

Course Outlines

San Joaquin Valley College

Course Outline

Division: Health Studies
Program: Veterinary Assisting

Course Number: ASCI 100
Course Name: Veterinary Anatomy and Physiology I
Total Semester Units: 3.0
Total Hours: 45
Theory/Lecture Hours: 45
Application/Lab Hours: 0
Externship/Clinical Hours: 0

Course Description:

This course focuses on the anatomical foundations including comparative anatomy of domestic animals primarily dogs and cats. Through lecture and lab demonstrations, emphasis will be placed on the variations in each species. The fundamentals of veterinary terminology will be discussed.

Course Learning Outcomes

Upon completion of this course, the student should be able to:

1. Compare and contrast the anatomical variations in all body systems of domestic animals
2. Identify all major muscle groups, all organ systems and all structures of the skeletal system
3. Perform a dissection and collect specimens for histology
4. Utilize proper veterinary terminology

Grade Item Weights

- 30% Projects/Homework
- 25% Quizzes
- 5% Skills
- 30% Exams
- 10% Professional Development

San Joaquin Valley College

Course Outline

| |
|---|
| Essential Veterinary Skills ASCI 100 |
|---|

- | |
|---|
| <ol style="list-style-type: none">1. Perform a necropsy or dissection on a non-preserved animal (GROUP)2. Properly handle and dispose of deceased animals3. Collect samples, store and ship according to laboratory protocols |
|---|

Unit Objectives

Unit 1: Anatomical and Biological Terminology (CLOs 1, 4)

Upon completion of this unit of instruction, the student should be able to:

- 1.1 Identify word elements and their functions in medical terminology:
 - 1.1.1 Roots
 - 1.1.2 Prefixes
 - 1.1.3 Suffixes
 - 1.1.4 Combined terms/forms
 - 1.1.5 Plural form
- 1.2 Demonstrate a basic knowledge in building medical terms
- 1.3 Illustrate the importance of pronunciation and spelling in medical terminology
- 1.4 Demonstrate how to break medical terms apart and define their meaning
- 1.5 Identify spellings of medical word beginnings and endings
- 1.6 Distinguish the difference between single and plural form of medical terminology
- 1.7 Explain how to use medical terminology in common practices
- 1.8 Define the various medical abbreviations and symbols

Unit 2: The Body Systems (CLOs 2, 3, 4)

Upon completion of this unit of instruction, the student should be able to:

- 2.1 Describe how various body systems work together and how they are different
- 2.2 Identify the major muscle groups
- 2.3 Identify the major joints and ligaments
- 2.4 Describe the types of skin and connective tissues
- 2.5 Describe the structures of the eye, ear and nose and tongue
- 2.6 Identify the dental and digestive structures
- 2.7 Identify the structures of the respiratory system
- 2.8 Identify the parts of the circulatory system
- 2.9 Identify the parts of the urogenital/reproductive system
- 2.10 Identify the parts of the nervous system
- 2.11 Identify the parts of the endocrine/immune system
- 2.12 Identify the parts of the axial skeleton
- 2.13 Identify the parts of the appendicular skeleton
- 2.14 Describe the physiology of the skeletal structure
- 2.15 Describe the components of the visceral skeleton

San Joaquin Valley College
Course Outline

Unit 3: Dissection and Collection of Preserved Species (CLOs 2, 3)

Upon completion of this unit of instruction, the student should be able to:

- 3.1 Analyze all systems and organs of the mammalian body through system by system dissection
- 3.2 Visually identify normal anatomy
- 3.3 Demonstrate proper safety methods used in dissection process, with instruments, and with preserved specimens

San Joaquin Valley College

Course Outline

Instructional Strategies and Methods for Assessing Student Learning Outcomes:

1. Critical Thinking Tasks and Assignments:

Through discussions, individual and group presentations, written assignments, and research papers and projects, students will demonstrate critical thinking skills and problem solving abilities that meet the standards outlined by the Student Learning Outcomes for this course. Each instructor must maintain an instructor portfolio with examples of all required assignments and activities.

2. Required Reading, Writing, Projects, and Outside of Class Assignments:

Each instructor must maintain a listing of all homework assignments including reading assignments, writing assignments, and projects.

3. Methods to Measure Achievement of Student Learning Outcomes:

Students in this course will be graded in the following categories:

a) Writing Assignments:

- Written homework
- Research papers
- Term or other papers

b) Computational or Non-Computational Problem Solving Demonstrations:

- Exams
- Homework problems
- Quizzes

c) Skill Demonstration:

- Individual and group presentations
- Performance exams
- Skill competencies
- Case studies

d) Objective Examinations:

- Multiple choice
- Matching items
- Fill-in-the-blanks
- Essays
- Short answer
- True or false

The evaluation of student performance is based on the scores received on quizzes, homework assignments, projects, skill performance, and objective examinations. All scores earned are converted to a percentage of the total scores possible within each course. The final grade in each course is determined by the percent ranges converted to the letter grade shown in the chart below.

| | | | | |
|---------------------|---|------|---|----|
| 90 | - | 100% | = | A |
| 80 | - | 89% | = | B |
| 70 | - | 79% | = | C |
| 65 | - | 69% | = | D* |
| Below | | 65% | = | F |
| * No Credit Awarded | | | | |

A grade of 'C' or better is required to pass this course.

San Joaquin Valley College

Course Outline

Division: Health Studies
Program: Veterinary Assisting

Course Number: ASCI 110
Course Name: Veterinary Anatomy and Physiology II
Total Semester Units: 3.0
Total Hours: 45
Theory/Lecture Hours: 45
Application/Lab Hours: 0
Externship/Clinical Hours: 0

Course Description:

The course focuses on the foundational principles of the physiology of the major organ systems of domestic animals. Veterinary terminology will be discussed. All organ systems and diseases will be explored through lecture and dissection projects. Identification of common domestic animals breeds and proper nutrition and feeding guidelines for all life stages of dogs and cats will be discussed.

Course Learning Outcomes

Upon completion of this course, the student should be able to:

1. Explain the physiological process of all major organ systems and how it relates to the whole body
2. Compare and contrast the physiology of the major organ systems of birds, reptiles and mammals.
3. Perform animal organ dissection and collect specimens for histology
4. Identify and categorize the physical characteristics, inherent behaviors and basic husbandry practices of common dog and cat breeds
5. Discuss proper nutrition and feeding guidelines for dogs and cats of all life stages
6. Utilize veterinary terminology

Grade Item Weights

- 30% Projects/Homework
- 25% Quizzes
- 5% Skills
- 30% Exams
- 10% Professional Development

San Joaquin Valley College

Course Outline

| |
|---|
| Essential Veterinary Skills ASCI 110 |
|---|

- | |
|--|
| <ol style="list-style-type: none">1. Encage and remove small animals from Cages2. Animal Housing Sanitation |
|--|

Unit Objectives

Unit 1: Functions of the Body Systems birds, reptiles, mammals **(CLOs 1, 2, 3)**

Upon completion of this unit of instruction, the student should be able to:

- 1.1 Describe the function and physiology of the following systems
 - Nervous system
 - Endocrine/exocrine system
 - Cellular immune system
 - Skeletal-muscular system
 - Senses systems
 - Digestion system
 - Respiratory system
 - Circulatory system
 - Urogenital/reproductive systems
- 1.2 Compare and contrast the following systems:
 - Nervous system
 - Endocrine/exocrine system
 - Cellular immune system
 - Skeletal-muscular system
 - Senses systems
 - Digestion system
 - Respiratory system
 - Circulatory system
 - Urogenital/reproductive systems
- 1.3 Identify and describe the relationship of body structures to body functions

Unit 2: Common Dog and Cat Breeds (CLOs 4, 5)

