

COLLEGE VETERINARY MEDICINE

College Administration

Richard Prather, DVM—Dean

Jennifer Rudd, DVM, PhD, DACVM—Interim Associate Dean Academic and Student Affairs

Jefferson Frisbee, PhD, FAHA, FAPS—Interim Associate Dean for Research and Graduate Education

Martin Furr, DVM, PhD, MA Ed, DACVM—Assistant Dean for Professional Programs

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College of Veterinary Medicine

The College of Veterinary Medicine (CVM) is the premier provider of animal care in the state of Oklahoma and for the region. The CVM provides quality educational opportunities to prepare our graduates for varied careers within the veterinary profession. The veterinary medical profession is rewarding, exciting, and one that touches the environment as well as the lives of humans and animals alike. The career options available to graduates with a Doctor of Veterinary Medicine (DVM) degree are as varied as the people who make veterinary medicine their life-long commitment. The College of Veterinary Medicine at Oklahoma State University offers a program designed to prepare new graduates for a variety of biomedical careers including private practice, post-DVM clinical training, research, industry, military, and government.

Mission: Innovation in animal and human health.

Vision: To be innovative world leaders in healthcare, research, and professional education.

Core Values:

- **Communication:** Understanding the importance of good communication for the proper functioning of the team and advancing our common goals.
- **Integrity:** We will demonstrate at all times, and expect of our colleagues, the highest standards of personal integrity.
- **Accountability:** We will be accountable for our own actions, work, and words
- **Teamwork:** Understanding that a team is stronger than the sum of its parts, and that we perform better as a team.
- **Leadership:** Recognizing that we can all be leaders.

Accreditation

The College is fully accredited by the Council on Education of the American Veterinary Medical Association. Accreditation is based on an assessment of 11 essential factors: the college's organization, its finances, facilities and equipment, clinical resources, library and learning resources, enrollment, admissions, faculty, curriculum, continuing and post-graduate education, and research.

High School Preparation

Preparation for a career in veterinary medicine includes understanding the profession. Volunteering or working with a veterinarian is essential. Students should develop emotional maturity and become aware of how medical decisions include patient, client, and financial issues.

Professionalism and ethics are fundamental for veterinarians.

Although the OSU DVM Program does not use an applicant's high school information to determine eligibility, K-12 students are strongly encouraged to take advanced placement math and science classes to prepare for more difficult college level coursework.

Admission and Application Requirements

Earning a DVM degree requires dedication and hard work, but the rewards are returned for a lifetime. In general, students must complete three to four years of pre-veterinary undergraduate coursework followed by four years of a professional veterinary medical program.

Students can select any accredited college/university to complete their pre-veterinary coursework. Choosing an undergraduate major related to the student's interest in science and animals is advised. The College requires all applicants to be within 1 year of completing specific required courses to be eligible for application. Other factors can contribute to an applicant's eligibility to the Oklahoma State University DVM Program, so students are encouraged to review all eligibility requirements (<https://vetmed.okstate.edu/programs-and-admissions/dvm-requirements>).

Early Admission Program

Students pursuing careers in the health sciences often make their career decision prior to undergraduate enrollment. The goal of the Early Admission Program (<https://vetmed.okstate.edu/programs-and-admissions/early-admission>) is to aid pre-veterinary students with strong academic ability and guide them in their pursuit of a veterinary medical career. The Early Admission Program strives to provide direction, mentorship, and provisional admission for students with superior academic achievement and interpersonal skills that are well-suited to the missions of the veterinary profession. The application opens August 1st to freshman enrolled in the fall in an Oklahoma Institution which confers bachelor's degrees. Eligible applicants must have recently graduated high school by the end of the spring semester prior to August 1st.

Scholarships

The College has a variety of scholarships available to currently enrolled veterinary medical students. The scholarship application portal opens at the end of the fall semester.

Selection Factors

The Admissions Committee seeks to admit students with excellent records of academic achievement, in addition to backgrounds that help predict potential success in a variety of veterinary medical careers. The College of Veterinary Medicine typically admits 106 students annually, of which 69 are Oklahoma residents and 37 are out-of-state.

In selecting applicants for admission, the Admissions Committee will consider both quantitative (grade point averages) and qualitative factors (veterinary experience, background, personal statement, and letters of recommendation).

The CVM requires a minimum of three letters of recommendation, one of which must come from a veterinarian. Strong applications will include

letters of recommendation from individuals who have had recent working or mentorship experiences with the applicant.

