EATM M116: CLINICAL PROCEDURES IN ANIMAL CARE II

Originator
Ishapiro

College
Moorpark College

Attach Support Documentation (as needed)
RVTProgramJustification.pdf
RVTProgramCourseRequirements.docx

Discipline (CB01A)
EATM - Exotic Animal Training Mgmt

Course Number (CB01B)
M116

Course Title (CB02)
Clinical Procedures in Animal Care II

Banner/Short Title
Clin Pro in Animal Care II

Credit Type
Credit

Honors
No

Start Term
Fall 2020

Catalog Course Description
Prepares the advanced veterinary technology student for practice in a small animal veterinary hospital, with particular focus on the areas of anesthesiology and surgery. Discusses the pharmacology of anesthetic agents, troubleshooting during general anesthesia, and actions taken in emergency situations. Investigates the veterinary technician's role as a member of the surgical team. Explores in-depth assessment of pain, and its pharmacological and non-pharmacological management.

Taxonomy of Programs (TOP) Code (CB03)
0102.10 - *Veterinary Technician (Licensed)

Course Credit Status (CB04)
D (Credit - Degree Applicable)

Course Transfer Status (CB05) (select one only)
B (Transferable to CSU only)

Course Basic Skills Status (CB08)
N - The Course is Not a Basic Skills Course

SAM Priority Code (CB09)
C - Clearly Occupational

Course Cooperative Work Experience Education Status (CB10)
N - Is Not Part of a Cooperative Work Experience Education Program

Course Classification Status (CB11)
Y - Credit Course

Educational Assistance Class Instruction (Approved Special Class) (CB13)
N - The Course is Not an Approved Special Class

Course Prior to Transfer Level (CB21)
Y - Not Applicable

Course Noncredit Category (CB22)
Y - Credit Course

Funding Agency Category (CB23)
B - Partially Developed Using Economic Development Funds

Course Program Status (CB24)
1 - Program Applicable

General Education Status (CB25)
Y - Not Applicable

Support Course Status (CB26)
N - Course is not a support course

Field trips
Will not be required

Grading method
Letter Graded

Alternate grading methods
Credit by exam, license, etc.

Does this course require an instructional materials fee?
No

Repeatable for Credit
No

Units and Hours

Carnegie Unit Override
No

In-Class

Lecture
Minimum Contact/In-Class Lecture Hours
35
Maximum Contact/In-Class Lecture Hours
35

Activity

Laboratory

Total in-Class

Total in-Class
Total Minimum Contact/In-Class Hours
35
Total Maximum Contact/In-Class Hours
35

Outside-of-Class

Internship/Cooperative Work Experience

Paid

Unpaid

Total Outside-of-Class

Total Outside-of-Class
Minimum Outside-of-Class Hours
70
Maximum Outside-of-Class Hours
70

Total Student Learning

Total Student Learning
Total Minimum Student Learning Hours
105
Total Maximum Student Learning Hours
105

Minimum Units (CB07)
2
Maximum Units (CB06)
2

Prerequisites
EATM M114 and EATM M114L

Corequisites
EATM M116L

Limitations on Enrollment
Criminal background clearance
Drug and alcohol clearance
Fingerprint clearance
Current negative TB test or chest x-ray
Others (specify)
No visible tattoos or visible body piercings except single studs in earlobes

Other Limitations on Enrollment
1. Admission to the Moorpark College Registered Veterinary Technology Program
2. Current tetanus vaccination

Entrance Skills

Entrance Skills
EATM M114
1. discuss the legal, ethical and medical importance of medical records.
2. describe the use and function of the POMR (Problem-oriented medical record) system of medical record keeping.
3. identify pertinent information needed to obtain an accurate patient history on the animal.
4. describe the various parts of the physical examination that are necessary to determine a diagnosis.
5. describe the mathematical functions used to calculate medication dosages.
6. discuss the type of medications and route of administration that are safe for various disorders in animals.
7. explain the types of fluid administered to animals for fluid resuscitation.
8. describe the set-up of fluid delivery equipment in terms of threading the tubing and entering the volume and rate for infusion.
9. describe the various types of anesthesia, their administration, uses and effects.
10. identify the various pieces of anesthetic monitoring equipment and their function.
11. describe normal and abnormal vital signs and reflexes during local and general anesthesia.
12. explain the mechanism of wound healing and the factors that delay or promote wound healing.
13. recognize commonly used suture materials, patterns, and indications for use.
14. describe the concepts of sterility for surgical procedures and evaluate the role of the surgical veterinary technician in maintenance of sterility.
15. discuss signs of dental disease in small animals to differentiate between normal and abnormal dental conditions that require dental procedures.

