

CURRICULUM VITAE
Cheryl Herman, D.V.M.

PRESENT POSITION AND ADDRESS:

Title: Clinical Associate Professor
Office: Veterinary Integrative Biosciences
College of Veterinary Medicine and Biomedical Sciences
Bldg 507; Room 268 VMS
Texas A&M University
College Station, TX
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EDUCATION:

<u>Degree/Training</u>	<u>Conferring Institution</u>	<u>Field</u>	<u>Year</u>
D.V.M.	University of Saskatchewan, Canada	Veterinary Medicine	1987

PROFESSIONAL EXPERIENCE AND ACADEMIC APPOINTMENTS:

- 1987-1989 Private Veterinary Practitioner - mixed animal practice
Parkland Veterinary Services, Spruce Grove, Alberta, Canada
- 1989-1992 Private Veterinary Practitioner - mixed animal practice
Lloydminster Animal Hospital, Lloydminster, Alberta, Canada
- 1992-1994 Private Veterinary Practitioner - mixed animal practice
Wellington Veterinary Services, Elora, Ontario, Canada
- 1994-1999 Private Veterinary Practitioner - small animal practice
Terwillegar Veterinary Clinic, Edmonton, Alberta, Canada
- 1995 Locum Veterinary Practitioner - small animal practice
Westbrook Veterinary Clinic, Edmonton, Alberta, Canada
- 1995-1999 Private Veterinary Practitioner - feline practice
Glenora Cat Clinic, Edmonton, Alberta, Canada
- 1998 Locum Veterinary Practitioner - small animal practice
Ermineskin Veterinary Clinic, Edmonton, Alberta, Canada
- 1999-2000 Adventure cyclist - completed a self-supported 23,000 km around-the-world
bicycling expedition with my husband H. Morgan Scott
- 2000-2001 Private Veterinary Practitioner - feline practice
Glenora Cat Clinic, Edmonton, Alberta, Canada

2002-2007 Lecturer - veterinary gross anatomy
 Department of Veterinary Integrative Biosciences (VIBS)
 College of Veterinary Medicine and Biomedical Sciences
 Texas A&M University, College Station, TX

Sept. 2007- Senior lecturer- veterinary gross anatomy (awarded promotion by the Texas
 Jan 2009 A&M University System Board of Regents)
 Department of Veterinary Integrative Biosciences (VIBS)
 College of Veterinary Medicine and Biomedical Sciences
 Texas A&M University, College Station, TX

Jan. 2009- Instructor - veterinary anatomy and physiology
 Jan. 2014 Department of Anatomy and Physiology (A&P)
 College of Veterinary Medicine
 Kansas State University, Manhattan, KS

Jan 2014- Clinical Associate Professor- veterinary gross anatomy
 Department of Veterinary Integrative Biosciences (VIBS)
 College of Veterinary Medicine and Biomedical Sciences
 Texas A&M University, College Station, TX

MEMBERSHIPS:

1987-1992 Alberta Veterinary Medical Association (provincial licensing body)
 1989-1992 Saskatchewan Veterinary Medical Association (provincial licensing body)
 1992-1994 College of Veterinarians of Ontario (provincial licensing body)
 1994-2001 Alberta Veterinary Medical Association (provincial licensing body)
 1995-1999 Edmonton Association of Small Animal Practitioners
 1987-2002 Canadian Veterinary Medical Association
 2006-present Texas State Board of Veterinary Medical Examiners (state licensing body)
 2008-present American Association of Veterinary Anatomists
 2009-2014 Kansas State Board of Veterinary Medical Examiners (state licensing body)

CLINICAL SPECIALTY/BOARD CERTIFICATION/ PROFESSIONAL LICENSES:

1987 Parts A and B of the National Examining Board (NEB) for North American
 Veterinary Licensing (NAVLE equivalence)

2006-2008 Texas veterinary license - active
 2009-2013 Texas veterinary license - inactive
 2009-2014 Kansas veterinary license - resigned in good standing
 2014-present Texas veterinary license - active

AWARDS AND HONORS:

