DEPARTMENT OF CLINICAL SCIENCES

Office in Veterinary Teaching Hospital, 300 West Drake Road, Room A201 (970) 297-1274 cvms.colostate.edu/clinsci

Professor Wayne Jensen, Department Head

Faculty in the Department of Clinical Sciences participate in training professional veterinary medical students and graduate students. For the veterinary medical student curriculum, students are instructed in the diagnosis, medical and surgical treatment, and prevention and management of domestic and exotic animal diseases. Through field service clinical experience, students receive on-the-farm training in livestock herd health management and production medicine. Our major clinical training center is the Veterinary Teaching Hospital, which operates state-of-the-art primary and referral services in all areas of small animal medicine and surgery, equine, and agricultural animal clinical care.

Undergraduate
No undergraduate major is offered.

Graduate

Graduate Programs in Clinical Sciences

Graduate programs offered in the department lead to Master of Science or Doctor of Philosophy degrees. Particular research focus areas within the department include epidemiology, musculoskeletal diseases, cancer biology, cardiovascular diseases, regenerative medicine, and infectious diseases of animals.

The department also offers a three-year combined master’s degree and residency program in large and small animal surgery, anesthesiology, cardiology, dentistry, internal medicine, neurology, oncology, ophthalmology, dermatology, small and large animal sports medicine and rehabilitation, and emergency and critical care medicine. These training programs partially fulfill requirements for board certification in these specialties. Students interested in graduate work should refer to the Graduate and Professional Bulletin and the Department of Clinical Sciences (http://www.cvms.colostate.edu/clinsci).

Ph.D.

- Ph.D. in Clinical Sciences*

* Please see department for program of study.

Courses

Clinical Sciences (VS)

VS 313 Prevention and Control of Livestock Diseases Credits: 3 (3-0-0)
Also Offered As: ANEQ 313.
Course Description: Common ailments of livestock; sanitation and disease prevention and control.
Prerequisite: (ANEQ 230 or BMS 300 or ANEQ 305) and (ANEQ 310, may be taken concurrently and ANEQ 320, may be taken concurrently).
Registration Information: Junior or senior standing. Credit not allowed for both VS 313 and ANEQ 313.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

VS 331 Histology Credits: 4 (3-2-0)
Course Description: Analysis of animal cells, tissues, and organs emphasizing light microscopy.
Prerequisite: BMS 300.
Registration Information: Must register for lecture and laboratory. Credit not allowed for both VS 331 and BMS 330. Sections may be offered: Online.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

VS 333 Domestic Animal Anatomy Credits: 4 (3-3-0)
Course Description: Comparative functional anatomy of the dog, horse, and cow.
Prerequisite: BZ 110 or LIFE 102.
Registration Information: Must register for lecture and laboratory. Credit not allowed for both VS 333 and BMS 305. Sections may be offered: Online.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

VS 410 Pets Forever – Supporting the Life-Long Bond Credits: 3 (1-4-0)
Course Description: Opportunity to engage with older adults and individuals with disabilities and their companion animals. Enrichment of students’ experience through the opportunity to gain community service experience.
Prerequisite: HDFS 101 or PSY 100 or SOWK 110.
Registration Information: Must register for lecture and laboratory. Sections may be offered: Online.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Traditional.
Special Course Fee: No.

Master Programs

- Master of Science in Clinical Sciences
VS 479  Biology and Behavior of Dogs  Credits: 3 (3-0-0)
Also Offered As: BZ 479.
Course Description: Interactions of physiology, neurobiology, and genetics on behavior of domestic dogs, and how evolution and domestication influence behavioral traits.
Prerequisite: LIFE 103 or BZ 110.
Registration Information: Credit not allowed for both VS 479 and BZ 479.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

VS 495  Independent Study  Credits: Var[1-18] (0-0-0)
Course Description: 
Prerequisite: None.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 533  Epidemiology of Infectious Diseases/Zoonoses  Credits: 3 (2-0-1)
Also Offered As: MIP 533.
Course Description: Epidemiologic features of infectious and parasitic diseases that have a major impact on community medicine.
Prerequisite: MIP 300.
Registration Information: Must register for lecture and recitation. Credit not allowed for both VS 533 and MIP 533.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

VS 562  Applied Data Analysis  Credits: 3 (3-0-0)
Course Description: Data management, application and interpretation of statistical analysis, and reporting of results for students in health science fields.
Prerequisite: STAT 301 or STAT 307.
Registration Information: Credit not allowed for VS 562, EDRM 606 and PBHL 560.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

VS 570  Issues in Animal Agriculture  Credits: 2 (2-0-0)
Also Offered As: AGRI 570.
Course Description: Issues that have a major impact on the direction of changes in animal agriculture.
Prerequisite: None.
Registration Information: Credit not allowed for both VS 570 and AGRI 570.
Term Offered: Fall (even years).
Grade Mode: Traditional.
Special Course Fee: No.

