

Coastline ROP – Career Technical Education

ANIMAL HEALTHCARE INTERNSHIP

INDUSTRY SECTOR: Agriculture and Natural Resources Sector

PATHWAY: Animal Science

CALPADS TITLE: Advanced Animal Science (Capstone)

CALPADS CODE: 7142

HOURS:

Total	Classroom	Laboratory/CC/CVE
216	83	133

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

COURSE DESCRIPTION:

This class will examine more advanced topics in the veterinary science field. Additional instruction will include ethology, laboratory skills, pharmacology, and common procedures including radiology, diagnostic, emergency, and surgical. After initial classroom theory, students will be placed in a veterinarian office (or another suitable facility) for hands-on application of learning. Internship site location and hours to be arranged by the instructor.

A-G APPROVAL: No

ARTICULATION: None

DUAL ENROLLMENT: None

PREREQUISITES:

Prerequisite
Animal Healthcare with a "C" or better

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:

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

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
	<ul style="list-style-type: none"> • Demonstrate awareness of course objectives and competencies • Understand course requirements and student expectations 	3	0	Academic: RLST: 11-12.4 WS: 9-10.4 CTE Anchor: Responsibility and Flexibility: 7.2 CTE Pathway: D1.3
II.	THE ANIMAL HEALTHCARE INDUSTRY	CR	Lab/ CC	Standards
	<ul style="list-style-type: none"> • Understand the role of planning in decision-making and responding to client expectations • Discuss job responsibilities in a company and identify the chain of command using an organizational chart • Distinguish different management styles and identify the role of management • Understand the cost of employee absenteeism and its impact on an organization's finances and salaries • Understand the impact of errors and misuse of resources on an organization's financial status • Identify the role of labor unions and/or professional organizations • Discuss the importance of maintaining a professional image to enhance the community perception of the company/ industry • Understand how individual actions can affect the larger community • Identify the impact of the industry on the environment and public safety • Identify the use of green technology within the industry sector • Identify industry practices that demonstrate a commitment to sustainability • Examine advanced training opportunities 	3	0	Academic: WS: 9-10.7 CTE Anchor: Career Planning and Management: 3.1, 3.4, 3.6 CTE Pathway: D1.1
III.	WORKPLACE SAFETY	CR	Lab/ CC	Standards
	<ul style="list-style-type: none"> • 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 	3	6	Academic: RLST: 11-12.3 CTE Anchor: Health and Safety: 6.1, 6.2, 6.3, 6.5, 6.6 Technical Knowledge and Skills: 10.1 CTE Pathway: D1.4, D1.3
IV.	ETHOLOGY	CR	Lab/ CC	Standards
	<ul style="list-style-type: none"> • Explain the interaction between innate behavior and environment • Recognize fixed action patterns, sign stimuli, imprinting, and displacement behaviors • Demonstrate correct approach, handle, and properly restrain animals • Utilize appropriate methods of restraint 	6	15	Academic: WS: 9-10.4 LS: LS1, LS1.A, LS1.B CTE Anchor: Technology: 4.7 Problem Solving and Critical Thinking: 5.1 Technical

				Knowledge and Skills: 10.1 CTE Pathway: D1.3, D9.1
V.	TERMINOLOGY	CR	Lab/ CC	Standards
	<ul style="list-style-type: none"> • Apply knowledge of Latin abbreviations to define vocabulary used in animal health care • Translate prescriptions from the abbreviated form into standard English • Define prefixes, suffixes, word roots and combining forms • Recognize, identify and use approved medical abbreviations • Spell and pronounce terms correctly • Select and apply correct terminology in workplace situations 	3	5	Academic: RLST: 11-12.4 CTE Anchor: Communications: 2.4, 2.5 Technical Knowledge and Skills: 10.1, 10.4 CTE Pathway: D1.3, D1.4
VI.	ADVANCED NUTRITION	CR	Lab/ CC	Standards
	<ul style="list-style-type: none"> • Analyze labels for essential nutrients and other pertinent information • Describe nutritional diseases and identify the causes and treatment for them 	6	3	Academic: SEP: 4, 5 CTE Anchor: Problem Solving and Critical Thinking: 5.1, 5.4 CTE Pathway: D2.1, D2.2, D2.3, D2.4
VII.	VITAL SIGNS	CR	Lab/ CC	Standards
	<ul style="list-style-type: none"> • Identify and measure normal levels of temperature, pulse, and respiration • 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 • Develop an understanding of the importance of vital signs per procedure 	3	10	Academic: A-APR: 1 CTE Anchor: Problem Solving and Critical Thinking: 5.4 CTE Pathway: D1.1
VIII.	ANATOMY AND PHYSIOLOGY	CR	Lab/ CC	Standards
	<ul style="list-style-type: none"> • Demonstrate a basic understanding of gross animal anatomy and physiology • Describe the major function, list the organs and their function for each of the systems listed below: <ul style="list-style-type: none"> • Musculoskeletal system • Respiratory system • Circulatory system • Nervous system • Gastrointestinal • Urinary • Reproductive 	6	6	Academic: RLST: 9-10.4 LS: LS1.B, LS1, LS1.A CTE Anchor: Technical Knowledge and Skills: 10.1 CTE Pathway: D3.1, D3.3
IX.	LABORATORY SKILLS	CR	Lab/ CC	Standards