1981	Alexander Rutherford Scholarship - Alberta Heritage Scholarship Fund
1981	Bishop Lloyd Scholarship
1981	Lions Club Scholarship
1982	University of Saskatchewan Undergraduate Scholarship
1983	University of Saskatchewan Undergraduate Scholarship
2004	Admitted to the Eta chapter of Phi Zeta Honor Society of Veterinary Medicine
2010	Teaching Excellence Award - Teva Animal Health
2013	Merial Teaching Excellence Award

TEACHING EXPERIENCE:

Texas A&M University:

Biomedical Anatomy (VIBS 305): In this undergraduate course, I serve as either the course coordinator or a laboratory instructor during the summer and/or fall semesters. This is a gross anatomy class for biomedical science students that utilizes the dog as the animal model. As the course coordinator I prepare all the course material, present all the lectures and compose, administer and grade all of the written and laboratory practical examinations.

Veterinary Gross Anatomy I (VIBS 910): I am a laboratory instructor in Gross Anatomy I, the required small animal anatomy course for the first year veterinary students. This is an intensive introductory gross anatomy course which includes lecture, laboratory dissection of the dog, live dog palpation instruction, and instruction in normal radiographic anatomy and basic radiography techniques. The majority of my student contact hours are accumulated in the laboratory where the students work in small groups on the dissection of a dog cadaver. I assist with the administering and grading of written and laboratory practical examinations.

Veterinary Gross Anatomy II (VIBS 912): From 2004-2008, I was the course co-coordinator in the required large animal anatomy course, Gross Anatomy II, the second required gross anatomy course that focuses on domestic farm animals. Laboratory dissection includes the horse, the ruminant, the pig, and the chicken. Also, included in this course is instruction in normal radiographic anatomy of the horse and ox as well as live horse palpation. As course co-coordinator I prepared course materials, presented lectures and composed and delivered written and laboratory practical examinations. I was the coordinator for all the live horse palpation exercises. Currently, I assist with the laboratory instruction, lecture presentations and the administration and grading of examinations.

Summer Anatomy Workshop: In the summer of 2008 I coordinated an intensive 6-week anatomy workshop for incoming first year veterinary students.

Kansas State University:

Gross Anatomy I (AP 700): I was a lecture and laboratory instructor in Gross Anatomy I, the required small animal anatomy course for the first year veterinary students. This is an intensive introductory gross anatomy course which includes lecture, laboratory dissection of the dog, live dog palpation instruction, and instruction in normal radiographic anatomy and basic radiography techniques. The majority of my student contact hours are accumulated in the laboratory where the students work in small groups on the dissection of a dog cadaver. I contribute to the

preparation and delivery of lectures, laboratories, and written and laboratory practical examinations and grading of examinations.

Gross Anatomy II (AP 705): I was a lecture and laboratory instructor in Gross Anatomy II the second required gross anatomy course that focuses on domestic farm animals. Laboratory dissection includes the horse, the ruminant, the pig, and the chicken. Also, included in this course is instruction in normal radiographic anatomy of the horse and ox as well as live horse palpation. Again, I contribute to the preparation and delivery of lectures, laboratories, and written and laboratory practical examinations as well as grading of the examinations.

All of the above listed courses require a tremendous time commitment for lecture and laboratory preparation and teaching. They emphasize laboratory dissection which provides an excellent opportunity for hands on teaching of small groups of students and for the integration of clinical applications by drawing on my years of clinical experience.

Veterinary Neuroscience (AP 780, formerly AP 720): I was a laboratory instructor in this course. Students learn normal gross anatomy of the central nervous system including structures that can be identified on the external surface, on hemi-sections and on transverse sections of the brain and spinal cord. Emphasis is placed on the learning of lesion localization in neurological disorders.

Special Interest Anatomy (AP 780): I was the course coordinator for this 2-hour/week laboratory based elective for first and second year veterinary students. It is a self-directed laboratory dissection course which includes dissection of a wide variety of species chosen by the students, such as marine mammals, reptiles, birds, fish, small mammals, as well as common domestic species. The class is designed to allow students to focus on an area of interest to which they might never be exposed in the traditional gross anatomy courses. Students are evaluated on participation and are required to complete a short written assignment at the conclusion of each lab period.