Upon completion of this unit of instruction, the student should be able to:

- 2.1 Identify and describe the popular feline and canine breeds
- 2.2 Describe and list the physical and behavioral characteristics of various feline breeds and canine breed categories
- 2.3 Explain and describe basic husbandry of dogs and cats including nutritional requirements for all life stages

Unit 3: Anatomical and Biological Terminology (CLO 6)

Upon completion of this unit of instruction, the student should be able to:

- 3.1 Use veterinary medical terminology to describe various anatomical structures of systems as it relates to animals
- 3.2 Use veterinary medical terminology to describe various physiological processes
- 3.3 Use veterinary medical terminology to describe various pathophysiological conditions
- 3.4 Utilize correct spelling and grammar in verbal and written communications

San Joaquin Valley College

Course Outline

Instructional Strategies and Methods for Assessing Student Learning Outcomes:

1. Critical Thinking Tasks and Assignments:

Through discussions, individual and group presentations, written assignments, and research papers and projects, students will demonstrate critical thinking skills and problem solving abilities that meet the standards outlined by the Student Learning Outcomes for this course. Each instructor must maintain an instructor portfolio with examples of all required assignments and activities.

2. Required Reading, Writing, Projects, and Outside of Class Assignments:

Each instructor must maintain a listing of all homework assignments including reading assignments, writing assignments, and projects.

3. Methods to Measure Achievement of Student Learning Outcomes:

Students in this course will be graded in the following categories:

a) Writing Assignments:

- Written homework
- Research papers
- Term or other papers

b) Computational or Non-Computational Problem Solving Demonstrations:

- Exams
- Homework problems
- Quizzes

c) Skill Demonstration:

- Individual and group presentations
- Performance exams
- Skill competencies
- Case studies

d) Objective Examinations:

- Multiple choice
- Matching items
- Fill-in-the-blanks
- Essays
- Short answer
- True or false

The evaluation of student performance is based on the scores received on quizzes, homework assignments, projects, skill performance, and objective examinations. All scores earned are converted to a percentage of the total scores possible within each course. The final grade in each course is determined by the percent ranges converted to the letter grade shown in the chart below.

| | | | | |
|---------------------|---|------|---|----|
| 90 | - | 100% | = | A |
| 80 | - | 89% | = | B |
| 70 | - | 79% | = | C |
| 65 | - | 69% | = | D* |
| Below | | 65% | = | F |
| * No Credit Awarded | | | | |

A grade of 'C' or better is required to pass this course.

San Joaquin Valley College

Course Outline

Division: Health Studies
Program: Veterinary Assisting

Course Number: ASCI 120
Course Name: Introduction to Veterinary Technology
Total Semester Units: 3.0
Total Hours: 45
Theory/Lecture Hours: 45
Application/Lab Hours: 0
Externship/Clinical Hours: 0

Course Description:

This course is an introduction to the duties and responsibilities of veterinary technicians and veterinary assistants. Students will discuss the legal and ethical responsibilities, as well as the communication skills needed in an office setting. The course will introduce basic biology concepts such as Cell Theory, metabolism and cellular reproduction. The student will demonstrate proper animal handling and restraint techniques for sample collection and venipuncture.

Course Learning Outcomes

Upon completion of this course, the student should be able to:

1. Analyze the role and responsibility of the veterinary technician and veterinary assistant in various occupational settings
2. Demonstrate basic front office and client communication skills
3. Describe the important metabolic pathways, their significance and how they function within a cell
4. Identify and describe the groups of microorganisms such as bacteria, fungi, protozoa, and algae; describe the characteristics of selected representative pathogens
5. Demonstrate essential veterinary assisting skills and utilize proper handling and restraint techniques.
6. Define and explain the importance of disinfection and control of infectious agents in a veterinary office

Grade Item Weights

- 15% Projects/Homework
- 15% Quizzes
- 30% Skills
- 30% Exams
- 10% Professional Development

San Joaquin Valley College

Course Outline

Essential Veterinary Skills ASCI 120

1. Express Anal Sacs – Canine
2. Canine Cephalic Venipuncture Restraint
3. Canine Saphenous Venipuncture Restraint
4. Canine Jugular Venipuncture Restraint
5. Feline Cephalic Venipuncture Restraint
6. Feline Jugular Venipuncture Restraint
7. Perform venipuncture in a dog and cat
8. Perform subcutaneous injection in a dog and cat
9. Perform intramuscular injection in a dog

Unit Objectives

Unit 1: Roles and Responsibilities (CLO 1)

Upon completion of this unit of instruction, the student should be able to:

- 1.1 Identify, define and interpret veterinary law and ethics
- 1.2 Discuss and recognize the laws pertaining to practice of veterinary technology in California
- 1.3 Describe the requirements of the state of California to qualify for the veterinary technician board examination and continued lifelong learning concepts for maintaining licensure
- 1.4 Describe the medical and legal requirements of medical records
- 1.5 Compare and contrast between the 5 exclusive job tasks of the registered veterinary technician and the general job tasks of the veterinary assistant
 - 1.5.1 Induction of anesthesia
 - 1.5.2 Suturing of existing wounds
 - 1.5.3 Application of splints and casts
 - 1.5.4 Dental prophylaxis and extractions
 - 1.5.5 Special techniques for placement of an IV catheter
- 1.6 Recognize appropriate written, verbal and electronic communications and their importance

Unit 2: Office Procedures and Human Relation Skills (CLO 2)

Upon completion of this unit of instruction, the student should be able to:

- 2.1 Compose, critique, and document all written correspondence
- 2.2 Address professionalism and accuracy in written correspondence
- 2.3 Develop and customize office task protocols
- 2.4 Describe the applications and use of various filing systems
- 2.5 Apply the use of computers in the veterinary practice
- 2.6 Identify and demonstrate the process of taking a complete medical history
- 2.7 Discuss the client view of euthanasia and the process for dealing with the stages of grief

San Joaquin Valley College

Course Outline

Unit 3: Introduction to Biology (CLOs 3, 4)

Upon completion of this unit of instruction, the student should be able to:

- 3.1 Identify and differentiate Eukaryotes, Prokaryotes, Virus, Prion, Parasitology, Immunology, Protozoology, Mycology, Phycology, Nematology
- 3.2 Identify the steps of cell division for Mitosis and Meiosis
- 3.3 Describe cell metabolism including Glycolysis, Krebs' Cycle, Aerobic respiration, Anaerobic respiration

Unit 4: Microbial Metabolism (CLO 3)

Upon completion of this unit of instruction the student should be able to:

- 4.1 Define metabolism, catabolism and anabolism, and the role of ATP
- 4.2 Compare and contrast aerobic and anaerobic respiration
- 4.3 Describe the chemical reactions and some products of fermentation

Unit 5: Disinfection and Control (CLO 6)

Upon completion of this unit of instruction the student should be able to:

- 5.1 Define the following terms related to microbial control: sterilization, disinfection, antisepsis, sanitation, biocide, germicide, bacteriostatic, and asepsis
- 5.2 Describe the effects of microbial control agents on cellular structures
- 5.3 Describe, compare and contrast the physical methods of microbial control: moist and dry heat (autoclaving, pasteurization), filtration, osmotic pressure, ultrasound, and radiation
- 5.4 List the factors related to the effectiveness of disinfection
- 5.5 Identify and differentiate the various types of chemicals used in controlling potential pathogens, such as disinfectants: phenols and related compounds, halogens, alcohols, heavy metals, surfactants, and detergents (quaternary ammonium compounds)

Unit 6: Essential Veterinary Assisting Skills and Small Animal Capture and Restraint (CLO 5)

Upon completion of this unit of instruction, the student should be able to:

- 6.1 Analyze the animal's demeanor and what are the common causes of aggressive behavior
- 6.2 Describe the methods for capturing small animals and handling them safely
- 6.3 Illustrate and utilize various restraint techniques
- 6.4 Safely restrain an animal for exam
- 6.5 Demonstrate proper restraint techniques for venipuncture and parenteral injections
- 6.6 Perform a physical exam and record the vital signs
- 6.7 Collect a venous blood sample
- 6.8 Perform subcutaneous injection

San Joaquin Valley College

Course Outline

Instructional Strategies and Methods for Assessing Student Learning Outcomes:

1. Critical Thinking Tasks and Assignments:

Through discussions, individual and group presentations, written assignments, and research papers and projects, students will demonstrate critical thinking skills and problem solving abilities that meet the standards outlined by the Student Learning Outcomes for this course. Each instructor must maintain an instructor portfolio with examples of all required assignments and activities.