16. Identify dental instrumentation by name, function and application.

EATM M114L
1. handle safely and restrain small animals for various veterinary procedures.
2. obtain an accurate patient history from the owner.
3. perform a physical examination and interpret results on companion animals.
4. construct and enter data into medical records, both written and digital.
5. perform basic maneuvers in a veterinary software package.
6. correctly administer medication via parenteral routes.
7. correctly perform venipuncture for blood collection and intravenous (IV) administration.
8. accurately calculate drug dosages.
9. perform endotracheal intubation on a dog and cat.
10. perform a cystocentesis on a male and female dog and cat.
11. insert an intravenous (IV) catheter; calculate fluid rates and administer fluids.
12. operate safely and maintain anesthetic equipment.
13. operate and maintain anesthetic monitoring equipment.
14. perform a necropsy on a small animal and identify normal and abnormal anatomy.
15. place a cast on a small animal.
16. demonstrate aseptic technique and correctly execute sterile transfer methods.

Requisite Justification

Requisite Type
Prerequisite

Requisite
EATM M114

Requisite Description
Course in a sequence

Level of Scrutiny/Justification
Required by statute or regulation

Requisite Type
Prerequisite

Requisite
EATM M114L

Requisite Description
Course in a sequence

Level of Scrutiny/Justification
Required by statute or regulation

Requisite Type
Corequisite

Requisite
EATM M116L

Requisite Description
Course in a sequence

Level of Scrutiny/Justification
Closely related lecture/laboratory course

Requisite Type
Enrollment Limitation

Requisite

1. Criminal background clearance; 2. Current negative TB test or chest x-ray; 3. Drug and alcohol clearance; 4. Fingerprint clearance; 5. No visible tattoos or visible body piercings except single studs in earlobes. Other: 1. Admission to the Moorpark College Registered Veterinary Program; 2. Current tetanus vaccination

Requisite Description

Credit program requisite (credit only)

Level of Scrutiny/Justification

Required by statute or regulation

Student Learning Outcomes (CSLOs)

	Upon satisfactory completion of the course, students will be able to:
1	explain the importance of obtaining a complete history and performing a physical exam in evaluating the animal's health status.
2	calculate the drug dosages and appropriate fluid therapy based on the prescription for the animal.
3	design an anesthetic monitoring plan for a given small animal undergoing general anesthesia.

Course Objectives

	Upon satisfactory completion of the course, students will be able to:
1	describe the properties and interactions of preanesthetic drugs, injectable anesthetics, local anesthetics and inhalation anesthetics.
2	discuss safe combinations of agents for a given species, breed, age, and disease or disorder.
3	identify the correct method of administration of inhalation anesthetics based on animal size, conformation and health.
4	describe the proper operation and maintenance of inhalation anesthetic machines and ventilation equipment.
5	explain the principles and practices of local and epidural anesthetics and validate their use in the veterinary hospital.
6	construct effective anesthetic troubleshooting plans through all phases of anesthesia; integrating the animal's presurgical state, pharmacological agents used, anesthetic machines and breathing systems, and monitoring equipment data.
7	recognize commonly used suture materials, patterns, and their method of use.
8	integrate the principles of analgesia, recognition of pain, and pharmacology of anesthetic drugs to synthesize an optimal pain management plan for surgical patients in the pre-operative, intra-operative, and post-operative time periods.
9	explain the concepts of sterility and sterile procedures during surgery and the role of the veterinary surgical team in the maintenance of sterility.
10	examine avian and exotic animal anesthetic techniques.
11	recognize signs of dental disease in small animals and differentiate between normal and abnormal dental conditions to determine need for dental procedures.
12	identify dental instrumentation by name, function, and application.

