Animal Science	14-15	15-16	16-17	17-18	18-19	19-20
ANSCB1 - Introduction to Animal Science						
Upon completion the student will be able to: Describe economically significant breeds of animals and their unique adaptations.		Х				
Upon completion the student will be able to: Discuss nutritional needs of animals and for various body functions.		Х				
Upon completion the student will be able to: Identify animal contributions to the development of human civilizations.		Х				
Upon completion the student will be able to:Describe the function of the major body systems.			Х			
Upon completion the student will be able to: Identify reproductive cycles and biotechnological principles of animal reproduction.			Х	Х		
Upon completion the student will be able to: Analyze genetic change through artificial/natural selection.			Х	Х		
Upon completion the student will be able to:Describe animal behavior as it relates to animal domestication, health and performance.			Х	Х		
Upon completion the student will be able to: Explain basic strategies for disease control, prevention and management.			Х			
Upon completion the student will be able to:Utilize the scientific method to collect data, calculate production parameters and make     scientifically-based management decisions					Х	
Upon completion the student will be able to:Identify and discuss current issues affecting animal agriculture.					Х	
ANSCB2 - Beef Production						
• Upon completion the student will be able to: Explain the history and development of Bos Taurus and Bos Indicus cattle and the modern breeds.				Х		
• Upon completion the student will be able to: Design a plan for establishing and managing a breeding herd of purebred or commercial cattle.				Х		
• Upon completion the student will be able to: Recognize desirable conformation/selection traits in 3 classes of cattle: replacement heifers, market				Х		
Upon completion the student will be able to: Estimate weights and age of market cattle.				Х		
Upon completion the student will be able to: Develop a herd health management program				Х		
ANSCB3 - Sheep Production						
• Upon completion the student will be able to: Identify a minimum of eight common breeds of sheep and discuss in a group setting.					Х	
Analyze sheep by production data and live appraisal.					Х	
Perform basic scientific management procedures such as docking, castration, and shearing.					Х	
Identify cultural contributions and ethnic influences on the sheep industry.					Х	
List common diseases and parasites and their control.					Х	
ANSCB4 - Dairy Production						
Upon completion the student will be able to:Distinguish between the major dairy cattle breeds, and recall the origin, adaptation and production of each breed.					Х	
Upon completion the student will be able to: Identify the anatomical parts of the cow and relate each part to its form and function.					Х	
• Upon completion the student will be able to: Define the nutritional needs and demonstrate proper feeding techniques of dairy cattle.					Х	
Upon completion the student will be able to: Demonstrate proper management skill involving dehorning, vaccinating, castrating, hoof trimming and teat removal of dairy cattle.					Х	

Animal Science	14-15	15-16	16-17	17-18	18-19	19-20
ANSCB5 - Swine Production						
Identify common breeds of swine and list their respective economically important strengths.					Х	
Identify anatomical features of swine.					Х	
Analyze the most important swine diseases and parasites as well as the principles of their control including prevention and treatment.					Х	
Discuss nutrient requirements and feeding programs for various stages of swine production.					Х	
ANSCB6 - Applied Animal Nutrition						
• Upon completion the student will be able to: Identify and describe the characteristics of commonly used feed ingredients for diet formulation.		Х				
Calculate and formulate concentrations & amounts of nutrients in rations and feed mixes.		Х				
Discuss the impact of feed processing on nutrient utilization by livestock.		Х				
Read and interpret feed tags and laboratory analyses of diet/feed ingredients.		Х				
