COMPARATIVE BIOSCIENCES (COMP BIO)

COMP BIO 500 — FUNDAMENTAL PRINCIPLES OF VETERINARY ANATOMY
5 credits.
A detailed consideration of gross anatomical structure with emphasis on major anatomical patterns present in species important to veterinary medicine. The dog is used as a model domestic mammal and comparisons with other species are considered. All body systems are dissected. Clinical implications of these dissections are emphasized.
Requisites: Declared in Veterinary Medicine program
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2017

COMP BIO 501 — VETERINARY HISTOLOGY
5 credits.
Comparative structural and functional aspects of cells and tissues will be examined. Mammalian histology will be stressed.
Requisites: Declared in Veterinary Medicine program
Repeatable for Credit: No
Last Taught: Fall 2017

COMP BIO 502 — MOLECULAR AND METABOLIC BASIS OF MEDICINE
3 credits.
This course covers metabolism with a more advanced incorporation of concepts of chemistry, cell biology and physiology. Clinical correlations in veterinary medicine are also covered.
Requisites: Vet Med st and BIOCHEM 501 or equiv, or cons inst
Repeatable for Credit: No
Last Taught: Spring 2017

COMP BIO 503 — VETERINARY DEVELOPMENTAL ANATOMY
2 credits.
Principles of development and organogeneses in domestic animals. Normal developmental patterns are related to adult anatomy. Clinical implications of common congenital defects are discussed.
Requisites: Declared in Veterinary Medicine program
Repeatable for Credit: No
Last Taught: Fall 2017

COMP BIO 505 — VETERINARY NEUROANATOMY AND NEUROPHYSIOLOGY
3 credits.
A comparative approach to the morphological and physiological properties of the central nervous system of animals, particularly those of veterinary importance.
Requisites: Declared in Veterinary Medicine program
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2017

COMP BIO 506 — VETERINARY PHYSIOLOGY B
4 credits.
The second semester of a two semester comprehensive course in comparative veterinary physiology covering digestive, endocrine, and reproductive systems.
Requisites: Declared in Veterinary Medicine program
Repeatable for Credit: No
Last Taught: Spring 2017

COMP BIO 550 — ANATOMY OF THE LARGE DOMESTIC ANIMALS
1-3 credits.
A dissection study of the horse and the ox with special emphasis on the anatomical specializations of these species. Extensive comparisons to the anatomy of the small domestic animals. Other large domestic animals will be considered as appropriate to demonstrate anatomical variation.
Requisites: Declared in Veterinary Medicine program
Repeatable for Credit: No
Last Taught: Spring 2017

COMP BIO 551 — VETERINARY PHYSIOLOGY A
4 credits.
The first semester of a two semester comprehensive course in comparative veterinary physiology covering electrophysiology, and muscle, cardiovascular, respiratory, renal and acid-base physiology.
Requisites: Declared in Veterinary Medicine program
Repeatable for Credit: No
Last Taught: Fall 2017

COMP BIO 555 — VETERINARY TOXICOLOGY
2 credits.
Science of toxicology as it relates to veterinary practice. The principles of toxicology and the mechanism and treatment of toxicants commonly encountered in small and large animals will be presented.
Requisites: Declared in Veterinary Medicine program
Repeatable for Credit: No
Last Taught: Spring 2017

COMP BIO 556 — VETERINARY PHARMACOLOGY
4 credits.
Basic pharmacology of various drug classes used in veterinary medicine together with examples of clinical drug use. Important species variations in drug use and drug response will be stressed.
Requisites: Comp Bio 552 or cons inst
Repeatable for Credit: No
Last Taught: Spring 2017

COMP BIO 675 — SPECIAL TOPICS
1-5 credits.
Topics vary.
Requisites: Cons inst
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2017
COMP BIO 699 — DIRECTED STUDY
1-5 credits.
Projects in the laboratory and/or through library work in specific subject area under the direct guidance of faculty member.
Requisites: Consent of instructor
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2017

COMP BIO 775 — EXTERNSHIP
1-24 credits.
This course is an elective for fourth year veterinary medical students which offers faculty coordinated experience in the veterinary medical profession outside the School.
Requisites: Vet Med st or cons inst
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2017

COMP BIO 990 — RESEARCH
1-12 credits.
Research.
Requisites: Consent of instructor
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2017