CENTER FOR VETERINARY HEALTH SCIENCES

College Administration
Carlos Risco—Dean
Chris Ross, DVM, PhD—Interim Senior Associate Dean
Margi Gilmour, DVM—Associate Dean for Academic Affairs
Jerry Malayer, PhD—Associate Dean for Research and Graduate Education

Campus Address and Phone
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Doctor of Veterinary Medicine Program
A primary objective of the Center for Veterinary Health Sciences is to educate veterinarians for private practice. In addition, the professional curriculum provides an excellent basic biomedical education and training in diagnosis, disease prevention, medical treatment and surgery. Graduates are qualified to pursue careers in many facets of veterinary medicine and health-related professions.

Accreditation
The College has full academic accreditation status approved by the Council on Education of the American Veterinary Medical Association. Accreditation is based on an assessment of 11 essential factors, namely, 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.

Preparatory Requirements
In preparation for the professional DVM training the student must complete both prescribed and elective collegiate courses. The minimum prescribed preparatory studies, totaling 64 semester hours of undergraduate course work, can be completed in three calendar years. Most of the entering veterinary medical students in recent years have had three to four years of preparatory training, often earning a bachelor’s degree.

Admission Requirements
Collegiate course requirements for entry into veterinary medical college may be completed at any accredited university or college that offers the required courses. Pre-veterinary curricula are available at Oklahoma State University through the Division of Agricultural Sciences and Natural Resources and through the College of Arts and Sciences. Both offer programs of study in pre-veterinary medical sciences, which provide for the award of a bachelor’s degree after successful completion of the first or second year of veterinary medical studies.

Requests for information on pre-veterinary medical study programs and applications for admission to such programs should be addressed to the dean of either the Division of Agricultural Sciences and Natural Resources or the College of Arts and Sciences.

Listed below are the minimum course prerequisites for consideration for admission to the Center for Veterinary Health Sciences:

English—nine semester hours including six hours of composition and three hours of an English elective. Course work in speech or technical writing is encouraged.

Chemistry—general inorganic chemistry including labs (9 hours); an organic chemistry series (8 semester hours) designed for pre-veterinary and pre-medical students that includes both the aliphatic and aromatic compounds or survey course with lab (5-8 hours); and 3 semester hours of biochemistry.

Physics—Eight hours of general physics.

Mathematics—three semester hours including statistics.

Biological science—16 semester hours. Courses in zoology, general biology, microbiology and genetics are required. All courses, except genetics, must include laboratory work.

Animal Nutrition—three semester hours of the basic principles of animal nutrition, including rumen digestion, absorption and metabolism of the various food nutrients and ration formulation. Courses in human nutrition are not acceptable.

Humanities and social science—six semester hours.

Business electives—although not required, courses in business are encouraged.

The information on admission requirements was current at the time of publication but is subject to change. The admission requirements are under annual review and changes may be made at any time.

Scholarships
The College has scholarships which may be available to matriculating veterinary medicine students; many are based on academic achievement.

Application Process
Admission is competitive and enrollment in veterinary medicine is restricted. Applications for admission must be submitted by September 15th, and a new class enters the College each year at the beginning of the subsequent fall semester.

Applicants who are legal residents of Oklahoma will be given first priority. In addition, a limited number of nonresidents will be selected. Questions about residency should be directed to the Office of the Registrar, Oklahoma State University. Requests for application materials should be directed to the Student Services Office, Center for Veterinary Health Sciences.

Students are admitted as candidates for the Doctor of Veterinary Medicine degree on the basis of records of academic performance in preparatory studies, GRE test, and references to determine personal characteristics and career motivation. Details concerning admissions procedures are available via the Center for Veterinary Health Sciences website www.cvhs.okstate.edu (http://www.cvhs.okstate.edu).

The veterinary curriculum extends over four calendar years. The first two academic years conform to the normal semester system of the University. The last two academic years are continuous, with the fourth starting shortly after completion of the third. The fourth year is clinical in nature and classes are primarily in the Boren Veterinary Medical Teaching
Veterinary Medical Research Scholars

Thanks to opportunities in research for veterinary students at OSU, those receiving degrees can qualify for 'veterinary medical research scholar designation' on the transcript, a valuable designation to achieve. To be considered, the student must:

a. For a minimum of two semesters or in full-time summer employment, be engaged in and contribute substantively to research or creative inquiry with a faculty mentor and/or faculty-led team. The supervising mentor may be employed at Oklahoma State University or at another university.

b. Present his or her research or creativity project at a state, regional or national conference or juried artistic venues such as art exhibitions, concerts or festivals;

c. Publish his or her work or a manuscript related to the creativity product in a refereed research or professional journal (or have it accepted for publication).