Applied Anatomy (AP 780): I was the course coordinator for this 2-hour/week laboratory based elective for first or second year veterinary students focusing on the anatomy of the thoracic and pelvic limbs of the dog and cat. The purpose of the elective was to integrate the anatomy learned in AP 700 Gross Anatomy I with common medical and surgical approaches to the bones and joints of the thoracic and pelvic limbs. The focus of the class was on reinforcing and mastering the anatomical knowledge necessary to competently approach such procedures as arthrocentesis, joint surgery, fracture repair and amputation. Fresh cadaver limbs were utilized and traditional examinations were given. An orthopedic surgeon from Clinical Sciences assisted with this course.

Veterinary Physiology II (AP 740): I was a laboratory instructor for the cardiac physiology laboratories. During these labs, students learn to run and interpret human and canine or feline electrocardiograms as well as blood pressure measurements.

Animal Sciences & Industry Seminar (ASI 580): Conducted mock interviews for senior students majoring in animal sciences and reviewed and edited their written personal statements. I met with the students individually, after the interviews, to provide constructive feedback. This aspect of the course assists the students with the preparation of their application and interview for professional and graduate programs.

Undergraduate:

<u>Course Title</u>	<u>Institution</u>	<u>Credit Hr</u>	<u>Formal # of Contact Hr</u>	<u>Students</u>	<u>Dates</u>
VIBS 305	<i>Texas A&M</i>	4	85	70	Summer 2004
Biomedical Anatomy		4	85	70	Summer 2005
		4	85	70	Summer 2006
		4	84	90	Fall 2006
		4	85	70	Summer 2007
		4	42	20	Spring 2014
		4	85	80	Summer 2014
ASI 580	<i>Kansas State</i>	1	20	~80	Fall 2012
Animal Sciences & Industry Seminar					

Professional:

<u>Course Title</u>	<u>Institution</u>	<u>Credit Hr</u>	<u>Formal # of Contact Hr</u>	<u>Students</u>	<u>Dates</u>
VIBS 910	<i>Texas A&M</i>	4	180	130	2002 - 2008 2014-present
Veterinary Gross Anatomy I					
VIBS 912	<i>Texas A&M</i>	4	240	130	2002 - 2008 2014-present
Veterinary Gross Anatomy II					
AP 705	<i>Kansas State</i>	6	180	112	2009-2013
Veterinary Gross Anatomy II					
AP 700	<i>Kansas State</i>	5	176	112	2009-2013
Veterinary Gross Anatomy I					
AP 720	<i>Kansas State</i>	2	48	112	2009
Veterinary Neuroscience					
AP 780	<i>Kansas State</i>	1	32	61	2010-2013
Special Interest Anatomy					
AP 780	<i>Kansas State</i>	1	32	16	2010-2012
Applied Anatomy					
AP 780	<i>Kansas State</i>	2	48	20-112	2010-2013
Veterinary Neuroscience					
AP 747	<i>Kansas State</i>	6	20	112	2010-2013
Veterinary Physiology II					

TEACHING PROGRAMS:

I created and developed the Applied Anatomy course, a new elective offered to veterinary students. This is an entirely laboratory-based class in which I designed, prepared and implemented all aspects of the course materials including the writing and grading of the examinations, the procurement and preparation of cadaver limbs, the purchasing of necessary laboratory and surgical supplies, compilation of the printed course material necessary for each class and setting up and conducting the labs.

I have taken over as the course coordinator for Special Interest Anatomy. I have made significant changes to the syllabus and created a weekly online written assignment for the students to complete after each class session which I manually grade. I have also created an online message board for the students to post information about interesting facts they learned during their dissection. The online material is offered through K-State Online, a Kansas State University provided service. I arrange for the ordering of all specimens and necessary supplies for this course and set up/coordinate the specimens for each lab.

For the gross anatomy courses at Kansas State University I utilize a variety of class room assessment techniques as well as video clips to engage students in the classroom setting. The curriculum is delivered in an electronic format with the students using computers with access to all course materials. This format allows me to include Turning Point® questions (an audience response system) in my lectures, which provide instant feedback on the students' level of understanding of the material. Other methods I have employed are: small group exercises involving the labeling and drawing anatomical structures; "think-pair-share"; and asking for the "muddiest point" at the conclusion of lectures.

