

ANIMAL HEALTHCARE**INDUSTRY SECTOR:** Agriculture and Natural Resources Sector**PATHWAY:** Animal Science**CALPADS TITLE:** Intermediate Animal Science (Concentrator)**CALPADS CODE:** 7141**HOURS:**

Total	Classroom	Laboratory/CC/CVE
108	108	0

JOB TITLE	O*NET CODE	JOB TITLE	O*NET CODE
Veterinarians	29-1131.00	Animal Scientists	19-1011.00
Veterinary Technologists and Technicians	29-2056.00	Veterinary Assistants and Laboratory Animal Caretakers	31-9096.00

COURSE DESCRIPTION:

This class is designed for students who have a technical interest in animals and want to explore careers and acquire the technical and interpersonal skills necessary to work in entry-level positions within the veterinary science field. Topics include careers in animal health, safety, animal behaviors, proper restraint and handling, species and breeds, anatomy and physiology, terminology, common diseases, and nutrition.

A-G APPROVAL: No**ARTICULATION:** None**DUAL ENROLLMENT:** None**PREREQUISITES:**

Prerequisite
None

METHODS OF INSTRUCTION

- Direct instruction
- Group and individual applied projects
- Multimedia
- Demonstration
- Field trips
- Guest speakers

STUDENT EVALUATION:

- Student projects
- Written work
- Exams
- Observation record of student performance
- Completion of assignment

INDUSTRY CERTIFICATION:

- None

RECOMMENDED TEXTS:

- The Dog Breed Bible, SPI Edition. 2016
- McCurnin's Clinical Text for Veterinary Technicians 8th Edition 2014

PROGRAM OF STUDY

Grade	Fall	Spring	Year	Course Type	Course Name
12				Concentrator	Animal Healthcare
12				Capstone	Animal Healthcare Internship

I.	INTRODUCTION AND ORIENTATION	CR	Lab/ CC	Standards
	• Demonstrate awareness of course objectives and competencies • Understand course requirements and student expectations	1	0	Academic: RLST: 11-12.4, 9-10.4 WS: 11-12.4 CTE Anchor: Responsibility and Flexibility: 7.2, 7.4, 7.7 CTE Pathway: D1.3
II.	THE ANIMAL HEALTH CARE INDUSTRY	CR	Lab/ CC	Standards
	• Demonstrate an awareness of industry standards • Understand the impact of errors and misuse of resources on an organization's financial status • Identify career entry opportunities • Understand career paths and strategies for obtaining employment • List personal qualifications	6	0	Academic: RLST: 11-12.3 WS: 9-10.4 CTE Anchor: Career Planning and Management: 3.1, 3.4, 3.6 CTE Pathway: D1.3
III.	WORKPLACE SAFETY	CR	Lab/ CC	Standards
	• Understand occupational safety issues and observe all safety rules • Identify fire and disaster procedures • Identify hazards in the workplace that cause accidents • Respond to emergency situations	8	0	Academic: RLST: 11-12.3 CTE Anchor: Health and Safety: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7 CTE Pathway: D1.3
IV.	TERMINOLOGY	CR	Lab/ CC	Standards
	• Analyze suffixes, prefixes, and root words used in medical terminology • Apply knowledge of Latin abbreviations used in animal health care	12	0	Academic: RLST: 11-12.4, 9-10.7 WS: 11-12.4 CTE Anchor: Communications: 2.4, 2.5 Technical Knowledge and Skills: 10.1, 10.4 CTE Pathway: D1.3, D6.2
V.	SPECIES AND BREEDS	CR	Lab/ CC	Standards