2. Required Reading, Writing, Projects, and Outside of Class Assignments:

Each instructor must maintain a listing of all homework assignments including reading assignments, writing assignments, and projects.

3. Methods to Measure Achievement of Student Learning Outcomes:

Students in this course will be graded in the following categories:

a) Writing Assignments:

- Written homework
- Research papers
- Term or other papers

b) Computational or Non-Computational Problem Solving Demonstrations:

- Exams
- Homework problems
- Quizzes

c) Skill Demonstration:

- Individual and group presentations
- Performance exams
- Skill competencies
- Case studies

d) Objective Examinations:

- Multiple choice
- Matching items
- Fill-in-the-blanks
- Essays
- Short answer
- True or false

The evaluation of student performance is based on the scores received on quizzes, homework assignments, projects, skill performance, and objective examinations. All scores earned are converted to a percentage of the total scores possible within each course. The final grade in each course is determined by the percent ranges converted to the letter grade shown in the chart below.

| | | | | |
|---------------------|---|------|---|----|
| 90 | - | 100% | = | A |
| 80 | - | 89% | = | B |
| 70 | - | 79% | = | C |
| 65 | - | 69% | = | D* |
| Below | | 65% | = | F |
| * No Credit Awarded | | | | |

A grade of 'C' or better is required to pass this course.

San Joaquin Valley College

Course Outline

Division: Health Studies
Program: Veterinary Assisting

Course Number: ASCI 130
Course Name: Companion Animal Diseases & Nursing
Total Semester Units: 3.0
Total Hours: 45
Theory/Lecture Hours: 45
Application/Lab Hours: 0
Externship/Clinical Hours: 0

Course Description:

This course focuses on infectious and non-infectious diseases of small animals including zoonotic diseases. Students will identify the basic principles of disease transmission, pathology, and prevention. They will distinguish the common disorders of organ systems, and evaluate methods for their prevention and treatment. The fundamentals of immunology will be discussed. Students will practice essential veterinary nursing skills.

Course Learning Outcomes

Upon completion of this course, the student should be able to:

1. Compare and contrast the processes, diagnosis and treatment of diseases and disorders affecting domestic animals
2. Evaluate the conditions affecting various organ systems in dogs and cats and identify the correct methods of treatment and prevention
3. Describe the basics of animal immune responses to infection and vaccination
4. Identify and use common veterinary medical terminology
5. Describe the duties and responsibilities for performing veterinary nursing skills

Grade Item Weights

- 25% Projects/Homework
- 25% Quizzes
- 10% Skills
- 30% Exams
- 10% Professional Development

San Joaquin Valley College

Course Outline

Essential Veterinary Skills ASCI 130

1. Perform a Schirmer Tear Test
2. Perform a Fluorescein Stain
3. Determine intraocular pressure using Tonometry (Tonopen Method)
4. Administer a subcutaneous injection on a cat and dog
5. Administer an intramuscular injection on a cat and dog
6. Properly set up an intravenous line and administer subcutaneous fluids to a cat and a dog
7. Perform cephalic venipuncture on a dog and cat
8. Perform jugular venipuncture on a dog and cat
9. Perform a saphenous venipuncture on a dog
10. Place a cephalic catheter on a dog and cat

Unit Objectives

Unit 1: Common Diseases of Small Animals (CLO 1)

Upon completion of this unit of instruction, the student should be able to:

- 1.1 Define the word "disease"
- 1.2 Describe congenital, neonatal, and pediatric diseases
- 1.3 Compare and contrast symptoms and diagnosis for common canine-specific diseases such as Distemper, Parvovirus or Coronavirus
- 1.4 Compare and contrast symptoms and diagnosis for common feline-specific diseases such as Feline Immunodeficiency Virus (FIV) or Feline Leukemia Virus (FeLV)
- 1.5 Identify recommended treatments for diseases
- 1.6 Discuss how environmental factors influence health and disease
- 1.7 Identify disease carriers and describe disease transmission

Unit 2: Disorders of Organ Systems (CLO 2)

Upon completion of this unit of instruction, the student should be able to:

- 2.1 Discuss the various organ systems impacted by disease and disorders: respiratory, gastrointestinal, urinary, reproductive, etc.
- 2.2 Describe the techniques for diagnosis and treatment of various common bacterial, fungal, and viral diseases
- 2.3 Perform common diagnostic tests and properly restrain and administer medications
- 2.4 Discuss zoonotic disease potential and safety issues regarding veterinary staff and pet owners

Unit 3: Immunology and Vaccines (CLO 3)

Upon completion of this unit of instruction, the student should be able to:

- 3.1 Explain nonspecific (internal and external) defense mechanisms and specific defenses, and differentiate between innate and acquired immunity

San Joaquin Valley College

Course Outline

- 3.2 Describe the role of physical structures, chemical factors, and normal flora in Immunity
- 3.3 Explain the processes of phagocytosis, inflammation, fever, and the complement system related to nonspecific resistance
- 3.4 Contrast the four types of acquired immunity
- 3.5 Differentiate humoral (antibody-mediated) from cell-mediated immunity
- 3.6 Discuss the impact of vaccines on the immune system
- 3.7 Define vaccine protocols, including region, recommended age of vaccination, and vaccine boosters
- 3.8 Discuss all forms of preventative medicine including vaccine administration and client education

Unit 4: Terminology (CLO 4)

Upon completion of this unit of instruction, the student should be able to:

- 4.1 Define and utilize common veterinary medical terminology
- 4.2 Recognize common prefixes, suffixes, root words and combined word forms

Unit 5: Caring for a Hospitalized pet (CLO 5)

Upon completion of this unit of instruction, the student should be able to:

- 5.1 Define and discuss the importance and use of a SOAP in a medical record
- 5.2 List the 4 step nursing care plan
- 5.3 Utilize blood test results to develop an appropriate nursing care plan

San Joaquin Valley College

Course Outline

Instructional Strategies and Methods for Assessing Student Learning Outcomes:

1. Critical Thinking Tasks and Assignments:

Through discussions, individual and group presentations, written assignments, and research papers and projects, students will demonstrate critical thinking skills and problem solving abilities that meet the standards outlined by the Student Learning Outcomes for this course. Each instructor must maintain an instructor portfolio with examples of all required assignments and activities.

2. Required Reading, Writing, Projects, and Outside of Class Assignments:

Each instructor must maintain a listing of all homework assignments including reading assignments, writing assignments, and projects.