I was actively involved in a collaborative project which was a part of the College of Veterinary Medicine Signature program: "Interactive Learning Program for Equine Anatomy and Clinical Science" at Texas A&M University. I contributed to the development of an interactive computer program entitled *Horse Limb Anatomy and Injection Sites* which covers the normal anatomy of the equine thoracic limb with tutorial, practice and quiz sections involving digital images of prepared specimens. The Injection Sites tutorial is a guideline for intra-articular injections and perineural anesthesia of the thoracic and pelvic limbs of the horse. It utilizes digital images of fresh limbs, dissected fresh limbs and live horse demonstrations, illustrating injection techniques and gross anatomical landmarks for injection sites. The program was constructed with the utilization of *Adobe Photoshop*® and *Authorware*®. These computer tutorials are designed to assist the first year veterinary students with their learning of equine anatomy and to serve as a reference for veterinary students during their clinical years.

I created a series of line drawings of equine radiographic images as a teaching aid for learning normal radiographic anatomy of the horse. Using the computer program *Adobe Photoshop*®, individual bones are outlined in detail on scanned equine radiographs. The radiographs and the line drawings are then presented in the laboratory for students to view. I composed questions and answers to accompany each radiograph as a form of self tutorial for the students.

Assisted Dr. Anton Hoffman with the photography and video of an instructional palpation guide for the dog for first year veterinary students at Texas A&M University.

BIBLIOGRAPHY:

Book Chapters:

1. **Herman, C.L.** (2009). The Anatomical Differences Between the Donkey and the Horse; In: Veterinary Care of Donkeys, Matthews, N.S. and Taylor, T.S.(eds). International Veterinary Information Service, Ithaca NY (www.ivis.org)
<http://www.ivis.org/signin.asp?url=/advances/Matthews/herman/chapter.asp?LA=1>

PUBLICATIONS:

1. Wang, H., Rush, B.R., Wilkerson, M., **Herman, C.**, Miesner, M., Renter, D., Gehring, R. (2013) From Theory to Practice: Integrating Instructional Technology Into Veterinary Medical Education. *Journal of Veterinary Medical Education* 2013: advance online article. DOI:10.3138/jvme.0113-009R2

SERVICE ACTIVITIES:

Professional Service:

Texas A&M University

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| 2004-2007 | A faculty member for Selections Committee interviews for prospective veterinary students |
| 2004-2009 | Supervision and instruction of second year veterinary students in the preparation of equine and ruminant prosections for VIBS 912 Veterinary Gross Anatomy II |
| 2005 | SAVMA Symposium wetlab instructor |
| 2005-2009 | The faculty advisor for the class of 2009 |
| 2005 | A member of the search committee charged with the selection of a gross anatomy laboratory manager. |
| 2005-2009 | Actively involved in the embalming and preparation of the large animal cadavers for VIBS 912 Veterinary Gross Anatomy II |
| 2006 | Collaborated in the drafting of a proposal for the conversion of the old necropsy floor (building 508, room 63) to a multi-disciplinary embalming facility and specimen storage area |
| 2005-2008 | A faculty instructor for AAFP student chapter wetlab. |
| 2007 | A member of the committee for Peer Review of Teaching Efforts for Dr. Tawfik Omran in VTPB for tenure and promotion |

- 2007- 2008 The faculty advisor to Green Vets an SCAVMA recognized student organization
- 2008 The VIBS faculty representative for an academic review committee for a student initiated grade appeal

Kansas State University

- 2009 An invited panel member for a Behavior Seminar in Veterinary Physiology II
- 2009- 2013 Actively involved in the embalming and preparation of the large animal cadavers for AP 705 Veterinary Gross Anatomy II
- 2009-2013 Responsible for the embalming and preparation of camelid cadavers for AP 780 Special Interest Anatomy
- 2010-2013 A faculty mentor for first year veterinary student mentor groups
- 2010-2013 The principal investigator and responsible faculty member for the Institutional Animal Care and Use Committee (IACUC) approved protocol for Special Interest Anatomy.
- 2011-2012 The responsible faculty member for Addendum Request for Animal Use in Non-invasive, Non-painful Teaching, Observations or Demonstrations protocol approved by the Institutional Animal Care and Use Committee (IACUC)
- 2012 & 2013 The faculty advisor for the Student Chapter of the Emergency Medicine and Critical Care Club
- 2012 & 2013 A faculty instructor for the Student Chapter of the Emergency Medicine and Critical Care Club wetlabs- CPR, tracheostomy and gastropexy
- 2012 & 2013 The principal investigator and responsible faculty member for all necessary Institutional Animal Care and Use Committee (IACUC) approved protocols for the Student Chapter of the Emergency Medicine and Critical Care Club wet-labs.
- 2013 A faculty instructor for the student surgery club limb amputation wetlab.
- 2013 The Anatomy and Physiology faculty representative for an academic review committee for a student initiated grade appeal