An out-of-state applicant's qualitative score is based on their application materials evaluated by members of the Admissions Committee. An in-state applicant's qualitative score is also based on their application materials in addition to a personal interview conducted by members of the Admissions Committee. Interviews are administered to in-state applicants by invitation only and not automatically granted. Personal interviews are not available for out-of-state applicants.

College Curriculum

The Oklahoma State University College of Veterinary Medicine offers a rigorous, hands-on curriculum (<https://catalog.okstate.edu/college-veterinary-medicine/degree-programs/veterinary-medicine-dvm/>) designed to prepare students for the wide-ranging and evolving demands of the veterinary profession. Spanning four years, the program integrates foundational biomedical sciences with clinical training, emphasizing all common domestic species, especially companion, equine, and food animal medicine. From day one, students are immersed in real-world learning experiences through state-of-the-art facilities, clinical skills labs, and extensive exposure to primary care, specialty services, and rural veterinary practice. The curriculum also fosters critical thinking, ethical decision-making, and professional development to equip graduates for careers in private practice, public health, research, industry, and beyond. Through its comprehensive approach and commitment to excellence, the college ensures that graduates are not only clinically proficient but also compassionate, collaborative, and ready to serve both animals and society.

Graduate Program

Comparative Biomedical Sciences

Jefferson Frisbee, PhD, FAHA, FAPS—Interim Associate Dean for Research and Graduate Education

The comparative biomedical sciences (CBSC) graduate program is a multidisciplinary program intended to provide students with a broad base of research areas to address individual student interests. The program is administered within the College of Veterinary Medicine but may involve faculty from other colleges. Programs of research and study leading to the degrees of Master of Science and Doctor of Philosophy are available within the broad areas of focus: infectious diseases, pathobiology, and physiological sciences. The program is designed to prepare individuals for careers in teaching and research, and specialization is possible within each area dependent upon student and faculty interests and available funding.

Current areas of research focus include molecular, cell and developmental biology, clinical sciences (including laser applications and oncology); infectious and parasitic diseases (including vector-borne diseases, bacterial and viral diseases in wild and domestic animals); pathobiology; and toxicology. Faculty and their specific areas of interest are available through the graduate coordinator (cbssc@okstate.edu (vbssc@okstate.edu)) or online at <https://vetmed.okstate.edu/students/comparative-biomedical-sciences/index.html> (<https://vetmed.okstate.edu/students/comparative-biomedical-sciences/>).

Prerequisites

Candidates for admission must possess a bachelor's degree or equivalent, with a background in biological or physical sciences. Although there are no absolute performance level requirements, applicants with GPAs of 3.0 (out of 4.0) or greater, will receive the strongest consideration.

The Master of Science Degree

The MS may be earned with 30 credit hours beyond a bachelor's degree or 21 hours beyond the DVM degree, including not more than six credit hours for the thesis. The plan of study is designed to meet the student's needs and interests and typically includes two credits of seminar, one course in statistics, and courses in molecular or cell biology and pathophysiology. The student must also pass a final oral examination covering the thesis and related course work.

The Doctor of Philosophy Degree

The PhD requires a minimum of 60 credit hours beyond the bachelor's degree or DVM degree, including up to 45 credit hours for research and dissertation. The plan of study is designed to meet the student's needs and interests and typically includes courses in cell and molecular biology, pathophysiology, statistics, and seminar. Written and oral qualifying examinations are required. Students must prepare a research proposal and complete and defend a dissertation based on original research.

Application Procedure

Applications are made to the Graduate College (<http://gradcollege.okstate.edu/apply>) and are accepted at any time; however, all documents should be received before March 15th for admission to the fall semester and August 15th for admission to the spring semester. Applicants are required to submit transcripts of all college-level work. International applicants are required to take an English proficiency exam, unless a student completed a baccalaureate or graduate degree from an accredited institution of higher learning at which English is the primary language of instruction, located in a country in which English is a recognized primary language. For students seeking graduate teaching assistantships, a score of 22 or greater on the speaking part of the internet-based TOEFL (iBT) or 7.0 on the speaking portion of the IELTS is required. In addition, the applicant will submit a statement of purpose stating their preparation for graduate study as well as how earning a graduate degree will further their educational and career goals and will have three persons knowledgeable of their preparation for graduate study write and submit letters of reference.