3. Methods to Measure Achievement of Student Learning Outcomes:

Students in this course will be graded in the following categories:

a) Writing Assignments:

- Written homework
- Research papers
- Term or other papers

b) Computational or Non-Computational Problem Solving Demonstrations:

- Exams
- Homework problems
- Quizzes

c) Skill Demonstration:

- Individual and group presentations
- Performance exams
- Skill competencies
- Case studies

d) Objective Examinations:

- Multiple choice
- Matching items
- Fill-in-the-blanks
- Essays
- Short answer
- True or false

The evaluation of student performance is based on the scores received on quizzes, homework assignments, projects, skill performance, and objective examinations. All scores earned are converted to a percentage of the total scores possible within each course. The final grade in each course is determined by the percent ranges converted to the letter grade shown in the chart below.

| | | | | |
|---------------------|---|------|---|----|
| 90 | - | 100% | = | A |
| 80 | - | 89% | = | B |
| 70 | - | 79% | = | C |
| 65 | - | 69% | = | D* |
| Below | | 65% | = | F |
| * No Credit Awarded | | | | |

A grade of 'C' or better is required to pass this course.

San Joaquin Valley College

Course Outline

Division: Health Studies
Program: Veterinary Assisting

Course Number: ASCI 140
Course Name: Veterinary Technology Pharmacology I
Total Semester Units: 3.0
Total Hours: 45
Theory/Lecture Hours: 45
Application/Lab Hours: 0
Externship/Clinical Hours: 0

Course Description:

This course will provide a basic understanding of veterinary pharmaceuticals their pharmacodynamics, pharmacokinetics and use in common domestic animals. The student will identify and explain pharmaceutical classes. The students will identify controlled substances and explain the state and federal guidelines. The students will perform calculations for administration of fluid therapy and blood transfusions.

Course Learning Outcomes

Upon completion of this course, the student should be able to:

1. Utilize pharmacological terminology, differentiating between drug classifications and their medicinal purposes
2. Calculate, prepare and dispense prescriptions as ordered by the veterinarian and as described on manufacture labeling
3. Differentiate the various routes of drug administration
4. Demonstrate basic knowledge of chemistry
5. Describe the chemistry of various drugs, their uses, the effects on the body (pharmacodynamics), and what the body does to the drug (pharmacokinetics)
6. Calculate drug doses for fluid replacement, maintenance flow rates and blood transfusion
7. Demonstrate methods of proper documentation, record keeping and inventory control according to regulatory guidelines

Grade Item Weights

- 20% Projects/Homework
- 20% Quizzes
- 20% Skills
- 30% Exams
- 10% Professional Development

San Joaquin Valley College

Course Outline

Essential Veterinary Skills ASCI 140

1. Complete a controlled substance log
2. Properly label medication
3. Properly dispense an oral solid medication
4. Properly dispense a liquid medication
5. Reconstitute a medication for dispensing
6. Reconstitute a Vaccine
7. Dispense medication to the client
8. Administer oral tablet or capsule to a dog and a cat
9. Cross match blood for transfusion

Unit Objectives

Unit 1: Introduction to Pharmacology (CLO 1)

Upon completion of this unit of instruction, the student should be able to:

- 1.1 Identify pharmacological terminology, symbols and abbreviations
- 1.2 Discuss the basics of pharmacology:
 - 1.2.1 Composition
 - 1.2.2 Uses
 - 1.2.3 Effects
 - 1.2.4 Classifications
- 1.3 List the common classes of drugs
- 1.4 Recognize trade names and generic names of drugs
- 1.5 Discuss pharmaceutical regulations with respect to state and federal guidelines
- 1.6 Discuss OSHA guidelines and applications of MSDS terminology and drug classifications

Unit 2: Pharmacology Chemistry (CLOs 4, 5)

Upon completion of this unit of instruction, the student should be able to:

- 2.1 Describe the pharmacodynamic effects of common veterinary drugs
- 2.2 Describe the pharmacokinetic effects of common veterinary drugs
- 2.3 Describe the pharmacotherapeutic effects of common veterinary drugs
- 2.4 Describe and identify the chemistry and indications of common veterinary drugs
- 2.5 Describe the warnings, toxicities, indications and contraindications of common veterinary drugs
- 2.6 Use current reference materials such as veterinary drug handbooks
- 2.7 Create personal drug information reference files
- 2.8 Compare and contrast benefits and usages of analgesics, NSAIDs, and off-label medications

San Joaquin Valley College

Course Outline

- 2.9 Assess need for analgesia and assist in the development and implementation of the pain management plan to optimize patient comfort and/or healing.

Unit 3: Conversions and Dispensing Prescriptions (CLOs 2, 6, 7)

Upon completion of this unit of instruction, the student should be able to:

- 3.1 Review basic math skills needed for calculating dosages
- 3.2 Reconstitute medication as needed to the desired strength
- 3.3 Package, label, and dispense medication
- 3.4 Discuss medication with a client
- 3.5 Identify the methods of conversion of pharmaceutical measurements
- 3.6 Properly calculate veterinary drug dosages
- 3.7 Calculate solutions and prepare dilutions
- 3.8 Discuss state regulations for labeling

Unit 4: Administration of Medications (CLOs 1, 3, 5)

Upon completion of this unit of instruction, the student should be able to:

- 4.1 Describe the various routes of administration of medications
- 4.2 Determine onset of action based on route of administration
- 4.3 Educate the client with regard to analgesics and administration of pain management protocols and the side effects to ensure the safety of the patient/client and efficacy of the product(s) or procedure(s)

Unit 5: Inventory and Record Control (CLO 7)

Upon completion of this unit of instruction, the student should be able to:

- 5.1 Describe methods to purchase, record, and control the inventory of hospital pharmaceutical supplies
- 5.2 Maintain DEA records of controlled substances commonly used
- 5.3 Discuss federal and state guidelines for dispensing medication
- 5.4 Explain proper disposal of unused or outdated medication
- 5.5 Document correctly on pet chart

Unit 6: Fluid Therapy (CLO 6)

Upon completion of this unit of instruction, the student should be able to:

- 6.1 Analyze the use of different crystalloid and colloid fluids
- 6.2 Discuss hazards of fluid therapy replacement
- 6.3 Discuss transfusion basics and blood product protocols
- 6.4 Perform calculations to determine drug dosages
- 6.5 Perform calculations to determine fluid administration rates
- 6.6 Demonstrate the preparation and administration of selected veterinary drugs

San Joaquin Valley College

Course Outline

Instructional Strategies and Methods for Assessing Student Learning Outcomes:

1. Critical Thinking Tasks and Assignments:

Through discussions, individual and group presentations, written assignments, and research papers and projects, students will demonstrate critical thinking skills and problem solving abilities that meet the standards outlined by the Student Learning Outcomes for this course. Each instructor must maintain an instructor portfolio with examples of all required assignments and activities.

2. Required Reading, Writing, Projects, and Outside of Class Assignments:

Each instructor must maintain a listing of all homework assignments including reading assignments, writing assignments, and projects.

3. Methods to Measure Achievement of Student Learning Outcomes:

Students in this course will be graded in the following categories:

a) Writing Assignments:

- Written homework
- Research papers
- Term or other papers

b) Computational or Non-Computational Problem Solving Demonstrations:

- Exams
- Homework problems
- Quizzes

c) Skill Demonstration:

- Individual and group presentations
- Performance exams
- Skill competencies
- Case studies

d) Objective Examinations:

- Multiple choice
- Matching items
- Fill-in-the-blanks
- Essays
- Short answer
- True or false

The evaluation of student performance is based on the scores received on quizzes, homework assignments, projects, skill performance, and objective examinations. All scores earned are converted to a percentage of the total scores possible within each course. The final grade in each course is determined by the percent ranges converted to the letter grade shown in the chart below.

| | | | | |
|---------------------|---|------|---|----|
| 90 | - | 100% | = | A |
| 80 | - | 89% | = | B |
| 70 | - | 79% | = | C |
| 65 | - | 69% | = | D* |
| Below | | 65% | = | F |
| * No Credit Awarded | | | | |

A grade of 'C' or better is required to pass this course.

