study', contains fields for 'Date Submitted' (08/31/2023) and 'Form ID' (2023392844). A paragraph of instructions follows, stating that full-time students must file a program before the end of the second semester, and part-time students must do so upon completion of 9 credit hours. The 'Student Information' section includes fields for 'First & Last Name *', 'Email Address *', 'Student eID *', and 'Student WID *'.

etrieve | CENTRAL

Flow

- Inbox
- Activity
- Forms
 - Forms
 - Drafts

← Program of Study-Taylor Knudson-2... ×

Search Package

Package Items

- ✓ Program of Study

KANSAS STATE UNIVERSITY Graduate School
Program of Study

Date Submitted 08/31/2023 **Form ID** 2023392844

A full-time student must file a program before the end of the second semester of graduate study, and part-time students must do so upon completion of 9 credit hours. If courses have already been taken, department codes, course numbers, course names, credits earned, and the semesters taken should be listed on the program of study as they appear on the transcript(s). Research credit hours for master's and doctoral students should be listed on one line with the total sum of credits. Do not include course work earned more than six years prior to the semester this program is submitted.

Student Information

First & Last Name * Email Address *

Student eID * Student WID *

eid@ksu.edu or eid@k-state.edu

NOT eid@vet.ksu.edu

Etrieve

Program Advisor

This section is optional. It is for use by students in degree programs with program advisors or coordinators who review forms prior to the supervisory committee. If you have a program advisor/coordinator, please list the name, K-State email address (eID@ksu.edu) and department of your program advisor/coordinator.

First & Last Name

Kate Drew/CS

Email Address

krdrew@ksu.edu

Department

Comments

Etrieve

Program Advisor

This section is optional. It is for use by students in degree programs with program advisors or coordinators who review forms prior to the supervisory committee. If you have a program advisor/coordinator, please list the name, K-State email address (eID@ksu.edu) and department of your program advisor/coordinator.

First & Last Name

Barb Turner/AP and DMP

Email Address

bturner3@ksu.edu

Department


Comments

Etrieve

First & Last Name *

Email Address *

Role *

Department *

Graduate Program Director

Please list name, K-State email (eID@ksu.edu) and department of your graduate program director.

First & Last Name *

Email Address *

Department *

Etrieve

Comments

External Committee Member Signature

External Committee Member 1 : Please Type Your Name

Michael Kleinhenz

External Member 1 : Response

Approved



Graduate School


Phone: (785) 532-6191

grad@ksu.edu



Approve


Decline


History


Attachments


Locked


Download


Print

8:52 AM

Etrieve

First & Last Name

Email Address

Department

History

CLOSE

Package History

Audit History

William Johnson

07-13-2023, 6:42:43 pm

Approved

Jeba Rose Jennifer Je...

07-13-2023, 6:43:26 pm

Received

Jeba Rose Jennifer Je...