Information about faculty research interests is available upon request to the graduate coordinator (cbssc@okstate.edu (vbssc@okstate.edu)). After acceptance to the graduate program, students select a major professor and an advisory committee and develop a plan of study consistent with the CBSC graduate program requirements and subject to the approval of the dean of the Graduate College.

Assistantships

A limited number of graduate teaching and research assistantships are available.

Internship and Residency Programs

Internships and residency programs in clinical medicine and surgery are offered through the Department of Veterinary Clinical Sciences.

Residency programs in pathology are offered through the Department of Veterinary Pathobiology.

Academic Areas

- Veterinary Clinical Sciences (p. 3418)
- Veterinary Pathobiology (p. 3420)
- Physiological Sciences (p. 3421)
- Degree Programs (p. 3422)

Graduate Programs

- Comparative Biomedical Sciences, MS (p. 3252)
- Comparative Biomedical Sciences, PhD (p. 3054)

Professional Programs

- Veterinary Medicine, DVM (p. 3423)

Veterinary Clinical Sciences

*Kelly Black, DVM, DACVPM—Hospital Director and Interim VCS Department Head

The Department of Veterinary Clinical Sciences (VCS) is one of three academic departments at the CVM. The Veterinary Clinical Sciences faculty are an integral part of the Boren Veterinary Medical Teaching Hospital. The faculty train veterinary students through didactic teaching and hands-on clinical training and provide the highest quality of care to clients and patients. In addition to training veterinary students, there are several residents and interns in various sections of the hospital who are guided by the VCS faculty.

Visit the Veterinary Medical Teaching Hospital webpage (<https://cvhs.okstate.edu/veterinary-medical-hospital/>) to learn more about the faculty and staff and the services they provide.

Internship and Residency Programs

The VCS department offers graduate professional programs (internships and residencies). Internships are one-year post-DVM clinical training programs.

Internships are designed in part to prepare DVM graduates for residencies or graduate academic programs. Currently, internships are offered in mixed animal rotating, equine internal medicine and surgery rotating, small animal emergency and critical care, small animal internal medicine, equine surgery & sports medicine, food animal medicine & surgery, shelter medicine and surgery, ophthalmology, theriogenology, and avian, exotics, and zoological medicine.

Residencies are three-year clinical programs in various disciplines designed in part to prepare for specialty board certification. Currently, residencies are offered in equine internal medicine, equine surgery, food animal medicine and surgery, ophthalmology, theriogenology, and avian, exotics, and zoological medicine.

Graduate academic programs may be available in association with residencies.

Application Procedure

Most open positions are listed in the Veterinary Internship/Residency Matching Program at www.virmp.org (<https://www.virmp.org/>) and applications are submitted through the VIRMP. Some programs may be offered outside the match.

***Board Certification in Specialty Area**

Faculty

Regents Professor and Endowed Chairs: Kenneth Bartels, DVM, MS, and Cohn Family Chair for Animal Care (emeritus); *Ana Costa, DVM, PhD, DACVIM (SAIM) and Tracy Kyle Chair; *Lyndi Gilliam, DVM, PhD, DACVIM (LAIM) and Jack and June Jacobs Chair; G. Reed Holyoak, DVM, PhD, DACT, Regent's Professor and Bullock Professor; *Michael D. Lorenz, DVM, DACVIM, and Regents Service Professor (emeritus); *Amanda Samuels, VMD, PhD, DACVIM (LAIM) and McCasland Clinical Professorship; *Michael J. Schoonover, DVM, MS, DACVS, DACVCMR and Ricks-Rapp Professorship; *Lara Sypniewski, DVM, DABVP, and Henthorne Clinical Professorship; *J.T. Walker, DVM, MS, DACVS-SA and Cohn Family Chair

Professors: *Joseph Alexander, DVM, DACVS (President, CIED) (emeritus); *Kenneth Bartels, DVM, MS (emeritus); *Melanie Boileau,

DVM, MS, DACVIM (LAIM); *Lionel J. Dawson, BVSc, MS, DACT; *Lyndi Gilliam, DVM, PhD, DACVIM (LAIM); *Margi A. Gilmour, DVM, MS, DACVO (emeritus); *G. Reed Holyoak, DVM, PhD, DACT; *John P. Hoover, DVM, MS, DACVIM, DABVP (emeritus); *Charles G. MacAllister, DVM, DACVIM (emeritus); *Mark Neer, DVM, DACVIM (emeritus); *Carlos Risco, DVM, DACT (emeritus); *Michael J. Schoonover, DVM, MS, DACVS-LA, DACVSMR; *Richard Shawley, DVM, MS, DACVA (emeritus)