	<ul style="list-style-type: none"> • Use common laboratory equipment • Perform medical mathematical calculations • Identify laboratory hazards • Identify common parasites • Document findings properly 	6	6	Academic: RLST: 9-10.3 A-CED: 1 SEP: 5 CTE Anchor: Technology: 4.3 Problem Solving and Critical Thinking: 5.3 CTE Pathway: D1.1
X.	PHARMACOLOGY	CR	Lab/CC	Standards
	<ul style="list-style-type: none"> • Identify common drugs and explain their uses • Read prescription labels • Explain how to order pharmaceutical drugs and restock inventory • Read labels correctly when administering medication • Understand the types and groups of drugs 	9	6	Academic: RLST: 9-10.3 A-CED: 1 SEP: 5 CTE Anchor: Communications: 2.1 Technical Knowledge and Skills: 10.1, 10.2 CTE Pathway: D3.3, D6.2, D6.4
XI.	RADIOLOGY AND DIAGNOSTIC PROCEDURES	CR	Lab/CC	Standards
	<ul style="list-style-type: none"> • Explain safety procedures used during radiology procedures • Demonstrate an understanding of diagnostic tests such as ultrasound, MRI, CAT Scan, laser, and endoscopy • Explain the care, maintenance, and processing of radiographs 	3	6	Academic: RLST: 9-10.3 CTE Anchor: Technology: 4.7 Health and Safety: 6.3, 6.6 Technical Knowledge and Skills: 10.1 CTE Pathway: D6.2
XII.	EMERGENCY PROCEDURES	CR	Lab/CC	Standards
	<ul style="list-style-type: none"> • Recognize symptoms of shock and trauma • Demonstrate ability to perform CPR on small animals • Demonstrate correct knowledge of vital signs 	3	15	Academic: RLST: 9-10.3 CTE Anchor: Technology: 4.3 Problem Solving and Critical Thinking: 5.4 Health and Safety: 6.3 Technical Knowledge and Skills: 10.1 CTE Pathway: D1.3, D6.1, D6.2, D9.1

XIII.	COMMON SURGICAL PROCEDURES	CR	Lab/ CC	Standards
	<ul style="list-style-type: none"> • Demonstrate an understanding of aseptic techniques • Exhibit knowledge of basic techniques used to assist in foxtail removal, ovariohysterectomy, castration, abscesses, and dentistry • Observe surgery • Explain pre- and post-operative procedures, including clean up and use of the autoclave and the sterilizer • Identify instruments used in surgical procedures 	6	10	Academic: RLST: 11-12.4, 9-10.7 WS: 9-10.4 CTE Anchor: Health and Safety: 6.3, 6.6 Technical Knowledge and Skills: 10.1 CTE Pathway: D6.2, D6.1
XIV.	CLEANING AND SANITATION	CR	Lab/ CC	Standards
	<ul style="list-style-type: none"> • Understanding the guidelines for cleaning and sanitation • Describe the methods, products, and equipment used • Practice sanitation and safety procedures 	4	15	Academic: RLST: 11-12.3 CTE Anchor: Problem Solving and Critical Thinking: 5.4 Health and Safety: 6.2, 6.3, 6.6 Technical Knowledge and Skills: 10.1 CTE Pathway: D1.3, D8.1, D8.2, D8.3
XV.	VETERINARIAN OFFICES	CR	Lab/ CC	Standards
	<ul style="list-style-type: none"> • Perform front office procedures <ul style="list-style-type: none"> • Appointment scheduling • Admitting and discharging • Basic filing and medical records • Invoicing • Billing and payment procedures • Perform back office procedures, including procedures to be used in the exam room, treatment area, and surgery room, pharmacy, laboratory, radiology, kennel, and grooming 	3	30	Academic: RLST: 11-12.3 CTE Anchor: Communications: 2.3, 2.4 Career Planning and Management: 3.6 Technology: 4.2 Health and Safety: 6.2 Responsibility and Flexibility: 7.2, 7.3 CTE Pathway: D1.1, D9.1, D9.3
XVI.	EMPLOYMENT LITERACY	CR	Lab/ CC	Standards
	<ul style="list-style-type: none"> • Identify available positions in the industry through the use of the Internet • Complete an application form correctly • Prepare a written resume • Participate in a simulated employment interview 	4	0	Academic: WS: 9-10.4 CTE Anchor: Communications: 2.2, 2.4 Career Planning and Management: 3.1, 3.2, 3.4, 3.5

				3.1, 3.2, 3.4, 3.5 CTE Pathway: D1.1
XVII.	PERSONAL SKILLS RELATED TO EMPLOYMENT	CR	Lab/ CC	Standards
	<ul style="list-style-type: none"> • 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 • 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 	3	0	Academic: RLST: 11-12.3 WS: 11-12.4 CTE Anchor: Responsibility and Flexibility: 7.1, 7.2, 7.3, 7.4 CTE Pathway: D6.2, D6.1
XVIII.	INTERPERSONAL SKILLS AND GROUP DYNAMICS	CR	Lab/ CC	Standards
	<ul style="list-style-type: none"> • 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, 9.5, 9.6, 9.13 CTE Pathway: D11.4
XIX.	THINKING AND PROBLEM SOLVING SKILLS	CR	Lab/ CC	Standards
	<ul style="list-style-type: none"> • 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, D11.4
XX.	COMMUNICATION SKILLS	CR	Lab/ CC	Standards
	<ul style="list-style-type: none"> • 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: D1.1, D1.4, D3.2, D4.2