Major Committee Assignments:

Texas A&M University:

Departmental: Teaching subcommittee

College: 2005 - 2008: Academic Progress Committee I

2006 - 2007: Scholarship and Awards Committee
2007 - 2008: Curriculum Committee
2014-present: Selections Committee

University: 2006-2008 Faculty Advisory Committee for Disability Services
2014-2017 Non-tenure Track Faculty Sub-committee

Kansas State University:

Departmental: spring 2013: Search committee member charged with the selection of a new Head for the Department of Anatomy and Physiology

College: 2009-2012: Admissions Committee
2012-2014: Continuing Education Committee

Manuscript Review for Journals or Books:

Small Ruminant Research (2008)
Anatomia, Embryologia, Histologia (2012)

OTHER SCHOLARLY ACTIVITY:

Invited Presentations:

July 2010 College of Veterinary Medicine, Texas A&M University, College Station Texas: Donkey and Mule Short Course. “Anatomical Differences Between the Donkey and the Horse”

Feb. 2012 KSU-CVM Student Chapter of AAEP. “Anatomical Differences Between the Donkey and the Horse”

Nov. 2013 KSU-CVM Student Chapter of AAEP. “Anatomical Differences Between the Donkey and the Horse”

Professional Development:

Oct 2004 Center for Teaching Excellence, Texas A&M University; attended a 2 day Teaching Portfolio Workshop

2006-2007 Faculty Teaching Academy: Inspiration 101, Center for Teaching Excellence, Texas A&M University; attended a series of lectures and workshops administered by Texas A&M “Master Teachers”

2007-2008 Center for Teaching Excellence, Texas A&M University; attended a 4 hour workshop entitled: “Who are our students? Teaching to the Current Generation”

2007-2008 Center for Teaching Excellence, Texas A&M University; attended a 4 hour workshop entitled: “How to help students become self directed learners”

- 2007-2008 Center for Teaching Excellence, Texas A&M University; attended a 4 hour workshop entitled: "Lecturing Well"
- April 2008 Wakonse South, Burnet, Texas, Center for Teaching Excellence, Texas A&M University; attended an intensive 3 day teaching workshop
- July 2008 American Association of Veterinary Anatomists, Texas A&M University, College Station, TX; attended the annual meeting.
- April 2010 Wakonse South, Burnet, Texas, Center for Teaching Excellence, Texas A&M University; attended an intensive 3 day teaching workshop and I facilitated a small group session
- 2010-present Friday Afternoon Teaching Seminar, Kansas State College of Veterinary Medicine; monthly meetings covering a variety of pedagogical topics
- Jan 13, 2011 Excellence in Teaching and Learning Retreat, Faculty Exchange for Teaching Excellence, Kansas State University
- April 2011 Wakonse South, Burnet, Texas, Center for Teaching Excellence, Texas A&M University; attended an intensive 3 day teaching workshop
- Aug 2011 American Association of Veterinary Anatomists, Cornell University, Ithaca, NY; attended the biannual meeting
- Feb 2013 Simple Strategies for Student Success, Center for the Advancement of Teaching and Learning, Faculty Exchange for Teaching Excellence; attended an interactive 2 day teaching workshop
- April 2013 Wakonse South, Marble Falls, Texas, Center for Teaching Excellence, Texas A&M University; attended an intensive 3 day teaching workshop
- July 2013 American Association of Veterinary Anatomists, University of Georgia, Athens, GA; attended the biannual meeting
- 2013 Faculty participant in the University level "Year of the Brain", Center for the Advancement of Teaching and Learning, Kansas State University
- April 2014 Wakonse South, Marble Falls, Texas, Center for Teaching Excellence, Texas A&M University; attended an intensive 3 day teaching workshop

I attend a minimum of 20 hours of veterinary continuing education per year to remain current with advances in medicine and surgery within the veterinary profession.