Associate Professors: *Robert J. Bahr, DVM, DACVR (emeritus); *Mary H. Bowles, DVM, DACVIM (emeritus); *John Kirkpatrick, DVM, DABVP (emeritus); Carolyn T. MacAllister, DVM (emeritus); *Gregor L. Morgan, MVSc, PhD, DACT (emeritus); *Megan Williams, DVM, DACVS-LA

Assistant Professors: Gianluca Bini, DVM, MRCVS, DACVAA; Rosslyn Biggs, DVM; Giovana Catandi, DVM, PhD, DACT; Andreza Conti Patara, DVM, MS, PhD, DACVECC; Myriam Jimenez, DVM, MS, PhD; *Dale Kelley, DVM, MS, PhD, DACT; *Shari Kennedy, DVM, DACVIM-LIAM

Clinical Professors: *John Gilliam, DVM, MS, DABVP (bovine), DACVIM (LAIM); *Marjorie Gross, DVM, MS, DACVA (emeritus); *Robert Streeter, DVM, MS, DACVIM (emeritus); *Lara A. Sypniewski, DVM, DABVP

Clinical Associate Professors: *Ana Costa, DVM, PhD, DACVIM (SAIM); *Paul DeMars, DVM, DABVP; *Marco Lopes, DVM, PhD, DACVS-LA; Katrina Meinkoth, DVM (emeritus); Sarah Peakheart, DVM; *J.T. Walker, DVM, DACVS-SA; *Chase Whitfield, DVM, MS, DACVS-LA

Clinical Assistant Professors: Jason Anton, DVM; David Bailey, DVM; *Kelli Beavers, DVM, DABVP (equine), DACT; *Kelly Black, DVM, DACVPM; Katie Cantrell, DVM; Daniel Christensen, DVM; Brandy L. Close, PhD, MEd; *Emilia Terradas Crespo, LV, MS, DACVECC; Leandro Fadel, DVM, MSc; Leticia Fanucchi, DVM, PhD; Taylor Farris, DVM; Katharine Hausmann Farris, DVM; Alexis Jennings, DVM; *Dana Liska, DVM, DACVD; Marco Magliacano, DVM, MRCVS; *A.J. Manship, DVM, DACVIM (LAIM); *Emily McCool, DVM, MS, DACVO; *Julianne McCready, DVM, DVSc, DACZM; M. Blake Murray, DVM; Franciele Panato Back, MV; Marcelo Rodrigues de Oliveira, MV; Brandon M. Raczkoski, PhD; Melissa Raymond, DVM; *Amanda Samuels, VMD, PhD, DACVIM (LAIM); Isabelle Soga, DVM; *Kelsey Walker, DVM, MS, CVA, DACVIM (LAIM); Jenny Wyrick, DVM

Teaching Associate Professors: Stephanie Frisbee, PhD

Teaching Assistant Professors: *Allison Biddick, DVM, MS, DACVECC; *Nancy Henslee, DVM; Kaitlin Mielnicki, DVM

Adjunct Associate Professors: *Drew Hanzlicek, DVM, DACVIM (SAIM); *Cheryl Lopate, DVM, MS, DACT

Adjunct Assistant Professors: *Kay Backues, DVM, DACZM; Derek Burney, DVM; *Brent Hague, DVM, DACVS; Gretchen Cole, DVM

Adjunct Clinical Instructors: Kyle Abbott, DVM; Chad Baumwart, DVM; Corynn Cackler, DVM; Laura Embry, DVM; Mika Ford, DVM; Ashley French, DVM; Beverly Fritzler, DVM; Kathy Graf, DVM; *Tiffany Granone, DVM, DACVAA; Mark Higgins, DVM; David Hille, DVM; Steven Hodges, DVM; Tracei Holder, DVM; Ron Hooley, DVM; Mike Jones, DVM; Lauren Lamb, DVM; Joseph Landers, DVM; Aimee Lenz, DVM; Kevin Long, DVM; Troy McNamara, DVM; Jarrod Roach, DVM; Angie Semple DVM; Mark Shackelford, DVM; Kerry Shafer-Ray, DVM; Andrew Willis, DVM