San Joaquin Valley College

Course Outline

Division: Health Studies
Program: Veterinary Assisting

Course Number: ASCI 150
Course Name: Veterinary Technology Clinical Pathology
Total Semester Units: 3.0
Total Hours: 45
Theory/Lecture Hours: 45
Application/Lab Hours: 0
Externship/Clinical Hours: 0

Course Description:

The Veterinary Technology Clinical Pathology course will provide students with fundamental aspects of biology, parasitology and proper laboratory testing protocols. Basic techniques for sample collection and microorganism identification are emphasized in the laboratory.

Course Learning Outcomes

Upon completion of this course the student should be able to:

1. Define clinical pathology and explain the veterinary assistant's role and responsibility in clinical pathology
2. Utilize maintenance protocols for care and use of laboratory equipment including microscopes, blood analyzers, refractometers and centrifuge
3. Demonstrate competency in laboratory skills including microscopic observation, slide preparation and staining, and aseptic technique
4. Outline and demonstrate indications and methods for performing various cytological samples, including skin, ear, blood and vaginal smears to determine abnormal conditions
5. Properly perform common serological and hematological tests.
6. Utilize blood test results to develop a treatment protocol
7. Demonstrate methods for performing micro and macro urinalysis
8. Identify and evaluate common internal and external parasites

Grade Item Weights

- 20% Projects/Homework
- 20% Quizzes
- 30% Exams
- 10% Professional Development
- 20% Skills

San Joaquin Valley College

Course Outline

Unit Objectives

Unit 1: Introduction to Clinical Pathology and Microscopy (CLOs 1, 2)

Upon completion of this unit of instruction the student should be able to:

- 2.1 Define and explain the importance of clinical pathology in veterinary medicine
- 2.2 Explain and demonstrate the care and use of a compound (light) microscope
- 2.3 Compare the different staining techniques used in veterinary medicine

Unit 2: Lab Equipment Safety Care and Maintenance (CLO 3)

Upon completion of this unit of instruction, the student should be able to:

- 2.1 Identify and maintain proper parts of a monocular and binocular microscope
- 2.2 Demonstrate proper handling, cleaning of a microscope and other laboratory equipment
- 2.3 Adhere to safety procedures for all laboratory equipment

Unit 3: Cytology (CLO 4)

Upon completion of this unit of instruction, the student should be able to:

- 3.1 Properly collect a cytological sample and prepare the sample for microscopic evaluation
- 3.2 Identify various microorganisms using proper microscopy techniques
- 3.3 Observe and describe methods for collection and evaluation of vaginal samples
- 3.4 Prepare and evaluate an ear cytology to determine presence of yeast or bacterial organisms
- 3.5 Compare and contrast methods for handling, preservation and packaging of various samples for offsite lab submissions

Unit 4: Hematology and Serological Tests (CLOs 4, 5, 6)

Upon completion of this unit of instruction, the student should be able to:

- 4.1 Evaluate blood chemistry results and develop a treatment plan
- 4.2 Prepare a blood smear and perform a CBC (Complete Blood Count). Identify red blood cells, white blood cells and platelets
- 4.3 Perform a manual Packed Cell Volume (PCV%) and total protein tests and interpret the results
- 4.4 Perform proper sample collection techniques and conduct tests with commonly used veterinary ELISA snap tests (FeLV, Heartworm, Parvo) and demonstrate correct procedures for collecting samples
- 4.5 Discuss virus categories and determine the appropriate serological test

Unit 5: Urinalysis (CLO 7)

Upon completion of this unit of instruction, the student should be able to:

- 5.1 Practice methods of urine specimen collection and preservation

San Joaquin Valley College

Course Outline

- 5.2 Prepare and perform a complete urinalysis including microscopic and chemical evaluation
- 5.3 Identify bacteria, yeast, blood, and crystals in a urine sample and determine the specific gravity of the urine sample
- 5.4 Identify recommended treatments based on analysis

Unit 6: Host and Microbial Interaction (CLO 8)

Upon completion of this unit of instruction the student should be able to:

- 6.1 Define normal and transient microbiota, and describe the relationships between the host and the normal flora
- 6.2 Explain the role of normal microbiota as opportunistic pathogens, and define nosocomial infections and explain their importance
- 6.3 Describe the cycle (spread) of infection, including reservoirs, transmission, and portals of entry

Unit 7: Parasitology (CLO 8)

Upon completion of this unit of instruction the student should be able to:

- 7.1 Discuss life cycles, pre-patent periods, modes of transmission, and hosts of common internal and external parasites
- 7.2 Explain various laboratory tests used to identify internal and external parasites
- 7.3 Identify adult and larval stages of common internal and external parasites using proper taxonomy
- 7.4 Evaluate skin scrapings for identification of microscopic parasites such as demodex or sarcoptes
- 7.5 Set up and examine various fecal tests, such as direct smear, flotation, centrifugation, and sedimentation to determine presence of internal parasites
- 7.6 Perform a DTM test using proper collection techniques and determine presence of fungal disease
- 7.7 Perform an ear cytology using proper collection techniques and determine the presence of external parasites, yeast or bacterial organisms
- 7.8 Discuss appropriate treatments for elimination and control of parasites

San Joaquin Valley College
Course Outline

| ASCI 150 Essential Veterinary Skills | |
|---|--|
| General Topic | Specific Objective |
| Microscopy | <ol style="list-style-type: none"> 1. Identify the techniques required to maintain safety in the microbiological laboratory 2. Demonstrate the correct use of a compound light microscope 3. Identify the three basic morphologies of bacteria 4. Perform quality control of laboratory equipment |
| Staining of Bacteria | <ol style="list-style-type: none"> 5. Make and fix a smear 6. Perform a simple direct stain 7. Prepare a negative stain 8. Perform and interpret a Gram Stain 9. Interpret an acid-fast stain 10. Prepare and interpret structural stains 11. Identify the morphology and staining characteristics of an unknown organism (Gram Stain Only) |
| Serology | <ol style="list-style-type: none"> 12. Perform and evaluate an ELISA test |
| Blood Chemistry | <ol style="list-style-type: none"> 13. Perform and evaluate a hepatic profile and renal profile 14. Perform coagulation tests PT/APTT |
| Complete Blood Count | <ol style="list-style-type: none"> 15. Perform a blood smear and a differential CBC 16. Perform PCV% and TP |
| Urinalysis | <ol style="list-style-type: none"> 17. Collect a free catch urine sample 18. Observe the proper placement of a urinary catheter in a male dog and observe a cystocentesis 19. Perform a complete urinalysis |
| Parasitology | <ol style="list-style-type: none"> 20. Perform and evaluate a fecal floatation, direct fecal smear and a fecal sedimentation by centrifugation 21. Perform and evaluate a skin scraping |
| Cytology | <ol style="list-style-type: none"> 22. Prepare and evaluate an ear cytology for the presence of parasites, bacteria and fungus 23. Demonstrate the proper sample collection techniques used to test for dermatophyte culture 24. Collect, prepare and evaluate a vaginal cytology – Canine |

San Joaquin Valley College

Course Outline

Instructional Strategies and Methods for Assessing Student Learning Outcomes:

1. Critical Thinking Tasks and Assignments:

Through discussions, individual and group presentations, written assignments, and research papers and projects, students will demonstrate critical thinking skills and problem solving abilities that meet the standards outlined by the Student Learning Outcomes for this course. Each instructor must maintain an instructor portfolio with examples of all required assignments and activities.

2. Required Reading, Writing, Projects, and Outside of Class Assignments:

Each instructor must maintain a listing of all homework assignments including reading assignments, writing assignments, and projects.