VS 579  Animal Behavior in Captive Populations  Credits: 3 (3-0-0)
Also Offered As: NSCI 579.
Course Description: How animals learn, perceive their world and behave, and how all of those intersect to alter behavior in captive settings.
Prerequisite: BZ 300.
Registration Information: Enrollment in the M.P.N.S., Zoo, Aquarium, and Shelter Management specialization can substitute for BZ 300. Credit not allowed for both VS 579 and NSCI 579.
Terms Offered: Fall, Spring.
Grade Mode: Traditional.
Special Course Fee: No.

VS 602  Critical Evaluation of Scientific Literature  Credits: 2 (1-0-1)
Course Description: Method of evaluating scientific literature. Students present critiques of papers they have chosen.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Must register for lecture and recitation.
Term Offered: Fall.
Grade Mode: S/U Sat/Unsat Only.
Special Course Fee: No.

VS 605  Comparative Anesthesiology Laboratory  Credit: 1 (0-3-0)
Course Description: Techniques in anesthesia for large and small animals.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Must have concurrent registration in VS 605.
Term Offered: Spring (every third year).
Grade Mode: Traditional.
Special Course Fee: No.

VS 606  Comparative Anesthesiology Laboratory  Credit: 1 (0-3-0)
Course Description: Techniques in anesthesia for large and small animals.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Must have concurrent registration in VS 605.
Term Offered: Spring (every third year).
Grade Mode: Traditional.
Special Course Fee: No.

VS 612  Plastic and Reconstructive Surgery  Credits: 2 (2-0-0)
Course Description: Advances in surgical patient care, surgical instrumentation, and reconstruction.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: DVM degree or equivalent professional medicine degree.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

VS 613  Plastic and Reconstructive Surgery Laboratory  Credit: 1 (0-3-0)
Course Description: Advances in surgical patient care, surgical instrumentation, and reconstruction.
Prerequisite: VM 786B.
Restriction: Must be a: Graduate, Professional.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

VS 626  Infertility and Genital Disease  Credits: 2 (2-0-0)
Course Description: Infectious and noninfectious causes of reproductive failure in food animals.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Term Offered: Fall (every third year).
Grade Mode: Traditional.
Special Course Fee: No.
VS 628  Physiology and Pathophysiology  Credits: 3 (3-0-0)
Course Description: Overview of the normal physiology and pathophysiology of disease states of mammalian organ systems.
Prerequisite: BMS 500 and BMS 501.
Restriction: Must be a Graduate, Professional.
Registration Information: DVM degree or equivalent professional medicine degree can substitute for BMS 500; BMS 501.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

VS 630  Orthopedic Surgery  Credits: 3 (3-0-0)
Course Description: Techniques, devices, and prosthetic materials in rehabilitating musculoskeletal problems.
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Term Offered: Fall (every third year).
Grade Mode: Traditional.
Special Course Fee: No.

VS 631  Orthopedic Surgery Laboratory  Credit: 1 (0-3-0)
Course Description: Procedures applied to skeletal preparations and living animals.
Prerequisite: (VM 786A or VM 786B) and (VS 630, may be taken concurrently).
Restriction: Must be a Graduate, Professional.
Term Offered: Fall (every third year).
Grade Mode: Traditional.
Special Course Fee: No.

VS 642  Ophthalmology  Credits: 5 (4-2-0)
Course Description: Instrumentation, ocular therapeutics, and clinical ophthalmology.
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Registration Information: Must register for lecture and laboratory.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.

VS 644  Principles of Theriogenology  Credits: 2 (2-0-0)
Course Description: Provide basic and practical understanding of reproduction in domestic species. Including the anatomy and physiology of males and females, gamete development, fertilization, embryonic development, parturition and early neonatal care; focusing on domestic animals. In addition to basic normal physiology, characteristic disease states and potential treatments will be discussed, as well as methods for improving reproductive capabilities, such as artificial insemination and embryo transfer.
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Registration Information: Written consent of instructor.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

VS 645  Surgery of the Eye  Credits: 3 (2-3-0)
Course Description: Techniques, indications, and complications.
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Registration Information: Must register for lecture and laboratory.
Term Offered: Spring (every third year).
Grade Mode: Traditional.
Special Course Fee: No.

VS 648  Food Animal Production and Food Safety  Credits: 2 (2-0-0)
Also Offered As: VM 648.
Course Description: Basic orientation to food animal production units, herd health concepts, and issues of food safety from preharvest through processing and distribution.
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Registration Information: Enrollment in Food Science/Safety Graduate Interdisciplinary Studies program required. Credit not allowed for both VS 648 and VM 648.
Term Offered: Spring.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 650  Comparative Abdominal Surgery  Credits: 3 (3-0-0)
Course Description: New techniques in surgery of abdominal viscera.
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Term Offered: Fall (every third year).
Grade Mode: Traditional.
Special Course Fee: No.

