

Discipline: Agriculture	Sub-discipline: Animal Science
General Course Title: <b>Animal Health and Sanitation</b>	Min. Units: <b>3 Semester</b>
Proposed Suffix: <b>L</b>	
<p>Course Description:  The study of common livestock diseases and fundamentals of immunity; includes the livestock technician's role in promoting animal health and the foundation of disease control programs.</p>	
Required Prerequisites or Co-Requisites <sup>1</sup>	
Advisories/Recommended Preparation <sup>2</sup>	
<p>Course Objectives: <i>At the conclusion of this course, the student should be able to:</i></p> <ul style="list-style-type: none"> <li>• Describe the importance of promoting livestock health.</li> <li>• Identify career opportunities in the animal health industry</li> <li>• Demonstrate and understand the role animal behavior plays in individual and herd health.</li> <li>• Identify the cultural influences that have led to animal health advancements.</li> <li>• Identify common diseases and determine appropriate treatment regimen.</li> <li>• Differentiate between pathogenic and non-pathogenic disease.</li> <li>• Identify environmental factors contributing to disease.</li> <li>• Appraise and identify physiological changes which alter susceptibility to various health problems.</li> <li>• Name and demonstrate proper use of equipment that humanely confines, treats or protects livestock.</li> <li>• Explain basic principles of biosecurity, including disease prevention programs.</li> <li>• List regulations of transport for health.</li> <li>• Analyze an operational scenario and formulate a preventative program.</li> <li>• Have reasonable accommodations made to perform all learning objectives regardless of physical and/or learning disabilities.</li> <li>• List common diseases in U.S. livestock production and established control programs.</li> </ul>	
<p>Course Content:</p> <ol style="list-style-type: none"> <li>1. Introduction and Overview <ol style="list-style-type: none"> <li>a. Historical concepts</li> <li>b. Causative agents of disease</li> <li>c. Methods of transmission</li> <li>d. Principles of prevention <ol style="list-style-type: none"> <li>(1) Disinfecting</li> </ol> </li> <li>e. Body defense mechanisms</li> <li>f. Immunity - classified</li> <li>g. Predisposing disease factors</li> </ol> </li> </ol> <p><b>Animal Health and Sanitation (Content Continued)</b></p> <ol style="list-style-type: none"> <li>2. Anatomy and Physiology</li> </ol>	

<sup>1</sup> Prerequisite or co-requisite course need to be validated at the CCC level in accordance with Title 5 regulations; co-requisites for CCCs are the linked courses that must be taken at the same time as the primary or target course.

<sup>2</sup> Advisories or recommended preparation will not require validation but are recommendations to be considered by the student prior to enrolling.

<ul style="list-style-type: none"> <li>a. Body system and primary system disease <ul style="list-style-type: none"> <li>(1) Endocrine</li> <li>(2) Reproductive</li> <li>(3) Digestive</li> <li>(4) Circulatory</li> <li>(5) Urinary</li> <li>(6) Respiratory</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>3. Parasites <ul style="list-style-type: none"> <li>a. Symptoms, lifecycles and controls <ul style="list-style-type: none"> <li>(1) Enteroparasites</li> <li>(2) Ectoparasites</li> </ul> </li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>4. Restraint <ul style="list-style-type: none"> <li>a. Restraint types <ul style="list-style-type: none"> <li>(1) Passive restraint</li> <li>(2) Active restraint</li> </ul> </li> </ul> </li> </ul>	
<p>Laboratory Activities: Individual Laboratory Activities are designed to support course objectives.</p>	
<p>Methods of Evaluation: Lecture Comprehensive Quizzes and Exams Written Critical Thinking Scenarios Problem Analysis and Solution Research and Term Papers</p>	<p>Methods of Evaluation: Laboratory Laboratory Skill Validation by Observation Laboratory Reports Laboratory Research Projects and Reports Laboratory Skill Practicum Exams</p>
<p>Typical Textbooks, Manuals, or Other Support Materials</p> <p style="padding-left: 40px;"><u>Animal Sanitation and Disease Prevention 2<sup>nd</sup> ed.</u>, Berrier, Harry H., Kendal and Hunt Publishing, ISBN 0-8403-1726-3 Readability 11.9</p> <p style="padding-left: 40px;"><u>Preventative Veterinary Manual 4<sup>th</sup> ed.</u>, Schipper, I.A., Minneapolis: Burgess Publishing Company, Readability 10.5-13.8</p> <p style="padding-left: 40px;"><u>The Merck veterinary Manual 5<sup>th</sup> ed.</u>, Editorial Board, Merck and Company, Inc., ISBN 911910-52-2 Readability level 16+</p> <p style="padding-left: 40px;"><u>Animal Health 2<sup>nd</sup> ed.</u>, Greer/Baker, Interstate Publishers ISBN 0-8134-2909-9</p>	
<p><b>Statewide Articulation: CPP-AVS 201, CSUF-A SCI 65, CSUC-ANSC 160, other universities as lower division elective</b></p>	
FDRG Lead Signature:	Date:
Mark E. Bender, PhD CSU Stanislaus	
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