Imperial Valley Regional Occupational Program 687 State Street, El Centro, CA 92243 (760) 482-2600 • Fax (760) 482-2751 • Website: www.ivrop.org • Email: info@ivrop.org Course Title: Vet Science Instructor: Emilee Callens Hours:

Major Units of Instruction	Key Assignments/	Standards	Academic / Common
Ag/Natrual Resources Sector – (D) Animal Science Pathway	Common Assessments	(Anchor / Pathway)	Core Standards
	· · · · · · · · · · · · · · · · · · ·	·	•
 Essential Employability / Career Preparation Skills Understand how personal skill development affect employability (positive attitude, honesty, self-confidence, time management) Understand principles of effective interpersonal skills (group dynamics, conflict resolution negotiations) Understand occupational safety issues and observes all safety rules Understand career awareness, paths and strategies for obtaining 	 IVROP Common Assessments: 1. Oral Presentation Assignment, 2. Application and Resume Assignment(s) Portfolio 	2.0 Comm. 3.0 Career Planning & Management CC3.6 CC 8.0	LS 9-10, 11-12.6 SLS 11 – 12.2
employment g. Understand and adapt to changing technology h. Understand and prepare for employment (resume, job application, job interview, portfolio development) – job search skills		CC 9.0 B 1.0 CC 10.0	
2 ANATOMY OF PHYSIOL			
a. Demonstrate the ability to be a leader and describe the qualities that			
effective leaders should possess 9.1			
b. Be familiar with parliamentary procedure 9.2			
c. Have a working knowledge of how to prepare and give a speech 2.4 (2.2))			
d. Identify the qualities that an employee should posses and how to			
e Identify the attitude and behavior of healthy animals D9 1			
f. Monitor the temperature, pulse, and respiration of animals, and			
compare the monitored animal to that of a normal			
g. Write an essay on the disease concept of animal health 2.2, D6.0 (all)			
h. Demonstrate the need for a balanced diet in animal production by balancing a ration D2.0. D10.0			
i. Design a housing facility for a small and large animal that provides for a healthy environment $D10.1$			
j. Distinguish between sound and unsound animal disease management			
Lectiniques <i>Do.U</i>			
animal's environment by taking bacterial cultures and analyzing			
Inem			
tissue by microscope observation			
m. Differentiate among the functions of the digestive, circulatory,			
respiratory, and excretory systems			
n. Distinguish between living an non-living causes of disease in animals			
o. Identify life cycles of bacteria, fungi, virus, and protozoa D6.0			
p. Classify the various means by which diseases are spread in an			

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		(i inonici y i danitaj)	
environment D6.0			
 Cite the way in which an animal develops resistance and immunity to 			
nathogenic organisms D6.0			
r. Contrast the primary and secondary defense mechanisms of an			
animal's hody			
a Final 5 body			
s. Explain now a change in environmental conditions might aller the arouth of a bactorium D6.0			
yrowiii or a bacteriuiii <i>Do.0</i>			
t. Outline a continuon method by which a producer could control diseases			
Lauseu Dy a pail asile D0.0 U. Be able to identify the major paracites that affects animals D6.3			
V. Prenare a written report on an animal disease $2.2/2.3$ D6.0			
w Identify the differences between ticks fleas mites flies and lice			
x. Develop a method top control external parasites taking into			
consideration D6.0			
v Outline a viable program for internal parasite management in small			
and large animals <i>D6.0</i>			
z. Explain the importance of proteins, vitamins, and minerals as they			
relate to tissue building by nutritional experiment D2.0			
aa. Discriminate between symptoms of poisoned animals and that of			
parasitized animals D6.0			
bb. Calculate the proper dosage of medication to be prescribed by large			
or small animals			
cc. Identify environmental, nutritional, and pathogenic stressors that			
might lower and animal's resistance to diseases D6.0			
dd. Develop a management technique for receiving young transported			
animals			
ee. Be familiar with the make-up of the FFA Program of Activities and			
serve as a committee member on at least 3 major activities			
throughout the semester			
IV. METHODS OF EVALUATION			
a. Lectures, Testing, Class Participation, Labs, and Homework			
i. Students will be given objective tests on a regular basis. These			
will require students to retain, interpret, and apply ideas and			
information taught in each unit.			
ii. Students will be assigned regular laboratory exercises. These will			
reinforce ideas and information conveyed by the instructor to			
the students.			
iii. Students will be given quizzes and will utilize problem-solving			
methods			