	• Identify common breeds of dogs, cats, and birds • Recognize body standards in AKC dogs and CFA cats	12	0	Academic: WS: 11-12.4, 11-12.9, 9-10.9 CTE Anchor: Communications: 2.5 Technical Knowledge and Skills: 10.1 CTE Pathway: D6.2, D6.1
VI.	ANIMAL REPRODUCTION	CR	Lab/ CC	Standards
	• Understand animal conception • Discuss the animal gestation process • Recognize differences between purebred and crossbred • Understand the concepts of spaying and neutering	5	0	Academic: SEP: 7, 8 LS: LS1.A, LS1.B CTE Anchor: Communications: 2.5 Technology: 4.3 Technical Knowledge and Skills: 10.1 CTE Pathway: D4.1, D4.2, D4.3, D4.5, D5.1, D5.2, D5.3
VII.	HANDLING AND RESTRAINING	CR	Lab/ CC	Standards
	• Approach, handle and properly restrain animals (dogs, cats, reptiles, and birds) • Describe, demonstrate, and utilize appropriate methods of restraint including chemical, physical, psychological, and mechanical restraints • Use equipment and instruments necessary for the handling of and caring for animals	7	0	Academic: RLST: 9-10.3 LS: LS1.A CTE Anchor: Technology: 4.7 Problem Solving and Critical Thinking: 5.2 CTE Pathway: D1.3, D6.2
VIII.	ANIMAL BEHAVIOR AND OBSERVATION	CR	Lab/ CC	Standards
	• Differentiate between normal and abnormal behavior in the various stages of animals' lives • Explain two primary types of behavior categories • Events • States • Understand the importance of data collection • Follow proper data documentation protocols	6	0	Academic: RLST: 9-10.3 SEP: 8 LS: LS1, LS1.B CTE Anchor: Communications: 2.1, 2.3 Problem Solving and Critical Thinking: 5.2 Technical Knowledge and Skills: 10.1 CTE Pathway: D1.3, D6.1, D6.2, D9.1, D9.2, D9.3

IX.	HUMAN-ANIMAL BOND	CR	Lab/ CC	Standards
	- Describe the impact of companion animals on humans - Explain the emotional, psychological, and physical interactions of people, animals, and the environment	3	0	Academic: RLST: 11-12.4, 9-10.4 SEP: 8 LS: LS1, LS1.D CTE Anchor: Communications: 2.1, 2.3 Technical Knowledge and Skills: 10.1 CTE Pathway: D1.3, D6.1, D6.2, D9.1
X.	BASIC NUTRITION	CR	Lab/ CC	Standards
	- Explain the role of essential nutrients in animal health - Explain the types of special diets and the appropriate uses of each - Understand the body condition score	2	0	Academic: WS: 11-12.4 SEP: 4, 5 LS: LS1.B CTE Anchor: Problem Solving and Critical Thinking: 5.1, 5.4 CTE Pathway: D2.1, D2.2, D2.3, D2.4, D3.2, D3.3
XI.	COMMON DISEASES	CR	Lab/ CC	Standards
	- Recognize common parasites - Explain canine and feline diseases - Identify zoonotic diseases and methods of disease prevention and immunology	9	0	Academic: WS: 9-10.4 LS: LS1.B, LS1.A, LS1.C CTE Anchor: Communications: 2.1 Problem Solving and Critical Thinking: 5.4 Technical Knowledge and Skills: 10.1 CTE Pathway: D6.4, D6.6, D6.7, D6.2, D6.3, D6.1
XII.	VITAL SIGNS	CR	Lab/ CC	Standards
	- Explain the purpose of vital signs - Define factors affecting vital signs - Explain normal ranges - Analyze methods of measurement - Demonstrate taking temperature, pulse, and respiration - Recognize abnormalities - Document vital signs	3	0	Academic: RLST: 11-12.3 WS: 11-12.7 A-CED: 1 G-CO: 12 SEP: 5 LS: LS1, LS1.A

	Develop an understanding of the importance of that signs per procedure			CTE Anchor: Problem Solving and Critical Thinking: 5.4 Technical Knowledge and Skills: 10.1 CTE Pathway: D1.3, D3.3, D6.1, D6.2
XIII.	ANATOMY AND PHYSIOLOGY	CR	Lab/CC	Standards
	• Demonstrate a basic understanding of small animal anatomy and physiology • Describe the major function, list the organs and their function for each of the systems listed below: • Musculoskeletal system • Respiratory system • Circulatory system • Nervous system • Gastrointestinal • Urinary • Reproductive	10	0	Academic: RLST: 11-12.4 SEP: 8 LS: LS1, LS1.A, LS1.B, LS1.C CTE Anchor: Problem Solving and Critical Thinking: 5.4 Technical Knowledge and Skills: 10.1 CTE Pathway: D3.3, D3.1, D3.2
XIV.	LABORATORY SKILLS	CR	Lab/CC	Standards
	• Use equipment and instruments necessary for performing in-house testing • Demonstrate an understanding of tests for Parvo, FELV, FIV, and Heartworm • Demonstrate the importance of documenting findings properly • Understand the record keeping procedure	2	0	Academic: RLST: 9-10.3 SEP: 8 LS: LS1, LS1.A CTE Anchor: Problem Solving and Critical Thinking: 5.4 Technical Knowledge and Skills: 10.1 CTE Pathway: D3.1, D3.3, D6.1, D6.2, D6.3
XV.	CLEANING AND SANITATION	CR	Lab/CC	Standards
	• Understand the guidelines for cleaning and sanitation • Describe the methods, products, and equipment used • Practice sanitation and disinfection safety procedures	3	0	Academic: RLST: 11-12.3 CTE Anchor: Health and Safety: 6.1, 6.2, 6.4, 6.5 Technical Knowledge and Skills: 10.1 CTE Pathway: D6.2, D6.3, D6.1
XVI.	GROOMING	CR	Lab/CC	Standards