3. Methods to Measure Achievement of Student Learning Outcomes:

Students in this course will be graded in the following categories:

a) Writing Assignments:

- Written homework
- Research papers
- Term or other papers

b) Computational or Non-Computational Problem Solving Demonstrations:

- Exams
- Homework problems
- Quizzes

c) Skill Demonstration:

- Individual and group presentations
- Performance exams
- Skill competencies
- Case studies

d) Objective Examinations:

- Multiple choice
- Matching items
- Fill-in-the-blanks
- Essays
- Short answer
- True or false

The evaluation of student performance is based on the scores received on quizzes, homework assignments, projects, skill performance, and objective examinations. All scores earned are converted to a percentage of the total scores possible within each course. The final grade in each course is determined by the percent ranges converted to the letter grade shown in the chart below.

| | | | | |
|---------------------|---|------|---|----|
| 90 | - | 100% | = | A |
| 80 | - | 89% | = | B |
| 70 | - | 79% | = | C |
| 65 | - | 69% | = | D* |
| Below | | 65% | = | F |
| * No Credit Awarded | | | | |

A grade of 'C' or better is required to pass this course.

San Joaquin Valley College

Course Outline

Division: Health Studies
Program: Veterinary Assisting

Course Number: ASCI 160
Course Name: Veterinary Technician Radiology and Ultrasound
Total Semester Units: 2.0
Total Hours: 45
Theory/Lecture Hours: 15
Application/Lab Hours: 30
Externship/Clinical Hours: 0

Course Description:

This course focuses on the fundamentals of veterinary radiology. The students will demonstrate quality assurance equipment testing, perform proper animal positioning, process films and verify image accuracy. Students will discuss the use of contrast studies, dental radiographs, ultrasound, CT, MRI and basic endoscopy. Students will explain the current state radiology safety regulations and requirements.

Course Learning Outcomes

Upon completion of this course, the student should be able to:

1. Demonstrate veterinary radiation control and safety regulations including the concepts of the ALARA principle.
2. Explain x-ray properties including Roentgen's properties of rays
3. Produce a quality diagnostic radiograph
4. Appraise conditions and techniques requiring precision diagnostics and varied techniques

Grade Item Weights

- 15% Projects/Homework
- 15% Quizzes
- 30% Skills
- 30% Exams
- 10% Professional Development

San Joaquin Valley College

Course Outline

Essential Veterinary Skills ASCI 160

1. Lateromedial Projection of the Metacarpophalangeal (Fetlock)
2. Dorsopalmar Projection of the Metacarpophalangeal or Metatarsophalangeal (Fetlock)
3. Proper use of Calipers
4. Automatic Processing: Labeling and Identification of Radiographic Film
5. Automatic Processing: Processing and Film Unloading / Loading
6. Preparation of a Radiographic Technique Chart (Group)
7. Properly position and develop diagnostic radiographs using 2 view technique ex. lateral position and ventrodorsal position
8. Properly position a dog or cat for 2 view radiographs for thoracic and abdominal cavity
9. Ventrodorsal Extended Pelvis Radiograph (OFA View) (Group)

Unit Objectives

Unit 1: Radiation Control Regulations and Safety (CLO 1)

Upon completion of this unit of instruction, the student should be able to:

- 1.1 Describe the occupational dose of x-rays
- 1.2 Describe accumulated and lifetime doses of x-rays
- 1.3 Discuss personnel monitoring and ALARA principle
- 1.4 Discuss the effects of radiation
- 1.5 Perform safety inspections of the x-ray room and equipment
- 1.6 Discuss radiation safety laws and application of safety regulations
- 1.7 Implement quality control and quality assurance measures

Unit 2: Terminology and Theory of Radiograph Production (CLO 2)

Upon completion of this unit of instruction, the student should be able to:

- 2.1 Discuss the diagnostic uses of the radiograph
- 2.2 Discuss artifacts and heel effect
- 2.3 Describe the production of radiographs and other electromagnetic energy waves
- 2.4 Identify and label the parts of the x-ray machine
- 2.5 Identify the various cassettes and films available for use
- 2.6 Integrate correct usage of anatomical, directional, and positional terminology to create a knowledgeable base vocabulary for client interaction
- 2.7 Review general principles in positioning and restraint
- 2.8 Execute and critique standard radiographic views for thorax, abdomen, pelvis, and extremities

San Joaquin Valley College

Course Outline

Unit 3: Radiographic Processing (CLOs 3, 4)

Upon completion of this unit of instruction, the student should be able to:

- 3.1 Differentiate between radiographic quality and quantity
- 3.2 Identify film processing criteria as it pertains to either kVp or MAs, and its role in image quality
- 3.3 Create a technique chart
- 3.4 Define source image distance and collimation
- 3.5 Correctly view and evaluate completed radiographs for accuracy
- 3.6 Properly position patients for imaging
- 3.7 Process radiographs automatically
- 3.8 Label radiograph with patient ID, positional markers, etc.
- 3.9 Troubleshoot radiographic failures and common processing errors

Unit 4: Special Diagnostic Procedures (CLO 4)

Upon completion of this unit of instruction, the student should be able to:

- 4.1 Discuss exposure factors in special applications
- 4.2 Discuss contrast radiography, barium, iodine and other media
- 4.3 Analyze a radiographic contrast study as a class project
- 4.4 Describe special applications in small animal skeletal radiography
- 4.5 Discuss the techniques and value of techniques such as ultrasonography, endoscopy, CT, MRI, orthopedics and others

San Joaquin Valley College

Course Outline

Instructional Strategies and Methods for Assessing Student Learning Outcomes:

1. Critical Thinking Tasks and Assignments:

Through discussions, individual and group presentations, written assignments, and research papers and projects, students will demonstrate critical thinking skills and problem solving abilities that meet the standards outlined by the Student Learning Outcomes for this course. Each instructor must maintain an instructor portfolio with examples of all required assignments and activities.

2. Required Reading, Writing, Projects, and Outside of Class Assignments:

Each instructor must maintain a listing of all homework assignments including reading assignments, writing assignments, and projects.

3. Methods to Measure Achievement of Student Learning Outcomes:

Students in this course will be graded in the following categories:

a) Writing Assignments:

- Written homework
- Research papers
- Term or other papers

b) Computational or Non-Computational Problem Solving Demonstrations:

- Exams
- Homework problems
- Quizzes

c) Skill Demonstration:

- Individual and group presentations
- Performance exams
- Skill competencies
- Case studies

d) Objective Examinations:

- Multiple choice
- Matching items
- Fill-in-the-blanks
- Essays
- Short answer
- True or false

The evaluation of student performance is based on the scores received on quizzes, homework assignments, projects, skill performance, and objective examinations. All scores earned are converted to a percentage of the total scores possible within each course. The final grade in each course is determined by the percent ranges converted to the letter grade shown in the chart below.

| | | | | |
|---------------------|---|------|---|----|
| 90 | - | 100% | = | A |
| 80 | - | 89% | = | B |
| 70 | - | 79% | = | C |
| 65 | - | 69% | = | D* |
| Below | | 65% | = | F |
| * No Credit Awarded | | | | |

A grade of 'C' or better is required to pass this course.

San Joaquin Valley College

Course Outline

Division: Health Studies
Program: Veterinary Assisting

Course Number: ASCI 170
Course Name: Veterinary Technology Surgical Assisting I
Total Semester Units: 5.0
Total Hours: 90
Theory/Lecture Hours: 60
Application/Lab Hours: 30
Externship/Clinical Hours: 0

Course Description:

In this course students will demonstrate essential veterinary surgical assisting skills such as asepsis, sterilization, instrumentation and medical documentation. The students will identify and explain the components of an anesthetic machine and their functions. The students will perform patient assessments, develop anesthetic protocols and monitor anesthesia.