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iv. Students will be given a comprehensive written final examination			
at the end of the semester to include a lab practicum portion			
v. The students will be responsible for extensive reading in the			
textbook and completing a variety of assignments as			
determined by instructor			
vi. Students will do extensive outside work preparing animal pens.			
working with animals, animals and facilities on a weekly basis.			
A weekly participation score for these activities will be given. If			
the student does not do the work assigned outside they will not			
receive credit.			
vii. Students are responsible for bringing a covered textbook, paper,			
pen, and pencil with them every day to class. Students will be			
awarded 5 points per day for coming to class prepared, failure			
to bring materials to class will result in losing these points. In			
addition, students will lose these points if their absences are			
unexcused, or tardy.			
viii. Students will be responsible for having their school agenda's with			
them on a daily basis. Students will write down the days			
assignments/homework every day from the board before class			
begins a score of 5 points a day will be given for agenda's			
ix. Weekly class participation points will be earned by the student.			
V. PROJECTS (all standards)			
a. The student will be responsible for several assignments throughout			
each semester. Some of these will include:			
I. Fetal Lamb, and Horse dissection, Necropsy on Pig, Lambs, and			
Callie, various tasks such as shots, temp., nooi trimming,			
stitches, ear tagging.			
II. Tetti papel III. Loadorchin Drojecto			
III. Leavel SIIP Flujeus			
v. In depin laboratory science investigations in the classroom			
v. Outdoor Ay. Science Lab activities			
a A Fach student enrolled in Agricultural course is automatically a			
member of the Imperial FEA Chanter. Because the state provides			
funding for this Agriculture course, all students are required to			
participate in a minimum of 6 FFA activities every semester. Extra			
credit will be awarded for each additional activity beyond the			

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Major Units of Instruction Ag/Natrual Resources Sector – (D) Animal Science Pathway	Key Assignments/ Common Assessments	Standards (Anchor / Pathway)	Academic / Common Core Standards
minimum			
TOTAL			

Cross-Cutting Anchor Standards and Related Common Core Standards - Detailed version for each Industry Sector available at link on IVROP web page.	
1. Academics (Analyze and apply appropriate academic standards for industry sector).	See Matrix for Pathway
2. Communications (Acquire and accurately use sector terminology and protocols at the career and college readiness level for communicating effectively)	LS 9-10, 11-12.6
3. Career Planning and Management (Integrate multiple sources of career information from diverse formats to make informed career decisions)	SLS 11-12.2
4. Technology (Use existing and emerging technology to investigate, research, and produce products and services)	WS 11-12.6
5. Problem Solving and Critical Thinking (Conduct short and sustained research to create alternative solutions to solve a problem using critical & creative thinking)	WS 11-12.7
6. Health and Safety (Demonstrate health and safety procedures, regulations, and personal health practices and determine the meaning of symbols, key terms)	RSTS 9-10, 11-12.4
7. Responsibility and Flexibility (Initiate/participate in a range of collaborations demonstrating behaviors that reflect personal and professional responsibility & flexibility)	SLS9-10, 11-12.1
8. Ethics and Legal Responsibilities (Practice professional, ethical, and legal behavior, responding thoughtfully)	SLS 11-12.1d
9. Leadership and Teamwork (Work with peers to promote divergent and creative perspectives, leadership, group dynamics)	SLS 11-12.b1
10. Technical knowledge and Skills (Apply essential technical knowledge and skills)	WS 11-12.6

11. Demonstration and Application (Demonstrate and apply the Knowledge and skills contained in the Industry anchor and pathway standards in classroom, laboratory, and workplace settings and through CTSO's career and technical student organizations).