VS 651  Comparative Abdominal Surgery Laboratory  Credit: 1 (0-3-0)
Course Description: Reparative and reconstructive abdominal surgical procedures.
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Registration Information: DVM degree or equivalent professional medicine degree.
Term Offered: Fall (every third year).
Grade Mode: Traditional.
Special Course Fee: No.

VS 655  Echocardiography in Veterinary Medicine  Credits: 3 (2-3-0)
Course Description: Technical proficiency in obtaining echocardiographic images; fundamental understanding of diagnostic criteria for common cardiac disease in dogs and cats.
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Registration Information: DVM degree or equivalent professional medicine degree required. Must register for lecture and laboratory.
Term Offered: Spring (odd years).
Grade Mode: Traditional.
Special Course Fee: No.

VS 660  Neurology and Neurosurgery  Credits: 3 (3-0-0)
Course Description: Diagnostic and surgical techniques for the nervous system.
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Term Offered: Spring (every third year).
Grade Mode: Traditional.
Special Course Fee: No.

VS 661  Neurology and Neurosurgery Laboratory  Credit: 1 (0-2-0)
Course Description: Laboratory practice of comparative neurology (large and small animal), neurosurgical techniques and procedures.
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Registration Information: This is a partial semester course. DVM degree or equivalent professional medicine degree required.
Term Offered: Spring (every third year).
Grade Mode: Traditional.
Special Course Fee: No.
VS 665A  Advanced Topics in Veterinary Cardiology: Cardiopulmonary
Pathophysiology  Credits: 3 (3-0-0)
Course Description: The pathophysiology, advanced diagnostics, and
treatment strategies for animals and humans with spontaneous
cardiovascular disease.
Prerequisite: BMS 420.
Restriction: Must be a: Graduate, Professional.
Term Offered: Spring (every third year).
Grade Mode: Traditional.
Special Course Fee: No.

VS 665B  Advanced Topics in Veterinary Cardiology: Heart Failure and
Cardiac Biomarkers  Credits: 2 (2-0-0)
Course Description: Review of the pathophysiology of heart failure.
Discuss the diagnostic and therapeutic approach to heart failure. Clinical
trial design will be reviewed prior to summarizing recent clinical trial
results in humans and dogs.
Prerequisite: BMS 420.
Restriction: Must be a: Graduate, Professional.
Registration Information: DVM degree or equivalent professional
medicine degree required, or by instructor permission.
Term Offered: Fall (every third year).
Grade Mode: Traditional.
Special Course Fee: No.

VS 673  Thoracic and Cardiovascular Surgery  Credits: 3 (3-0-0)
Course Description: Surgical approaches to the thorax and the central
and peripheral cardiovascular system.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: DVM degree or equivalent professional
medicine degree required.
Term Offered: Fall (every third year).
Grade Mode: Traditional.
Special Course Fee: No.

VS 674  Thoracic and Cardiovascular Surgery Laboratory  Credit: 1 (0-3-0)
Course Description: Surgical procedures applied to the chest, heart, and
vessels.
Prerequisite: (VM 786A or VM 786B) and (VS 673, may be taken
concurrently).
Restriction: Must be a: Graduate, Professional.
Term Offered: Fall (every third year).
Grade Mode: Traditional.
Special Course Fee: No.

VS 699  Thesis  Credits: Var[1-18] (0-0-0)
Course Description: Comprehensive review, update of oncology,
cardiology, reproduction, opthamology, and radiology.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Term Offered: Fall (every third year).
Grade Mode: Traditional.
Special Course Fee: No.

VS 702  Postgraduate Medicine II  Credits: Var[1-3] (0-0-0)
Course Description: Comprehensive review, update of neurology,
gastroenterology, and ophthalmology.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Term Offered: Spring (every third year).
Grade Mode: Traditional.
Special Course Fee: No.

VS 703  Postgraduate Medicine III  Credits: Var[1-3] (0-0-0)
Course Description: Comprehensive review, update of oncology,
cardiology, reproduction, opthamology, and radiology.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Term Offered: Fall (every third year).
Grade Mode: Traditional.
Special Course Fee: No.

VS 704  Postgraduate Medicine IV  Credits: Var[1-3] (0-0-0)
Course Description: Comprehensive review, update of hematology,
nephrology, urology, respiratory, hepatic, and pancreatic.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Term Offered: Spring (every third year).
Grade Mode: Traditional.
Special Course Fee: No.