Course Learning Outcomes

Upon completion of this course, the student should be able to:

1. Define the role of a veterinary surgical assistant including proper client communication skills
2. Identify common surgical instruments and explain methods of sterilization
3. Explain the function of an anesthetic machine and discuss the effects of the anesthetic drugs in a patient.
4. Perform a complete physical examination of a dog and cat, determine proper anesthetic protocol and calculate drug dosages for the pre-medication and induction agent.
5. Prepare the surgical patient for surgery and monitor patient vital signs during anesthesia
6. Demonstrate the proper protocols for maintenance, safety checking and care of all surgical equipment

Grade Item Weights

- 15% Projects/Homework
- 15% Quizzes
- 40% Skills
- 20% Exams
- 10% Professional Development

San Joaquin Valley College

Course Outline

Essential Veterinary Skills ASCI 170

1. Prepare and sterilize surgical instruments and properly assemble a surgical pack
2. Utilize proper sterile technique to open a sterilized surgical pack and a surgical gown and gloves.
3. Perform patient assessment and develop an anesthetic protocol
4. Perform a pre-anesthetic check and preparation of the anesthetic machine
5. Explain the purpose and benefits of pre-anesthetic medications, induction medications and gas anesthesia
6. Properly position and prepare a surgical patient including intravenous catheter placement, endotracheal placement and calculating the intravenous fluid rates
7. Monitor a surgical patient during anesthesia and during recovery
8. Administer subcutaneous fluids and intravenous fluids to a dog or cat
9. Produce a diagnostic ECG tracing

Unit Objectives

Unit 1: Instrumentation and Aseptic Technique (CLOs 1, 2)

Upon completion of this unit of instruction, the student should be able to:

- 1.1 Introduction to the Veterinary Technician role and responsibilities in a surgical setting
- 1.2 Identify the types of surgical instruments and describe their use and proper care
- 1.3 Explain the difference between sterile and non-sterile techniques
- 1.4 Clean, prepare and wrap surgical instruments for autoclave sterilization
- 1.5 Maintain a sterile surgical field with instruments and the surgical patient
- 1.6 Explain the difference between sterile and non-sterile

Unit 2: Anesthetics (CLOs 3, 4)

Upon completion of this unit of instruction, the student should be able to:

- 2.1 Explain the components and functions of anesthetic machines
- 2.2 Discuss the drug classification and effects of anesthetic, analgesic agents and determine the ideal route of administration
- 2.3 Identify the stages and planes to assess the depth of general anesthesia
- 2.4 Discuss assessing vitals and reflexes during anesthesia
- 2.5 Identify properties and effects of inhalation anesthetics

Unit 3: Surgical Patient Care and Patient Monitoring (CLOs 4, 5)

Upon completion of this unit of instruction, the student should be able to:

- 3.1 Discuss the steps of a physical exam, including taking a patient history
- 3.2 Perform the following procedures:
 - 3.2.1 Place an indwelling intravenous catheter
 - 3.2.2 Perform an endotracheal intubation and ventilation of a patient
 - 3.2.3 Prepare the surgical site and position the surgical patient

San Joaquin Valley College

Course Outline

- 3.2.4 Properly monitor and interpret patient vital signs during an anesthetic procedure (including but not limited to blood pressure measurement, electrocardiography, and oximetry)
- 3.3 Demonstrate the use of anesthetic monitoring equipment
- 3.4 Describe the needs of a recovering patient and the role of the veterinary technician

Unit 4: Medical Records and Client Communication (CLO 1)

Upon completion of this unit of instruction, the student should be able to:

- 4.1 Properly record surgical and recovery data in the patient record and surgical log
- 4.2 Properly record anesthetics in the controlled drug log
- 4.3 Generate billing invoices
- 4.4 Discuss the protocol used to admit a patient for surgery.
- 4.5 Discuss client communication and patient discharge protocols for post-surgery care, diet and exercise

Unit 5: Post-surgical maintenance and care (CLO 6)

Upon completion of this unit of instruction, the student should be able to:

- 5.1 Discuss the proper surgical room cleaning protocols
- 5.2 Demonstrate the proper steps to maintain and store surgical equipment
- 5.3 Demonstrate the proper steps to safety check all surgical equipment

San Joaquin Valley College

Course Outline

Instructional Strategies and Methods for Assessing Student Learning Outcomes:

1. Critical Thinking Tasks and Assignments:

Through discussions, individual and group presentations, written assignments, and research papers and projects, students will demonstrate critical thinking skills and problem solving abilities that meet the standards outlined by the Student Learning Outcomes for this course. Each instructor must maintain an instructor portfolio with examples of all required assignments and activities.

2. Required Reading, Writing, Projects, and Outside of Class Assignments:

Each instructor must maintain a listing of all homework assignments including reading assignments, writing assignments, and projects.

3. Methods to Measure Achievement of Student Learning Outcomes:

Students in this course will be graded in the following categories:

a) Writing Assignments:

- Written homework
- Research papers
- Term or other papers

b) Computational or Non-Computational Problem Solving Demonstrations:

- Exams
- Homework problems
- Quizzes

c) Skill Demonstration:

- Individual and group presentations
- Performance exams
- Skill competencies
- Case studies

d) Objective Examinations:

- Multiple choice
- Matching items
- Fill-in-the-blanks
- Essays
- Short answer
- True or false

The evaluation of student performance is based on the scores received on quizzes, homework assignments, projects, skill performance, and objective examinations. All scores earned are converted to a percentage of the total scores possible within each course. The final grade in each course is determined by the percent ranges converted to the letter grade shown in the chart below.

A grade of 'C' or better is required to pass this course.

| | | | | |
|---------------------|---|------|---|----|
| 90 | - | 100% | = | A |
| 80 | - | 89% | = | B |
| 70 | - | 79% | = | C |
| 65 | - | 69% | = | D* |
| Below | | 65% | = | F |
| * No Credit Awarded | | | | |

San Joaquin Valley College

Course Outline

Division: Health Studies
Program: Veterinary Assisting

Course Number: ASCI 180
Course Name: Veterinary Technology Surgical Assisting II
Total Semester Units: 3.0
Total Hours: 45
Theory/Lecture Hours: 45
Application/Lab Hours: 0
Externship/Clinical Hours: 0

Course Description:

This course focuses on special surgical nursing techniques. Students will demonstrate proper suture selection, proper suturing techniques and perform the role of a surgical assistant. Students will perform and discuss the proper emergency response protocols and analyze emergency and critical care situations. The students will explain the proper techniques required to place a bandage, cast and splint on a dog or cat.

Course Learning Outcomes

Upon completion of this course, the student should be able to:

1. Develop proper patient assessment and anesthetic protocols
2. Identify and categorize the skills and instrumentation necessary for assisting in dental procedures
3. Demonstrate procedures for dental prophylaxis and extractions on anesthetized patients
4. Perform the role of a surgical assistant
5. Demonstrate proper suturing techniques
6. Demonstrate proper bandage, cast and splint placement
7. Demonstrate proper emergency triage procedures and identify appropriate treatments

Grade Item Weights

- 15% Projects/Homework
- 15% Quizzes
- 40% Skills
- 20% Exams
- 10% Professional Development

San Joaquin Valley College

Course Outline

| Essential Veterinary Skills ASCI 180 |
|---|
| <ol style="list-style-type: none">1. Perform Closed-Chest Cardiopulmonary Resuscitation (CPR) – Small Animal2. Demonstrate proper suturing techniques and suture removal3. Perform a complete dental prophylaxis on a dog or cat4. Calculate, monitor and maintain catheter and intravenous fluids5. Demonstrate closed gloving techniques as a scrub nurse |

Unit Objectives

Unit 1: Dental Prophylaxis and Extraction (CLOs 2, 3)