	• Describe the responsibilities of a grooming assistant/bather • Describe routine bathing and grooming • Recognize skin conditions	3	0	Academic: RLST: 11-12.3 LS: LS1.A, LS1 CTE Anchor: Communications: 2.3, 2.4 Problem Solving and Critical Thinking: 5.2 Health and Safety: 6.1, 6.2, 6.3, 6.4, 6.5 Technical Knowledge and Skills: 10.1 CTE Pathway: D1.1, D1.2, D1.4, D6.3, D6.2, D9.1
XVII.	KENNELS	CR	Lab/CC	Standards
	• Demonstrate an understanding of the responsibilities of a kennel attendant • Demonstrate an understanding of special diets	2	0	Academic: RLST: 9-10.3 LS: LS1.A CTE Anchor: Communications: 2.3, 2.4 Health and Safety: 6.3, 6.4 Responsibility and Flexibility: 7.2 Technical Knowledge and Skills: 10.1 CTE Pathway: D1.2, D1.1, D1.3, D2.4, D9.1
XVIII.	EMPLOYMENT LITERACY	CR	Lab/CC	Standards
	• Identify available positions in the industry through networking or the Internet • Complete an application form correctly • Prepare a written resume • Participate in a simulated employment interview	6	0	Academic: RLST: 9-10.4 CTE Anchor: Communications: 2.2, 2.3 Career Planning and Management: 3.1, 3.2, 3.4, 3.5 CTE Pathway: D1.3
XIX.	PERSONAL SKILLS RELATED TO EMPLOYMENT	CR	Lab/CC	Standards
	• Attend class regularly, be prompt and follow absence notification procedures • Develop and maintain acceptable working relations. • Manage time wisely • Maintain a positive and cooperative attitude • Demonstrate values of honesty and integrity • Respect others	3	0	Academic: RLST: 11-12.3, 11-12.4 WS: 11-12.4 CTE Anchor: Responsibility and Flexibility: 7.1, 7.2,

	• Dress in a professional manner according to industry standards • Use appropriate personal hygiene/grooming and dress • Demonstrate responsibility by exerting a high level of effort and working toward a goal			7.3, 7.4 CTE Pathway: D6.2, D6.1
XX.	INTERPERSONAL SKILLS AND GROUP DYNAMICS	CR	Lab/ CC	Standards
	• Work as a member of a team • Identify proper procedures for handling harassment • Demonstrate leadership skills by working independently, making appropriate decisions, working well with others, and accepting constructive criticism • Accept and work with individuals from various cultures	3	0	Academic: RLST: 9-10.5 CTE Anchor: Leadership and Teamwork: 9.1, 9.2, 9.3, 9.6, 9.7, 9.8, 9.13 CTE Pathway: D10.2, D11.4
XXI.	THINKING AND PROBLEM SOLVING SKILLS	CR	Lab/ CC	Standards
	• Utilize problem-solving techniques • Understand logical reasoning • Think creatively • Make sound decisions • Interpret information correctly	3	0	Academic: RLST: 11-12.3 WS: 11-12.4 CTE Anchor: Problem Solving and Critical Thinking: 5.1, 5.2, 5.4 CTE Pathway: D1.1, D7.3, D10.1, D10.2, D11.4
XXII.	COMMUNICATION SKILLS	CR	Lab/ CC	Standards
	• Use effective verbal and written skills • Read technical journals and write technical reports using appropriate terminology • Listen attentively, follow directions, and relay directions to others • Research and retrieve information	3	0	Academic: WS: 11-12.10, 11-12.4, 9-10.4 CTE Anchor: Communications: 2.5 CTE Pathway: D1.3, D6.5, D6.6, D6.1, D6.2