Describe the general changes in nutrient requirements that occur throughout the life-cycle of beef cattle, dairy cattle, and swine.		Х				
ANSCB7 - Animal Diseases						
Upon completion the student will be able to:Differentiate between passive and active immunity.					Х	
Administer subcutaneous and intramuscular injections.					Х	
Diagnose disease(s), given clinical symptoms.					Х	
Treat bovine pinkeye.					Х	
Debate usage of antibiotics in food animal production.					Х	
Diagram the lifecycle of 5 common internal parasites.					Х	
ANSCB10 - Horse Production	•					
Upon completion the student will be able to:Demonstrate knowledge of practical equine reproductive management.					Х	
Demonstrate knowledge of common horse parasites, their role in disease processes, and their control.					Х	
• List common infectious diseases and explain the role of preventive health and vaccination programs. Demonstrate skill in administering IM, SubQ, IV					Х	
Explain the basic principles of digestion and design a practical ration for various stages of production in the equine.					Х	
Demonstrate a basic understanding of horse behavior in different surroundings.					X	
Demonstrate ground safety while performing routine basic health and grooming tasks.					X	
• Explain the role of the horse in the development of civilization world-wide and the current contributions of the horse to society. • Identify eight common breeds of horses and assess the selection pressures involved in the development of each breed. •Demonstrate an understanding of conformation with respect to the horse's motion and intended use. •Relate form to function with regards to equine anatomy. •Demonstrate a basic understanding of horse behavior in different surroundings • Demonstrate ground safety while performing routine basic health and grooming tasks. •Identify career opportunities in the equipe industry.					X	

Animal Science	14-15	15-16	16-17	17-18	18-19	19-20
ANSCB11 - Livestock Selection/Evaluation						
Upon completion the student will be able to:Identify common breeds of livestock.		Х				
Analyze the process of meat animal growth, development and finishing		Х				
Demonstrate how to combine visual subjective evaluation with objective methods of evaluation (production records, etc.).		Х				
List traits that cannot be greatly altered through selective breeding including Identification of traits and factors that affect carcass quality and yield     arades		Х				
• Define traits needing improvement in a breeding herd and identify traits most economically important.					Х	
Describe and compare animals with proper livestock terminology in both oral and written form. (AKA Defend with reasons)					Х	
Organize classes of live animals based on economically important traits.					Х	
· Identify external, anatomical features of livestock and anatomical points on the live animal analogous to the areas of the carcass.					X	
· Identify external, anatomical features of livestock and anatomical points on the live animal analogous to the areas of the carcass.					X	
ANSCB22 - Animals and Society						
Upon completion the student will be able to:Demonstrate fundamental concepts linking animals and people in geography.					Х	
Describe how these are concepts are manifest in different spaces, places and environments.					Х	
Demonstrate skills in problem definition					Х	
Interpret and data to determine the impact and interactions between animals and people					Х	
ANSCB83 - Introduction to Veterinary Technology						
Upon completion the student will be able to:Identify anatomical parts and explain their physiology for common large and small					Х	
Explain office management procedures and protocols, including record keeping and					v	
customer service. Master resume writing and job interview skills.					~	
Demonstrate appropriate procedures for receiving and returning patients to clients for     discharge appropriate procedures for receiving and returning the set of the set					Х	
aischarde, answering common billing and post visit care with client.						