VS 716  Advanced Studies in Reproduction  Credits: 2 (2-0-0)
Course Description: Biochemical and physiological basis for problems in
reproduction.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Term Offered: Spring.
Grade Mode: Traditional.
Special Course Fee: No.

VS 718  Cancer Biology Clinical Practicum  Credits: 2 (0-0-4)
Course Description: Exposes graduate students engaged in laboratory
cancer research to cancer from a clinical perspective, through VTH
clinical rotations.
Prerequisite: ERHS 510.
Restriction: Must be a: Graduate, Professional.
Term Offered: Summer.
Grade Mode: Traditional.
Special Course Fee: No.

VS 732  Veterinary Sports Medicine and Rehabilitation  Credit: 1 (1-0-0)
Also Offered As: VM 732.
Course Description: An introduction to the principles and practice of
sports medicine and rehabilitation in veterinary medicine.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: VM 732: Admission to professional curriculum
in veterinary medicine. All courses must be taken in prescribed sequence
in the PVM program. VS 732: DVM or equivalent professional degree or
consent of instructor.
Term Offered: Fall.
Grade Mode: Traditional.
Special Course Fee: No.
VS 733  Advanced Veterinary Epidemiology  Credits: 4 (4-0-0)
Course Description: Advanced epidemiological and statistical techniques for the design and analysis of research projects.
Prerequisite: (ERHS 532) and (ERHS 542 or ERHS 544 or STAT 511 or STAT 512 or VS 662).
Restriction: Must be a: Graduate, Graduate cooperative program, Professional.
Term Offered: Spring (odd years).
Grade Mode: Traditional.
Special Course Fee: No.

VS 750  Clinical and Applied Pharmacology  Credits: 2 (2-0-0)
Course Description: Factors involved in drug dosing and variability of drug response. Applications in veterinary and human medicine.
Prerequisite: BMS 450.
Restriction: Must be a: Graduate, Professional.
Registration Information: DVM degree or equivalent professional medicine degree can substitute for BMS 450.
Term Offered: Spring (even years).
Grade Mode: Traditional.
Special Course Fee: No.

VS 760  Methods in Orthopaedic Research  Credits: 3 (2-0-1)
Course Description: Methods utilized in orthopaedic research will be presented by reviewing basic principles followed by examples of use in research projects.
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Must register for lecture and recitation.
Term Offered: Spring (odd years).
Grade Mode: Traditional.
Special Course Fee: No.

VS 784  Supervised College Teaching  Credits: Var[1-18] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 792  Seminar  Credits: Var[1-18] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 795A  Independent Study: Small Animal Medicine  Credits: Var[1-5] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Maximum of 5 credits allowed in course.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 795B  Independent Study: Large Animal Medicine  Credits: Var[1-5] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Maximum of 5 credits allowed in course.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 795C  Independent Study: Small Animal Surgery  Credits: Var[1-5] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Maximum of 5 credits allowed in course.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 795D  Independent Study: Equine Surgery  Credits: Var[1-5] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Maximum of 5 credits allowed in course.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 795E  Independent Study: Equine Orthopedics  Credits: Var[1-5] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Maximum of 5 credits allowed in course.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 795F  Independent Study: Large Animal Reproduction  Credits: Var[1-5] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Maximum of 5 credits allowed in course.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 795G  Independent Study: Anesthesiology  Credits: Var[1-5] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a: Graduate, Professional.
Registration Information: Maximum of 5 credits allowed in course.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.
VS 795J Independent Study: Cardiology Credits: Var[1-5] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Registration Information: Maximum of 5 credits allowed in course.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 795K Independent Study: Neurology Credits: Var[1-5] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Registration Information: Maximum of 5 credits allowed in course.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 795L Independent Study: Dermatology Credits: Var[1-5] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Registration Information: Maximum of 5 credits allowed in course.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 795M Independent Study: Ophthalmology Credits: Var[1-5] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Registration Information: Maximum of 5 credits allowed in course.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 795O Independent Study: Herd Health Management Credits: Var[1-5] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Registration Information: Maximum of 5 credits allowed in course.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 795P Independent Study: Equine Lameness Credits: Var[1-5] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Registration Information: Maximum of 5 credits allowed in course.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 795S Independent Study: Epidemiology Credits: Var[1-5] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a Graduate, Graduate cooperative program, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 795T Independent Study: Human-Animal Bond Credits: Var[1-5] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Registration Information: Maximum of 5 credits allowed in course.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 796 Group Study-Medicine Credits: Var[1-18] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a Graduate, Graduate cooperative program, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 798 Research Credits: Var[1-18] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.

VS 799 Dissertation Credits: Var[1-18] (0-0-0)
Course Description:
Prerequisite: None.
Restriction: Must be a Graduate, Professional.
Terms Offered: Fall, Spring, Summer.
Grade Mode: Instructor Option.
Special Course Fee: No.