Lecturers: David Wallace, DVM; *Elizabeth Soler, DVM, DACVO

Residents: Larissa Boruk, DVM, Equine Internal Medicine (2026-2029); Alondra Crespo-Rivera, DVM, Food Animal Internal Medicine (2026-2029); Greta Doden, DVM, Zoological Medicine (2024-2027); Amber Hampton, DVM, Theriogenology (2024-2027); Barbara da Silva Andrade, BA, Theriogenology (2025-2028); Martin Garces, DVM, Theriogenology (2025-2028); Chiara Morelli, DVM, Equine Internal Medicine (2025-2028); Santiago Rodriguez, MV, Equine Surgery (2026-2029); Sarah Winkler, DVM, Equine Surgery (2025-2028)

Interns: Cassidy Brunson, DVM, Small Animal ER; Daneeya Guthrie, DVM, Ophthalmology; Usman Khalid, DVM, Equine Medicine and Surgery; Anna Perreand, DVM, Equine Medicine and Surgery, DVM; Kristine Powell, DVM, Mixed Animal Rotating; Margaret Prichett, DVM, Zoological Medicine;

Stephanie Sila, DVM, Zoological Medicine; Jamie Smith, DVM, Mixed
Animal Rotating

***Board Certification in Specialty Area**

Veterinary Pathobiology

Theresa E. Rizzi, DVM, DACVP—Clinical Professor and Department Head

The Department of Veterinary Pathobiology conducts advanced research, education and diagnostic services in areas such as bacteriology, mycology, virology, immunology, parasitology, pathology, epidemiology and public health. The department houses the National Center for Veterinary Parasitology and is the academic home of the Director and faculty of the Oklahoma Animal Disease Diagnostic Laboratory. Faculty members participate in research funded by organizations such as the NIH, USDA, and other government agencies, and private industry, focusing on infectious diseases affecting both animals and humans. In addition to research, the department is dedicated to educating future veterinarians, veterinary specialists, and scientists while contributing to the scientific community through publications and presentations at national and international platforms.

Residency Programs

Residency Coordinators: Dr. Valerie McElliott, Anatomic Pathology, and Dr. James H. Meinkoth, Clinical Pathology

The Department of Veterinary Pathology offers residency programs in both anatomic and clinical veterinary pathology. Applicants must hold a DVM or an equivalent degree. Each residency program is three years in length, with the option for residents to enter a PhD program. These programs are intended for individuals interested in diagnostic veterinary pathology and in pursuing board certification through the American College of Veterinary Pathologists. Residency training takes place through the Veterinary Medical Teaching Hospital and the Oklahoma Animal Disease Diagnostic Laboratory.

The program emphasizes extensive diagnostic casework, primarily involving domestic animals, and includes weekly case conferences and seminars. Residents also have access to abundant archival materials that support preparation for specialty board examinations. The program typically includes three anatomic pathology residents and three clinical pathology residents. Information about open residency positions can be found on the American College of Veterinary Pathologist website: (<https://www.acvp.org/>).

Comparative Biomedical Science Graduate Program

The Comparative Biomedical Sciences Graduate Program in the Oklahoma State University College of Veterinary Medicine offers a multidisciplinary graduate education designed to support diverse student interest in animal and human health research. The program provides both MS and PhD degree options and builds on the college's strong foundation in veterinary medical training to advance animal health and biomedical research. Its mission includes developing a nationally recognized program that contributes to improvements in quality of the life worldwide. Research opportunities are available in several focus areas, including clinical sciences, infectious disease and parasitology, physiology, and stem cell biology. <https://vetmed.okstate.edu/programs-and-admissions/cbsc-graduate-program>

Faculty

Regents Professors and Endowed Chairs: Clinton J. Jones, PhD, Regents Professor and Sitlington Endowed Chair

Professors: *James H. Meinkoth, DVM, PhD, DACVP; *Akhilesh Ramachandran, BVSc & AH, PhD, DACV; *Jared Taylor, DVM, MPH, PhD, DACVIM, DACVPM; *Jeremiah Saliki, DVM, PhD, DACVM