Applicants should apply through the Office of the Associate Dean for Academic Affairs, Center for Veterinary Health Sciences and Recognition at least six weeks before the end of their studies at OSU. A committee appointed by the Faculty Council will examine the materials and determine whether or not the candidate will be approved and recognized.

For further information contact the office at 405.744.6595 or email chris.rosa@okstate.edu.

Academic Areas

- Veterinary Biomedical Sciences Graduate Program (p. 1705)
- Veterinary Clinical Sciences (p. 1706)
- Veterinary Pathobiology (p. 1707)

Graduate Programs

- Veterinary Biomedical Sciences, VBS (p. 1705)

Faculty

Veterinary Pathobiology

*Jerry Ritchey, DVM, PhD, DACVP—Professor and Department Head

Regents Professor and Endowed Chairs: *Anthony W. Confer, DVM, PhD, DACVP and Walter R. Sittlington Endowed Chair; Clinton J. Jones, PhD, and Sittlington Endowed Chair; *Susan Little, DVM, PhD, DAVPC-Parasitology and Krull/Ewing Endowed Chair

Professors: *Melanie Breshears, DVM, PhD, DACVP; Kenneth Clinkenbeard, DVM, PhD (emtus); *Jean M. d’Offay, DVM, PhD, DACVM; Richard W. Eberle, PhD; *Robert W. Fulton, DVM, PhD, DACVM (emtus); Katherine M. Kocan, MSPH, PhD (emtus); *James H. Meinkoth, DVM, PhD, DACVP; *Roger Panciera, DVM, PhD, DACVP (emtus); Mason Reichard, PhD; *Timothy Snider, DVM, PhD, DACVP

Associate Professors: Tom Oomens, PhD; *Jared Taylor, DVM, MPH, PhD, DACVM, DACVP

Assistant Professors: Kelly Allen, MS, PhD; *Craig Miller, DVM, PhD, DACVP; *Akhilesh Ramachandran, BVSc&AH, PhD, DACV

Clinical Professors: *Todd Jackson, DVM, DACLAM; *Theresa Rizzi, DVM, DACVP

Clinical Associate Professors: *Keith Bailey, DVM, PhD, DACVP

Clinical Assistant Professor: *Susan E. Fielder, DVM, DACVP; Yoko Nagamori, DVM; Grant B. Rezabek, DVM, MPH

Associate Research Professor: Edmou Kblouin, PhD (emeritus)

Assistant Research Professor: Sahlu Ayalew, PhD

Residents: Rory Chen, DVM; Ryan Kalish, DVM; Maggie McCourt, DVM; Sierra Salopek, DVM, Erin Stayton, DVM

Post-Doctoral Fellows: Kelly Harrison, PhD; Jeff Oster, PhD; Meriam Saleh, PhD; Lijian Zhu, MS, PhD

Graduate Teaching Associates: Nabin Poudel, BVSc; Laximan Sawant, BVSc, MVSc

*Board Certification in Specialty Area

Veterinary Clinical Sciences

*Daniel J. Burba, DVM, DACVS, McCasland Professor of Biomedical Laser Surgery and Interim Department Head

Regents Professor and Endowed Chairs: Kenneth Bartels, DVM, MS, and Cohn Family Chair for Animal Care (emeritus); *Melanie Boileau, DVM, MS, DACVM, and Clinical Professorship in the Center for Veterinary Health Sciences; *Daniel J. Burba, DVM, DACVS, and McCasland Endowed Chair; *Daniele Dugat, Cohn Family Chair for Animal Care; *Andrew Hanzlcek, DVM, MS, DACVM, and Kirkpatrick Chair in Small Animal Medicine; *Todd Holbrook, DVM, DACVIM, DACVSMR, and Jack & June Jacobs Chair in Veterinary Medicine; G. Reed Hoyoka, DVM, PhD, DACT—Bullock Professor; *Michael D. Lorenz, DVM, DACVIM, and Regents Service Professor (emeritus); *Lara Sypniewski, DVM, DABVP, and Henthorne Clinical Professorship

Professors: *Joseph Alexander, DVM, DACVS (President, CIED) (emeritus);