Upon completion of this unit of instruction, the student should be able to:

- 1.1 Discuss dental anatomy
- 1.2 Identify instrumentation, props, and equipment used for dental procedures
- 1.3 Recognize terminology pertaining to dental prophylaxis
- 1.4 Identify the normal anatomy of the canine and feline oral cavity
- 1.5 Describe the hand instrumentation utilized in dental prophylaxis
- 1.6 Describe the use of power scalers in the dental prophylaxis
- 1.7 Identify the procedures for dental prophylaxis
- 1.8 Describe the proper procedure for extraction of a tooth
- 1.9 Describe the care and maintenance of dental equipment

Unit 2: Suture Techniques (CLO 5)

Upon completion of this unit of instruction, the student should be able to:

- 2.1 Practice common suture techniques
- 2.2 Describe and identify common suture materials
- 2.3 Compare uses and properties of different suture materials
- 2.4 Explain concepts and steps of wound healing and suture removal
- 2.5 Explain proper suture and needle selections

Unit 3: Surgical Assisting (CLOs 1, 4)

Upon completion of this unit of instruction, the student should be able to:

- 3.1 Prep an animal for surgery
- 3.2 Scrub in and assist the doctor
- 3.3 Suture incisions
- 3.4 Perform restraints for IVC placement, intubation
- 3.5 Write surgery reports
- 3.6 Record medications in log books; controlled substance log when required
- 3.7 Write up and discuss with client post-operative care instructions
- 3.8 Fill any post-op prescriptions

San Joaquin Valley College
Course Outline

Unit 4: Splints, Bandages and Casts (CLO 6)

Upon completion of this unit of instruction, the student should be able to:

- 4.1 Identify the common types of splints, bandages and casts
- 4.2 Describe the uses of splints, bandages and casts
- 4.3 Properly apply common splints, bandages and casts

Unit 5: Emergency Care and Planning (CLO 7)

Upon completion of this unit of instruction, the student should be able to

- 5.1 Identify drugs for an emergency crash cart or tray
- 5.2 Identify anesthetic emergencies
- 5.3 Identify and assess emergency and critical care situations
- 5.4 Analyze common emergency situations and identify appropriate treatments
- 5.5 Perform basic pet CPR and First Aid

San Joaquin Valley College

Course Outline

Instructional Strategies and Methods for Assessing Student Learning Outcomes:

1. Critical Thinking Tasks and Assignments:

Through discussions, individual and group presentations, written assignments, and research papers and projects, students will demonstrate critical thinking skills and problem solving abilities that meet the standards outlined by the Student Learning Outcomes for this course. Each instructor must maintain an instructor portfolio with examples of all required assignments and activities.

2. Required Reading, Writing, Projects, and Outside of Class Assignments:

Each instructor must maintain a listing of all homework assignments including reading assignments, writing assignments, and projects.

3. Methods to Measure Achievement of Student Learning Outcomes:

Students in this course will be graded in the following categories:

a) Writing Assignments:

- Written homework
- Research papers
- Term or other papers

b) Computational or Non-Computational Problem Solving Demonstrations:

- Exams
- Homework problems
- Quizzes

c) Skill Demonstration:

- Individual and group presentations
- Performance exams
- Skill competencies
- Case studies

d) Objective Examinations:

- Multiple choice
- Matching items
- Fill-in-the-blanks
- Essays
- Short answer
- True or false

The evaluation of student performance is based on the scores received on quizzes, homework assignments, projects, skill performance, and objective examinations. All scores earned are converted to a percentage of the total scores possible within each course. The final grade in each course is determined by the percent ranges converted to the letter grade shown in the chart below.

A grade of 'C' or better is required to pass this course.

| | | | | |
|---------------------|---|------|---|----|
| 90 | - | 100% | = | A |
| 80 | - | 89% | = | B |
| 70 | - | 79% | = | C |
| 65 | - | 69% | = | D* |
| Below | | 65% | = | F |
| * No Credit Awarded | | | | |

San Joaquin Valley College

Course Outline

Division: Health Studies
Program: Veterinary Assisting

Course Number: ASCI 210
Course Name: Externship
Total Semester Units: 3.0
Total Hours: 0
Theory/Lecture Hours: 0
Application/Lab Hours: 0
Externship/Clinical Hours: 135

Course Description:

This course provides continued work experience in a clinical setting under direct supervision of a veterinarian or RVT associated with the college. Students will submit a completed supervisor evaluation, based on job tasks performed in the practice. The teaching/learning facility will provide appropriate supervision and evaluation of student performance under the direction of Externship Coordinator. The grade earned in this course is Pass/Fail. Passing this course is a graduation requirement.

Prerequisites

- Completion of all programmatic coursework
- Submit all required documents and complete all SJVC and site requirements prior to externship assignment

Course Learning Outcomes

Upon completion of this course, the student will be able to:

1. Demonstrate competencies, techniques, and procedures in the clinical or practical environment
2. Demonstrate appropriate attitude, communication skills, punctuality, and other professional attributes

Grade Item Weights

- 100% Skills

San Joaquin Valley College

Course Outline

Unit Objectives

Unit 1: Professional Experience (CLOs 1, 2)

Upon completion of this unit of instruction, the student should be able to:

- 1.1 Apply the skills, techniques, and procedures learned in the SJVC program to the clinical or practical environment
- 1.2 Demonstrate professional behavior
- 1.3 Arrive to work on time and attend all assigned hours
- 1.4 Submit all timesheets and paperwork to SJVC and site supervisor at designated intervals by established date
- 1.5 Comply with all site and supervisor policies and protocol
- 1.6 Comply with all state, federal and accrediting body regulations
- 1.7 Demonstrate the ability to work with multiple supervisors and co-workers
- 1.8 Communicate with a professional, positive, and problem-solving attitude
- 1.9 Communicate all challenges to Extern/Clinical Coordinator immediately
- 1.10 Complete all assigned tasks
- 1.11 Take initiative with supervisor approval
- 1.12 Report all incidents (work related injury and/or illness) immediately to the site supervisor and the SJVC externship coordinator. (NOTE: if employed by extern site, all work related injuries/illnesses will be handled through the site's workers compensation insurance)
- 1.13 Prioritize the safety of patients and conform to clinical rules related to safe patient care
- 1.14 Assist as needed in the clinic with general exams, surgeries, and any other procedures
- 1.15 Chart procedures (documentation)
- 1.16 Sanitize, disinfect and sterilize instruments, tray set-ups
- 1.17 Perform injections to include intradermal, subcutaneous, venipuncture, and intramuscular
- 1.18 Collect fluids required for lab analysis
- 1.19 Complete laboratory exams as required
- 1.20 Perform basic front office skills: phone, reception, greeting patients, and payment collection

San Joaquin Valley College

Course Outline

Methods of Assessment:

The evaluation of student performance is based on the completion of student and clinical extern site evaluation.

Externship grading procedures:

Course passing requirements

Excellent (E)

Student exceeds expected performance levels. Student shows exceptional aptitude and understanding of assigned task. Student requires minimal supervision, completes work with very few errors and demonstrates a high level of professionalism.

Satisfactory (S)

Student performs above minimum achievement level. Student follows instructions, is motivated, follows assigned schedule, requires basic supervision. Student completes work with errors, is able to correct the errors without consequences, understands the reasoning and does not repeat errors.

Minimum (M)

Student meets expectations & performs requirements at a beginner's level. Student completes work with errors, is able to correct errors without consequences and/or may require supervision.

Needs Improvement (N)

Student is capable of meeting minimum achievements, but needs practice and additional experience.

Course fail:

Unsatisfactory (U)

Student did not perform to necessary entry level expectations in the field and has fallen below the needs improvement level. Student is not prepared to enter the workforce.