07-14-2023, 6:43:48 am

Approved

Comment

Add Comment

Save Comment

History

Attachments

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School

532-6191

su.edu

Etrieve

First & Last Name

Email Address

Department

History

CLOSE

Package History

Audit History

Angela Pfizenmaier

06-23-2023, 9:19:38 am

Received

Angela Pfizenmaier

06-27-2023, 8:51:07 am

Approved

Workflow Ended

06-27-2023, 8:51:40 am

Comment

Add Comment

Save Comment

History

Attachments

Download

Print

School

532-6191

su.edu

Checklist: MS

Timeline	Activity	Task Completed
YEAR 1: 1 st semester	<ul style="list-style-type: none"> Review the Graduate Handbook. Review the Department Graduate Program Information. Meet with your major professor to develop an overall plan for the degree and to decide on a thesis /report/non-thesis and non-report option. Thesis/Report/Course Work option: Meet with your major professor to discuss and decide on a research project/report/culminating experience. 	
YEAR 1: 2 nd semester:	<ul style="list-style-type: none"> Select supervisory committee in consultation with your major professor. A minimum of three members is required, including the major professor. The other two can be from any department and all must be members of Graduate Faculty. DMP Graduate Faculty, A&P Graduate Faculty, CS Graduate Faculty Prepare, in consultation with your major professor, a tentative program of study. Click Here to see the list graduate courses offered in the CVM. Click Here to see an example of a completed Program of Study. Schedule a supervisory committee meeting to present and seek approval of the Program of Study and present your assigned thesis project or report, if applicable. In the program of study in Etrieve, add Barb Turner (bturner3@k-state.edu) as Program Advisor for students in DMP and A&P, and Kate Drew (krdrew@k-state.edu) for students in CS. Complete and submit the Program of Study electronically. Please inform your committee members to expect an email from Graduate School to access and approve. For major professors and committee members, you must use KSU e-mail (eID@ksu.edu), not eID@vet.ksu.edu. 	
YEAR 2 3 rd semester	<ul style="list-style-type: none"> 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/student learning outcomes and sign the Graduate Student-Major Professor form. Submit electronically, Program and Committee Change Form to the Graduate School, if any changes have been made to courses and/or committee. Schedule a supervisory committee meeting to present research progress. 	

Checklist: MS

<p>YEAR 2 4th or graduation semester</p>	<ul style="list-style-type: none"> • Must be enrolled in at least 1 credit hour in the semester of graduation. Graduation and Commencement Checklists. • 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 non-thesis/non-report (coursework only), determine the format of the final oral exam. • Submit Approval to Schedule Final Examination Form to the Graduate School. • Prepare thesis/report title page and abstract, in consultation with your major professor, and submit to the Graduate School at the earliest possible time (at least two weeks before the final examination). • Review requirements for Formatting your ETDR (Electronic Thesis, Dissertations, and Reports). • Provide supervisory committee a copy of the thesis/report that has been approved by your major professor for distribution. The distribution should be done a minimum of 10 working days prior to scheduled defense. • Complete Graduation Application in KSIS and update degree/diploma mailing address. • Complete online commencement registration provided by the Graduate School, if participating in commencement. • The final examination ballot will be submitted electronically by the supervisory committee. • Revise thesis/report to meet major professor and supervisory committee expectations. • The ETDR ballot will be submitted electronically by the major professor to the Graduate School. • Prepare final copy of ETDR in PDF format and submit to K-REx. • Complete CVM Grad Student Exit Survey and Final Progress Report. Links for both will be emailed to you after completion of your defense. • Complete Graduate School online surveys and K-State Alumni Association information. • Clear all financial obligations with university for transcript and/or diploma release. • Request the number of transcripts with degree posted from the Registrar's Office by deadline to avoid having to pay for transcripts later. 	
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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 302
bturner3@vet.k-state.edu
532-4500

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

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.*

Student Evaluations

- **Annual Progress Report and Self-Assessment by the Student**
- **Evaluation of Progress done jointly by the student and mentor (once a year)**
- **Evaluation by the supervisory committee after the final defense**
- **Exit survey done anonymously**

Travel Awards

- **The Office of the Associate Dean for Research**
 - **Funding up to \$12,500 twice a year (Fall and Spring).**
November 15 and April 30 Application Deadlines
 - **Eligibility limited to graduate students enrolled in the CVM Graduate Program.**
 - **Preference given to students who have submitted or will submit an abstract for presentation.**

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

Scholarships

- ❖ **Provide financial support: tuition fee, research supplies, etc.**
- ❖ **Eligibility limited to graduate students enrolled in KSU CVM graduate programs.**
- ❖ **Funding awarded according to the specific requirements of each scholarship.**
- ❖ **Awarded once a year:**
 - **December 1 application deadline.**

<https://www.vet.k-state.edu/academics/graduate-programs/scholarships/>

Program Requirements: PhD

- **90 credits after BS.**
- **60 credits after MS.**
- **60 credits after DVM or a dual DVM/PhD student.**