*Kenneth Bartels, DVM, MS (emeritus); *Lionel J. Dawson, BVSc, MS, DACT; *Margi A. Gilmour, DVM, MS, DACO; *Todd Holbrook, DVM, DACVIM, DACVSMR; G. Reed Hoyoka, DVM, PhD, DACT—Bullock Professor; *John P. Hoover, DVM, MS, DACVIM, DABVP (emeritus);

*Kip Lemke, DVM, MSc, DACVA; *Charles G. MacAllister, DVM, DACVIM (emeritus); *Mark Neer, DVM, DACVIM (emeritus); *Richard Shawley, DVM, MS, DACVA (emeritus)

Associate Professors: *Robert J. Bahr, DVM, DACVR (emeritus); *Melanie Boileau, DVM, MS, DACVIM; *Mary H. Bowles, DVM, DACVIM (emeritus); *Erik Clary, DVM, PhD, DACVS; *Lyndi Gilliam, DVM, DACVIM;

*Nicola Di Girolamo, DVM, Msc, PhD, DECZM; *Andrew Hanzlcek, DVM, MS, DACVM, and Kirkpatrick Chair in Small Animal Medicine; *Henry W. Jann, DVM, MS, DACVS, DACVSMR (emeritus); *Meredith Jones, DVM, MS, DACVIM; *John Kirkpatrick, DVM, DABVP (emeritus); Carolyn T. MacAllister, DVM (emeritus); *Gregor L. Morgan, MVSc, PhD, DACT (emeritus); *Michael J. Schoonover, DVM, MS, DACVS, DACVSMR;

Assistant Professors: *Ryan Baumwart, DVM, DACVIM; *Cara Blake, DVM, DACVS; *Joao Manuel Lemos Brandao, LMV, MS, DECZM; *Daniele Dugat, DVM, DACVS; *Candace Lyman, DVM, DACT; *Shane Lyon, DVM, DACVIM;

*Laura Nafe, DVM, MS, DACVIM; *Emily Sharpe, DVM; *Megan Williams, DVM, DACVS

Clinical Professor: *Marjorie Gross, DVM, MS, DACVA (emeritus)

Clinical Associate Professor: *Patricia Cohn, DVM, PhD, DACLAM, *Paul DeMars, DVM, CABVP; *John Gilliam, DVM, DABVP, DACVIM; *Robert Streeter, DVM, MS, DACVIM; *Lara A. Sypniewski, DVM, DABVP

Adjunct Associate Professors: Wei R. Chen, PhD; Alex Cohen, M.D. PhD; *William Dubois, DVM, DABVP; *Cheryl Lopate, DVM, MS, DACT; *Mark Munson, MD

Clinical Assistant Professors: Kimberly D. Carter, DVM; *Mackenzie Hallman, DVM, DACVR; *Carrie Kuzma, DVM; *Katrina Meinkoth, DVM; Sarah Peakheat, DVM

Adjunct Assistant Professors: *Kay Backues, DVM, DACZM; *Jennifer D’Agostino, DVM, DACZM; *Lindsay Donnelly, DVM, MS, DACVIM
Lecturer: Julia Baldrighi, DVM, MS, PhD

Veterinary Biomedical Sciences Graduate Program
Pamela Lovern, PhD—Associate Professor and Coordinator of Graduate Studies

Physiological Sciences
Martin Furr, PhD—Professor and Department Head
Regents Professors: Lin Liu, BS, PhD (Lundberg-Kienlen Professor of Biomedical Research); Carey N. Pope, PhD (Sitlington Chair in Toxicology)
Professors: James E. Breazile, DVM, PhD (emeritus); Nicholas L. Cross, PhD (emeritus); *Michael S. Davis, DVM, MS, PhD (Oxley Chair in Equine Sports Medicine); Jerry R. Malayer, PhD; *Dianne McFarlane, MS, DVM, PhD (Ricks Rapp Professorship); Charlotte L. Ownby, MS, PhD (emeritus); Chris Ross, DVM, PhD; Alastair G. Watson, BVSc, PhD (emeritus)
Adjunct Professors: David W.A. Bourne, BPharm, MS, PhD; Stephen Brimijoin, BA, PhD; Larry P. Gonzalez, BS, MA, PhD; David Marlin, BSc, PhD; Terence H. Risby, PhD
Associate Professors: Jill Akkerman, DVM, PhD; Guangping Chen, MS, PhD; Myron Hinsdale, DVM, PhD; Veronique Lacombe, DVM, PhD, Diplomate ACVIM, Diplomate ECEIM; James W. Lish, MS, PhD (emeritus); Pamela G. Lovern, BA, PhD; *Lara K. Maxwell, DVM, PhD; Joseph P. McCann, PhD; *Sandra E. Morgan, MS, DVM (emerita); Larry E. Stein, PhD (emeritus)
Adjunct Associate Professors: Joseph R. Bidwell, BSc, MSc, PhD; David R. Wallace, BS, PhD; Guolong Zhang, BS, MS, PhD
Assistant Professors: Shitao Li, PhD; Ashish Ranjan, B.V.Sc., PhD (Kerr Endowed Chair); Madhan Subramanian, BVSc, PhD
Adjunct Assistant Professor: Terry A. Gipson, BS, MS, PhD
Assistant Research Professors: Chaoqun Huang, MD, PhD; Narasa Raju Teluguakula, BSc, MSc, PhD
Research Associate: Yurong Liang, BS, PhD; M. Cristina Munteanu, MS, PhD; Pulavendran Sivasami, MS, PhD
Post-Doctoral Fellows: Erin Williams, PhD; Lingyan Wang, BS, MS, PhD; Xiaoyun Yang, PhD
Graduate Teaching Associates: Mallika Achanta, MS; Kalyani Ektate, BVSc; Bhagya Kulasoorkya, BVSc; Girish Patil, MVS; Jennifer Rudd, DVM; Sai Aravindh Sankara-Narayan, MS, Sri Nandhini Sethuraman, BVSc,