Clinical Professor: *Theresa Rizzi, DVM, DACVP

Associate Professors: *Fernando Vicoso Bauermann, DVM, PhD, and Sitlington Endowed Chair in Veterinary Medicine; Rudragouda Channappanavar, DVM, MVSc, PhD; *Sunil More BVSc, MVSc, PhD, DACVP; Tom Oomens, PhD; *Jennifer Rudd, DVM, PhD, DACVM; Joy Scaria, PhD, Associate Professor and Sitlington Endowed Chair in Infectious Disease; *Ruth Scimeca, VMD, MSc, PhD, DACVM-P and Krull-Ewing Professorship; *Lindsay Starkey, DVM, PhD, DACVM-P

Clinical Associate Professor: *Susan E. Fielder, DVM, MS, DACVP; *Justin Greenlee, DVM, PhD, DACVP; *Valerie McElliott, DVM, PhD, DACVP; *Brianne Taylor, DVM, MS, DACVP

Assistant Professors: *Sarah Capik, DVM, PhD, DACVPM-E; *Kathryn Duncan, DVM, PhD, DACVM-P; Kelly Harrison, PhD; Mayara Maggioli, DVM, PhD; *Daniel Barrantes Murillo, DVM, MS, PhD, DACVP; Jeff Ostler, PhD

Clinical Assistant Professor: *Clare Brown, DVM, DACVP; Sushim Gupta, PhD

Assistant Research Professor: Fouad Elmayet, PhD

Residents: Hailey Furman, DVM; Estelle Lua, DVM; Cassie McDonald, DVM; Sarah Myers, DVM; Amber Petoney, DVM; Amy Webb, DVM; Erin Willis, DVM, PhD

Graduate Teaching Associates: Patil Basavaraju, BVSc; Lariane de Silva Barcelso, PhD; Blaine Bennett, MS; Rachana Bhusal, PhD; Gouray Biswas, PhD; Ryan Carson, DVM/PhD; Amal Cheemadan, PhD; Roshan Ghimire, PhD; Tanim Islam, PhD; Kaushalya Jayathilake, PhD; Paige Johnson, DVM/PhD; Neeraja Mano, PhD; Jeeviya Murugesan, BVSc, PhD; Sarah Myers, PhD/Resident; Mary Neff, DVM/PhD; Ncode Herman Okah-Nnane, PhD; Sai Mounica Pabbineedi, PhD; Ainslie Reynolds, DVM/MS; Hafez Sadeghi, PhD; Danya Sankaranarayanan, PhD; Rakshya Shrestha, PhD; Rachel Smith, PhD; Vishnu Thyil Valappil, PhD; Binta Varghese, PhD; Cody Whitley, PhD

***Board Certification in Specialty Area**

Physiological Sciences

Jefferson Frisbee, Ph.D. FAHA, FAPS—Department Head

The Department of Physiological Sciences at Oklahoma State University contributes substantially to the teaching, research and service components of the College of Veterinary Medicine.

The department currently has 18 tenure/tenure-track, one adjunct and four research track faculty members, three postdoctoral fellows and approximately 30 graduate students.

Teaching responsibilities within the department include the areas of veterinary morphology, physiology, pharmacology and toxicology, providing professional coursework leading to the DVM degree and graduate coursework leading to the Masters and Doctor of Philosophy degrees. Departmental faculty have a wide range of research interests including neurotoxicology, lung biology, enzymology of drug metabolism, exercise physiology, reproductive physiology, therapeutics, comparative aging, and cardiovascular physiology. Extramural funding in support of research from agencies including NIH, DoD, USDA, American Cancer Society and others totals over \$2 million annually.

Faculty

Professor, Department Head: Jefferson Frisbee, PhD, FAHA, FAPS

Regents Professors: Lin Liu, BS, PhD (Lundberg-Kienlen Professor of Biomedical Research)

Professors: Natarajan Aravindan, MS, MPhil, PhD, CCA; *Martin Furr, DVM, Diplomate ACVIM, PhD; *Veronique Lacombe, DVM, PhD, Diplomate ACVIM, Diplomate ECEIM; *Lara K. Maxwell, DVM, PhD; David W. Ussery, PhD

Associate Professors: Jill Akkerman, DVM, PhD; Joshua Butcher, MS, PhD; Henrique Cheng, DVM, MS, PhD; Myron Hinsdale, DVM, PhD; Sudhakar Jha, PS, MS, PhD; Madhan Subramanian, BVSc, PhD