examinations procedures including surgical and emergency situations and in patient					х	
interaction.					~	
Demonstrate understanding of basic biology, including cell structure and genetic					v	
principles, and basic principles of chemistry needed to succeed in a RVT career.					^	
ANSCB84 - Small Animal Diseases						
Upon completion the student will be able to: Identify normal and abnormal vital statistics for specific animal species. (RPT)					Х	
Describe proper handling and restraint techniques for small animal species.					Х	
Discuss common etiology and clinical evidence of diseases.					Х	
Determine and distinguish appropriate husbandry and prevention programs needed to reduce incidence of diseases.					X	
Identify zoonotic diseases and specific therapies pertaining to these diseases.					X	
Communicate and relate with clients regarding post treatment care as determined by the veterinarian.					X	

Animal Science	14-15	15-16	16-17	17-18	18-19	19-20
ANSCB85 - Large Animal Diseases						
• Upon completion the student will be able to: Identify normal and abnormal vital statistics for specific large animal species (emphasis on farm animals).					Х	
Describe proper handling and restraint techniques for large animal species.					Х	
Discuss common etiology and clinical evidence of diseases.					Х	
Determine appropriate husbandry, nursing and prevention programs needed to reduce incidence of diseases.					Х	
<ul> <li>Identify zoonotic diseases and specific therapies pertaining to those diseases.</li> </ul>					Х	
Communicate with clients regarding post treatment care as determined by the veterinarian.					Х	
ANSCB86 - Pharmacology for Veterinary Technician						
Upon completion the student will be able to:Stock pharmaceutical supplies and control their inventories.					Х	
Reconstitute medications and calculate dosages of prescribed medications.					Х	
Package, label and dispense prescription drugs.					Х	
Identify specific pharmaceutical agents.					Х	
Master Intramuscular, Subcutaneous, and Intramuscular methods of administration.					Х	
ANSCB88 - Surgery, Dental, Anesthesilogy for Veterinary Technicians						
Upon completion the student will be able to: Able to determine appropriate instrumentation for specific procedures. and identify, prepare, and care for survival instruments.					Х	
Ability to analyze surgical process and properly drape animals for surgery.					Х	
• Evaluate surgical and dental procedures and demonstrate knowledge of surgical and dental prophylaxis procedures performable by RVTs.					Х	
Compare anesthetic agents, instruments, equipment, and monitoring procedures and select appropriate ones for various situations.					Х	
Be able to provide pain management and post surgical care.					Х	
Be able to instruct clients in proper pre and post surgical care.					Х	
Close incisions by various methods.					Х	
ANSCB90 - Emergency Medicine, Surgery/Nursing Procedures for Veterinary Technicians						
Upon completion the student will be able to: Differentiate between emergency and non-emergency situations.					Х	
Use triage techniques to properly handle patients.					Х	
Evaluate and provide supportive therapy techniques.					Х	
Compare drugs used in emergency practice, including dosage, routes of administration, and adverse effects.					Х	
Choose appropriate agents.					Х	
Understand surgical and medical techniques.					Х	
• Evaluate case situation, determine appropriate action, inform and instruct clients with information relating to post emergency care.					Х	
Calculate dosages for medications and fluid therapy.					Х	

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ANSCB92 - Clinical Pathology for Veterinary Technicians				
Upon completion the student will be able to: Identify bacterial and fungal pathogens.			Х	
Identify ectoparasites			Х	
Compare normal and abnormal cells and substances in cytology and urinalysis.			Х	
Examine normal and abnormal blood values.			Х	
Perform routine clinical blood counts and evaluate sample results			Х	
Be able to perform post-mortem exam and evaluate findings.			Х	
Be able to collect, handle, store, and ship samples for laboratory workups.			Х	
ANSCB94 - Caged Birds, Laboratory, and Exotic Animal Medicine				
Upon completion the student will be able to:Compare and contrast normal and abnormal anatomy and physiology.			Х	
Identify and compare various exotic species.			Х	
Demonstrate knowledge of techniques to properly restrain various exotic species.			Х	
Demonstrate knowledge of techniques to perform and evaluate physical exams on various exotic species.			Х	
Explain procedures to collect specimens for laboratory tests from various exotic species.			Х	
Demonstrate knowledge, discernment, and application of laws pertaining to ownership of exotics.			Х	
ANSCB96 - Radiology, Ultrasound, and Diagnostic Imaging for Veterinary Technology				
• Upon completion the student will be able to: Analyze knowledge of and ability to apply regulations regarding radiation and radiology safety (including			Х	
Compare and contrast various manual, mechanical, and chemical restraints for diagnostic imaging.			Х	
• Evaluate and demonstrate knowledge of procedures to prepare patients for imaging (e.g., radiography and ultrasonography), to safely obtain			X	
diagnostic images; to process radiographic film, and to maintain imaging equipment.  • Evaluate radiographs, ultrasound, and electrocardiograms.			×	
Analyze, discern and apply positioning techniques for properly performing imaging procedures.			A X	