Course Content

Lecture/Course Content

(5.7%) Pre-Anesthetic Time Period
(5.7%) Pre-Anesthetic Agents
(5.7%) Injectable Anesthetics
(5.7%) Inhalant Anesthetics
(8%) Anesthetic Emergencies
(8%) Anesthetic Troubleshooting
(5.7%) Anesthetic Machines
(5.7%) Breathing Systems
(5.7%) Ventilation
(5.7%) Local Anesthesia

(5.7%) Principles of Sterility
(5.7%) Suture Materials and Methods
(11%) Analgesia
(11%) Surgical Procedures
(5%) Avian and Exotic Anesthesia

Laboratory or Activity Content

n/a

Methods of Evaluation

Which of these methods will students use to demonstrate proficiency in the subject matter of this course? (Check all that apply):

Problem solving exercises
Written expression

Methods of Evaluation may include, but are not limited to, the following typical classroom assessment techniques/required assignments (check as many as are deemed appropriate):

Essay exams
Group projects
Individual projects
Journals
Mathematical proofs
Objective exams
Problem-solving exams
Quizzes
Reports/papers
Research papers

Instructional Methodology

Specify the methods of instruction that may be employed in this course

Collaborative group work
Class activities
Class discussions
Case studies
Demonstrations
Field trips
Group discussions
Guest speakers
Instructor-guided interpretation and analysis
Instructor-guided use of technology
Lecture
Small group activities

Describe specific examples of the methods the instructor will use:

PowerPoint presentations, instructor-guided interpretation and analysis, group discussion, weekly journal-reflections on learner's problem solving process.

Representative Course Assignments

Writing Assignments

Write a journal review for a professional article on surgical or dental procedures performed on animals.

Complete reflection journals on topics covered in the course such as avian and exotic animal anesthesia.

Write a Capstone Research Paper on a topic covered on the pre-operative, intra-operative, and post-operative management of animals.

Critical Thinking Assignments

Analyze the effects of anesthetic drug combinations to develop an anesthetic monitoring plan to prevent complications.

Develop a plan for the operation, maintenance, and troubleshooting of the anesthetic machine.

Evaluate a surgical case scenario to identify the best plan of action for the animal's comfort and safety.

Reading Assignments

Read relevant pages from the textbooks pertaining to topics covered in class such as anesthetic techniques and surgical procedures performed on animals.

Complete reading assignments from veterinary medicine and veterinary technology journal articles pertaining to such topics as anesthetic emergencies.

Outside Assignments

Representative Outside Assignments

View the videos in the learning management system on surgical and dental procedures performed on animals in preparation for class discussions.

Work on the topic related to the anesthetic and surgical management of animals that is selected for the group project.

Articulation

Comparable Courses within the VCCCD

AG V72 - Advanced Veterinary Clinical Procedures

Equivalent Courses at other CCCs

College	Course ID	Course Title	Units
L.A. Pierce College	ANML SC 422	Clinical Procedures in Animal Care II	2

District General Education

A. Natural Sciences

B. Social and Behavioral Sciences

C. Humanities

D. Language and Rationality

E. Health and Physical Education/Kinesiology

F. Ethnic Studies/Gender Studies

Course is CSU transferable

Yes

CSU Baccalaureate List effective term:

FALL 2020

CSU GE-Breadth

Area A: English Language Communication and Critical Thinking

Area B: Scientific Inquiry and Quantitative Reasoning

Area C: Arts and Humanities

Area D: Social Sciences

Area E: Lifelong Learning and Self-Development

CSU Graduation Requirement in U.S. History, Constitution and American Ideals:

IGETC

Area 1: English Communication

Area 2A: Mathematical Concepts & Quantitative Reasoning

Area 3: Arts and Humanities

Area 4: Social and Behavioral Sciences

Area 5: Physical and Biological Sciences

Area 6: Languages Other than English (LOTE)

Textbooks and Lab Manuals

Description

Bassert, Joanna. *McCurnin's Clinical Textbook for Veterinary Technicians.* 9th ed., Saunders, 2018.

Description

Thomas, John, and Philip Lerche. *Anesthesia and Analgesia for Veterinary Technicians*. 5th ed., Mosby, 2016.

Library Resources

Assignments requiring library resources

Research using the Library's print and online resources pertaining to anesthetic agents and surgical procedures performed on animals.

Sufficient Library Resources exist

Yes

Example of Assignments Requiring Library Resources

Utilize the Library's print and online resources to research topics such as the pharmacological agents and dosages used to provide general anesthesia to various animals for surgical procedures.

Primary Minimum Qualification

ANIMAL TRAINING & MANAGEMENT

Additional Minimum Qualifications

Minimum Qualifications
Biological Sciences

Additional local certifications required

RVT or DVM or PhD in related field

Review and Approval Dates

Department Chair
12/07/2019

Dean
12/09/2019

Technical Review
01/31/2020

Curriculum Committee
02/04/2020

DTRW-I
02/13/2020

Curriculum Committee
MM/DD/YYYY

Board
03/10/2020

CCCCO
MM/DD/YYYY

DOE/accreditation approval date
MM/DD/YYYY