Assistant Professors: Xufang Deng, BS, MS, PhD; Neeraj Singh, BVSc, MVSc, PhD

Teaching Associate Professor: *Deon van der Merwe, BVSc, MSc, PhD, ERT

Teaching Assistant Professor: Girish Patil, PhD

Research Associate Professor: Chaoqun Huang, MD, PhD

Research Assistant Professors: Yurong Liang, BS, PhD; Danny Maples, PhD; Kishore Vaddadi, PhD

Emeriti Faculty: Guangping Chen, MS, PhD; Nicholas L. Cross, PhD; *Michael S. Davis, DVM, MS, PhD; James W. Lish, MS, PhD; Jerry R. Malayer, PhD; Joseph P. McCann, PhD; Sandra E. Morgan, MS, DVM; Charlotte L. Ownby, MS, PhD; Carey N. Pope, PhD (Sitlington Chair in Toxicology); Larry E. Stein, PhD; Alastair G. Watson, BVSc, PhD

Post-Doctoral Fellows: Benny Borin, PhD; Ranabir Majumder, PhD; Loganayaki Periyasamy, PhD

Graduate Research Associates: Kainat Ahmed, PhD; Momtaz Bukharid, PhD; Landon Butler, PhD; Karen Chhetri, PhD; Xiang Chi, PhD; Ashwath Keshav Giri, PhD; Mozafar Hajjafarianaraki, PhD; Nazmul Haque, PhD; Afsana Parveen Jahir Hussain, PhD; Tasnim Islam, PhD; Prince Jhandai, PhD; Xueying Liang, PhD; Anna Claire McMullen, PhD; Sreenidhi Mohanvelu, PhD; Dharanya Muthiah, PhD; Paven Nagdev, PhD; Diani Nanayakkara, PhD; Sivasubramani Narayanan, PhD; Madha Oli Ramamurthy, PhD; Sabir Salim, PhD; Keerthana Santhosh, PhD; Md Samun Sarker, PhD; Komal Shoaib, MS; Yashaswi Raj Subedi, PhD; Poorvi Subramanian, PhD; Akshaya Surendran, PhD; Elizabeth Varghese, PhD; UdayKiran Venugopal, PhD; Qianru Zhang, PhD

Staff: Colin Kokenes, BS; Christopher H. Pivinski, BS; Jessica Schultz, BS, MS; Aake Vaestermark, PhD; Kerrie Williams, AS

***Board Certification in Specialty Area**

Degree Programs

Graduate Programs

- Comparative Biomedical Sciences, MS (<https://catalogadmin.okstate.edu/graduate-college/masters-degrees/comparative-biomedical-sciences-ms/>)
- Comparative Biomedical Sciences, PhD (p. 3054)

Professional Programs

- Veterinary Medicine, DVM (p. 3423)

Veterinary Medicine, DVM

Total Hours: 165

Year One

Code	Title	Hours
Degree Requirements		
<i>Fall Semester</i>		
VME 7111	Critical Thinking, Clinical Skills, & Communication I	1
VME 7121	Professional Skills I	1
VME 7136	Veterinary Physiology & Histology I	6
VME 7144	Gross & Developmental Anatomy	4
VME 7153	Veterinary Immunology	3
VME 7161	Epidemiology & Evidence-Based Medicine	1
VME 7171	Nutrition	1
Hours Subtotal		17
<i>Spring Semester</i>		
VME 7211	Critical Thinking, Clinical Skills, & Communication II	1
VME 7221	Professional Skills II	1
VME 7236	Veterinary Physiology & Histology II	6
VME 7243	Comparative Anatomy	3
VME 7253	Clinical Pathology	3
VME 7264	General Pathology	4
Hours Subtotal		18
Total Hours		35

Year Two

Code	Title	Hours
Degree Requirements		
<i>Fall Semester</i>		
VME 7312	Critical Thinking, Clinical, Skills, & Communication III	2
VME 7325	Veterinary Parasitology	5
VME 7333	Pharmacology I	3
VME 7343	Diagnostic Imaging	3
VME 7353	Veterinary Virology	3
VME 7363	Toxicology	3
Select 2 hours of electives.		2
Hours Subtotal		21
<i>Spring Semester</i>		
VME 7412	Critical Thinking, Clinical Skills, & Communication IV	2
VME 7421	Professional Skills III	1
VME 7433	Food Safety & Public Health	3
VME 7444	Veterinary Bacteriology & Mycology	4
VME 7452	Pharmacology II	2
VME 7463	Anesthesiology & Analgesia	3
VME 7472	Hemolymphatics & Oncology	2
VME 7481	Introduction to Exotic Animal Medicine	1
Select 2 hours of electives.		2

