

## Anatomy & Physiology and DVM Course Descriptions

Course #	Cr. Hrs.	Year/Semester	Course Title	Course Description
AP 700	5	1 <sup>st</sup> /Fall	<b>Gross Anatomy I</b>	AP 700. Gross Anatomy I. (5) I. Gross dissection of the dog with comparative aspects of the cat. Two hours lec. and nine hours lab a week. Pr.: First-year standing in College of Veterinary Medicine or consent of the instructor.
AP 710	5	1 <sup>st</sup> /Fall	<b>Microanatomy I</b>	AP 710. Microscopic Anatomy I. (5) I. Origin, development, and microscopic structure and appearance of the cells and tissues of the animal body. Three hours lec. and six hours lab a week. Pr.: First-year standing in College of Veterinary Medicine.
AP 737	5	1 <sup>st</sup> /Fall	<b>Veterinary Physiology I</b>	AP 737. Veterinary Physiology I. (5) Function of the animal body at the cellular level, including nerve and muscle function. Basic pathophysiological mechanisms will be emphasized and correlated with clinical topics. Five hours lec. a week. Pr.: First-year standing in College of Veterinary Medicine or consent of instructor.
AP 730	1	1 <sup>st</sup> /Fall	<b>Cross-Course Integration I</b>	AP 730. Cross-Course Integration I. (1) I. Vertical and horizontal integration among semester courses to improve student cognitive retention and understanding of core content. Structure-function relationships will be emphasized to facilitate student assimilation and provide clinical relevance to basic science content. One hour lec. a week. Pr.: First-year standing in the College of Veterinary Medicine or consent of instructor.
AP 780	1	1 <sup>st</sup> /Fall	<b>Veterinary Medical Language Cognates and Etymology (Elective)</b>	AP 780. Veterinary Medical Language Cognates and Etymology (Elective). (1) A very basic, broad but not comprehensive introduction to the origin and meaning of words germane to a better understanding and recall of the vocabulary likely to be encountered by the veterinary student during the four year veterinary curriculum and subsequently used by the student as a graduate veterinarian. A non-grammatical approach to basic cognate recognition will be emphasized as the various roots and affixes (prefixes, suffixes and infixes) are encountered. The course should serve as a starting point in the development of a strong and flexible veterinary medical vocabulary. Pr.: Professional veterinary student standing or consent of instructor.
AP 780	1	1 <sup>st</sup> /Fall	<b>Three Dimensional Imaging Anatomy of the Dog (Elective)</b>	AP 780. Three Dimensional Imaging Anatomy of the Dog (Elective). (1) This course will emphasize the 3 <sup>rd</sup> dimension of anatomy that the student must understand to better interpret traditional two dimensional radiographs as well as the images generated by modern three dimensional imaging methods such as computerized tomography, magnetic resonance imaging and ultrasonography. There will be a very short introduction to these imaging methods, but the emphasis of this course will be the underlying three dimensional anatomy. Pr.: Professional veterinary student standing or consent of instructor.
AP 780	1	1 <sup>st</sup> /Fall	<b>History of Veterinary Medicine (Elective)</b>	AP 780. History of Veterinary Medicine (Elective). (1) To introduce students to the history of veterinary medicine in the United States and the world, the development of the early colleges of veterinary medicine, the contributions of some of the pioneers in veterinary medicine, the impact of animal diseases, and the evolving role of the veterinarian in society. One hour lec. a week. Pr.: Professional veterinary student standing or consent of instructor.
AP 780	1	1 <sup>st</sup> /Fall	<b>Practical Use and Interpretation of Veterinary Scientific Literature (Elective)</b>	AP 780. Practical Use and Interpretation of Veterinary Scientific Literature (Elective). (1) Designed primarily for veterinary students in the first, second or third year of the DVM curriculum. The course is intended to teach critical evaluation of clinical reports and research literature, as well as literature search and oral presentation skills. The format is small group and online discussion. Students are required to discuss and/or give a report on one assigned clinical case report or case study per week, and participate in online discussions and literature search assignments. One hour lec. a week. Pr.: Professional veterinary student standing or consent of instructor.
AP 705	6	1 <sup>st</sup> /Spring	<b>Gross Anatomy II</b>	AP 705. Gross Anatomy II. (6) II. Gross dissection of the horse and ruminant with comparative aspects of the pig, laboratory animals, and the chicken. Three hours lec. and nine hours lab a week. Pr.: AP 700.
AP 747	6	1 <sup>st</sup> /Spring	<b>Veterinary Physiology II</b>	AP 747. Veterinary Physiology II. (6) II. Function of the cardiovascular, endocrine, respiratory, renal, digestive, and reproductive systems of domestic animals with emphasis on physiologic control mechanisms, interrelationships of body systems, and criteria for evaluating animal health. Five hours lec. and three hours lab a week. Pr.: AP 737.