MVSc; Mohit Singh, MVSc; Megolhubino Terhuja, U; Joshua VanOsdel, BS; Bo Zhai, MS
Graduate Research Associates: Gayan Bamunuarachchi, BS; Allison Campolo, BS; Austin Ciesielski, MS; Mike Gorbet, BS; Stacey Herriage, BA; Robert Jeyasingh, BVSc; Pramila Lamichhane, MS; Kirstin Poindexter, BS; Samuel Pushparaj; Roshini Sathiaseelan, MVSc; Ramasamy Selvarani, MVSc; Oluwayemisi Semola, U; Lakmini Senarathna, BS
Staff: Dallas Karcher, BS; Christopher H. Pivinski, BS; Lana Schler, BS, Erin Langford-LoftisB8

Oklahoma Animal Disease Diagnostic Laboratory
Professor: *Bill J. Johnson, DVM, DACVP (emeritus)
Assistant Professor: *Akhilesh Ramachandran, BVSc&AH, PhD, DACVM
Clinical Associate Professor: *Keith L. Bailey, DVM, PhD, DACVP
Clinical Assistant Professor: Grant Rezabek, DVM, MS
*Board Certification in Specialty Area
Veterinary Biomedical Sciences Graduate Program

Pamela Lovern, PhD—Associate Professor and Coordinator of Graduate Studies

The veterinary biomedical sciences (VBS) graduate program is a multidisciplinary program intended to provide students a broad base of research areas to address individual student interests. The program is administered within the Center for Veterinary Health Sciences 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 (vbsc@okstate.edu) or online at https://cvhs.okstate.edu/veterinary-biomedical-sciences-graduate-program.

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 quantitative GRE scores at the 75th percentile or greater and GPAs of 3.0 (out of 4.0) or greater, will receive 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 prior to March 1st for admission to the fall semester. Applicants are required to submit official transcripts of all college-level work and scores for the GRE general test. International applicants are required to take an English proficiency exam TOEFL or equivalent exam, unless a student is from a country where English is a first language. For students seeking graduate teaching assistantships, a score of 22 or greater on speaking part of the internet-based TOEFL (iBT) 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 (vbsc@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 VBS graduate program requirements and subject to 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.

Faculty

Pamela Lovern, PhD—Associate Professor and Coordinator of Graduate Studies
Veterinary Clinical Sciences

Internship and Residency Programs

The department offers graduate professional programs (internships and residencies). Internships are one-year post-DVM clinical programs in small or large animal medicine and surgery.

Internships are designed in part to prepare students for residencies or graduate academic programs. Currently, internships are offered in anesthesiology, small animal medicine and surgery rotating, small animal surgery, equine internal medicine and surgery rotating, shelter medicine, theriogenology, 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 small animal surgery, small animal internal medicine, diagnostic imaging/radiology, equine internal medicine, equine surgery, food animal medicine and surgery, and theriogenology. 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 (http://www.virmp.org) and applications are submitted through the VIRMP.

Faculty

*Daniel J. Burba, DVM, DACVS, McCasland Professor of Biomedical Laser Surgery and Interim Department Head

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Lecturer: Julia Baldrighi, DVM, MS, PhD


*Board Certification in Specialty Area