Hours Subtotal	20
Total Hours	41

Year Three

Code	Title	Hours
Degree Requirements		
<i>Fall Semester</i>		
VME 7512	Critical Thinking, Clinical Skills, & Communication V	2
VME 7522	Junior Surgery I	2
VME 7533	Musculoskeletal	3
VME 7543	Therigenology	3
VME 7552	Veterinary Endocrinology	2
VME 7564	Cardiopulmonary	4
VME 7572	Primary Care I	2
Select 2 hours of electives.		2
Hours Subtotal		20
<i>Spring Semester</i>		
VME 7612	Critical Thinking, Clinical Skills, & Communication VI	2
VME 7621	Professional Skills IV	1
VME 7631	Junior Surgery II	1
VME 7644	Alimentary	4
VME 7652	Ophthalmology	2
VME 7662	Urinary	2
VME 7672	Neurology	2
VME 7682	Primary Care II	2
VME 7692	Dermatology	2
Select 1 hour of elective.		1
Hours Subtotal		19
Total Hours		39

Year Four

CORE ROTATIONS

Code	Title	Hours
Rotations - 15 Rotations		
VCS 7002	Anesthesiology	2
VCS 7072	Diagnostics	2
VCS 7082	Equine Medicine	2
VCS 7142	Externship I	2
VCS 7152	Externship II	2
VCS 7162	Externship III	2
VCS 7172	Externship IV	2
VCS 7222	Food Animal Medicine and Surgery	2
VCS 7372	Radiology	2
VCS 7442	Surgical Fundamentals in Shelter Patients	2
VCS 7612	Small Animal General Medicine	2
VCS 7622	Small Animal General Surgery and Dentistry	2
VCS 7632	Small Animal Emergency and Critical Care	2
VCS 7662	Large Animal Emergency and Critical Care	2
VCS 7912	Grand Rounds	2

Based on clinician availability, certain courses may not be offered, and the program may substitute electives as needed.

Total Hours	30
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ELECTIVE ROTATIONS

Code	Title	Hours
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Select 10 rotations from the following:

VCS 7000	Clinical Sciences Elective
VCS 7092	Equine Medicine Elective
VCS 7062	Small Animal Primary Care Elective
VCS 7102	Equine Medicine Clerkship
VCS 7112	Equine Performance Medicine Elective
VCS 7122	Equine Surgery and Sports Medicine Elective
VCS 7182	Externship V
VCS 7192	Externship VI
VCS 7202	Field Services and Production Medicine Elective
VCS 7212	Field Services and Production Medicine Clerkship
VCS 7232	Food Animal Medicine and Surgery Elective
VCS 7242	Food Animal Medicine and Surgery Clerkship
VCS 7252	Hospital Based Theriogenology Elective
VCS 7272	Small Animal Emergency and Critical Care Elective
VCS 7292	Bovine Theriogenology Elective
VCS 7302	Equine Theriogenology Elective
VCS 7312	Large Animal Theriogenology Elective I
VCS 7322	Large Animal Theriogenology Elective II
VCS 7352	Ophthalmology Elective
VCS 7402	Small Animal Internal Medicine Elective
VCS 7452	Ultrasound Elective
VCS 7472	Zoological Medicine Elective I
VCS 7482	Zoological Medicine Elective II
VCS 7492	Applied Canine Exercise Physiology Elective
VCS 7502	Small Animal Internal Medicine Clerkship
VCS 7532	Applied Diagnostic Medicine Elective
VCS 7542	Small Animal Emergency and Critical Care Clerkship
VCS 7552	Public Health Practice for Veterinarians I
VCS 7562	Public Health Practice for Veterinarians II
VCS 7582	Externship VII
VCS 7592	Behavior Medicine Elective
VCS 7602	Dermatology Elective
VCS 7642	Small Animal General Medicine Clerkship
VCS 7652	Small Animal General Surgery and Dentistry Clerkship
VCS 7672	Dermatology Externship
VCS 7682	Equine Ambulatory Elective
VCS 7692	International Externship
VCS 7702	Neurology Elective

Or additional approved VCS Courses

Hours Subtotal	20
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Total Hours	20
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Program meets all the educational requirements for eligibility for DVM licensure in all 50 states.

For additional requirements, please refer to the College of Veterinary Medicine page (p. 3415) in the Catalog.