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AP 740	1	1 <sup>st</sup> /Spring	<b>Cross-Course Integration II</b>	AP 740. Cross-Course Integration II. (1) II. Vertical and horizontal integration within and between semester courses to improve student cognitive retention and understanding of core content. Structure-function relationships will be emphasized to facilitate student assimilation and provide clinical relevance to basic science content. One hour lec. a week. Pr.: AP 730 or consent of instructor.
AP 780	1	1 <sup>st</sup> /Spring	<b>Veterinary Comparative Embryology (Elective)</b>	AP 780. Veterinary Comparative Embryology (Elective). (1) An overview of development anatomy as it relates to clinically important developmental defects and/or normal structure and function of common domestic animals. One hour lec. a week. Pr.: Professional veterinary student standing or consent of instructor.
AP 780	2	1 <sup>st</sup> /Spring	<b>Veterinary Neuroscience (Elective)</b>	AP 780. Veterinary Neuroscience (Elective). (2) Study of the normal neuroanatomy, neurophysiology and introductory neuropharmacology of the central nervous system of common domestic mammals. One hour lec. and two hours lab a week. Pr.: Professional veterinary student standing or consent of instructor.
AP 780	1	1 <sup>st</sup> /Spring	<b>Behavior of Domestic Animals (Elective)</b>	AP 780. Behavior of Domestic Animals (Elective). (1) Introduction to the behavior of the different species of domestic animals, including normal and abnormal behavior, clinical disorders, separation anxiety, identification of dominant breeds, communication, socialization, and reproductive behavior. Invited speakers on special topics and field trips and proposed; one trip includes a Saturday. One hour lec. a week. Pr.: Professional veterinary student standing or consent of instructor.
AP 780	1	1 <sup>st</sup> /Spring	<b>Special Interest Anatomy for Veterinary Students (Elective)</b>	AP 780. Special Interest Anatomy for Veterinary Students (Elective). (1) A two hour dissection lab which will allow the student to explore more deeply the gross anatomy of a particular species of interest or across species a particular region of the body of interest. Dissection of specimens other than the canine will require the student to make prior arrangements with the instructor to schedule a semester when materials and specimens are available. Two hours lab. a week. Pre: Currently enrolled CVMKSU student with at least one semester of AP 700 Gross Anatomy I experience.
AP 770	4	2 <sup>nd</sup> /Fall	<b>Pharmacology I</b>	AP 770. Pharmacology I. (4) I. The basic principles of pharmacology, the interaction of drugs and living systems including fundamental principles of pharmacokinetics, pharmacodynamics, receptor-coupling, and mechanisms of action. A system-bases approach to drug classes will be emphasized. Four hours lec. a week. Pr.: AP 737 and 747 or equiv.
AP 772	2	2 <sup>nd</sup> /Spring	<b>Pharmacology II</b>	AP 772. Pharmacology II. (2) II. The basic principles of Pharmacology, the relationship of drug actions and interactions on physiological principles and pathophysiological conditions. Pharmacokinetics, pharmacodynamics, and a system-based approach to drug classes will be emphasized. Two hours of lec. A week PR.: AP770.
DVM 700	0	1 <sup>st</sup> /Fall	<b>Veterinary Orientation</b>	DVM 700. Veterinary Orientation I. (1) Introduction to career opportunities in veterinary medicine.
DVM 701			<b>Ethics and Jurisprudence</b>	DVM 701. Ethics and Jurisprudence (1) II. Socratic ethics are discussed along with the American Veterinary Medical Association's Code of Ethics and practical situations with a fundamental ethical basis. The Kansas Practice Act is explored as an example of governance in veterinary medicine. The role of animals in humans' well being is addressed along with the philosophy of animal welfare. The law and the practicing veterinarian are discussed with emphasis upon professional liability. PR: First year standing in College of Veterinary Medicine.