

EATM M124L: LABORATORY ANIMAL CARE LABORATORY

Originator

Ishapiro

College

Moorpark College

Attach Support Documentation (as needed)

RVTProgramJustification.pdf

RVTProgramCourseRequirements.docx

Discipline (CB01A)

EATM - Exotic Animal Training Mgmt

Course Number (CB01B)

M124L

Course Title (CB02)

Laboratory Animal Care Laboratory

Banner/Short Title

Laboratory Animal Care Lab

Credit Type

Credit

Honors

No

Start Term

Fall 2020

Catalog Course Description

Provides hands-on learning experience with laboratory animal care and husbandry. Includes the care and restraint of primates, rabbits, guinea pigs, rodents and other small lab animals. Emphasizes the compliance with laboratory regulations while participating in an animal laboratory setting.

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

May be required

Faculty notes on field trips; include possible destinations or other pertinent information

Students will be placed at laboratory animal facilities to obtain required hands-on experience with laboratory animals.

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

Is this course part of a family?

No

Units and Hours

Carnegie Unit Override

No

In-Class

Lecture

Activity

Laboratory

Minimum Contact/In-Class Laboratory Hours

52.5

Maximum Contact/In-Class Laboratory Hours

52.5

Total in-Class

Total in-Class

Total Minimum Contact/In-Class Hours

52.5

Total Maximum Contact/In-Class Hours

52.5

Outside-of-Class**Internship/Cooperative Work Experience**

Paid

Unpaid

Total Outside-of-Class

Total Outside-of-Class

Total Student Learning**Total Student Learning****Total Minimum Student Learning Hours**

52.5

Total Maximum Student Learning Hours

52.5

Minimum Units (CB07)

1

Maximum Units (CB06)

1

Prerequisites

EATM M114 and EATM M114L

Corequisites

EATM M124

Limitations on Enrollment

Criminal background clearance

Current CPR certification for health care provider (American Heart Association) or professional rescuer (American Red Cross)

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 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, EATM M114L

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Required by statute or regulation

Requisite Type

Corequisite

Requisite

EATM M124

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	demonstrate the ability to carry out appropriate therapeutic techniques based on the directions of the veterinarian and the characteristics of the lab animal patient.
2	demonstrate proper technique to successfully restrain mice, rats and rabbits.
3	demonstrate proper husbandry care for the common laboratory animal species (mice, rats and rabbits).

Course Objectives

Upon satisfactory completion of the course, students will be able to:	
1	discuss the significance of lab animal medicine and how it is used to advance biomedical knowledge.
2	demonstrate the tasks commonly performed by a veterinary technician in a lab animal setting.
3	design a husbandry plan for the common laboratory animal species.
4	demonstrate proper husbandry care for the common laboratory animal species of mice, rats, rabbits, guinea pigs, and primates.
5	demonstrate common restraint techniques of laboratory animals to perform medical procedures.
6	Follow the rules, laws, and guidelines for laboratory animals while in the laboratory animal setting.

Course Content

Lecture/Course Content

n/a

Laboratory or Activity Content

(11.4%) Introduction to lab animal facilities.

(28.5%) Rat husbandry, handling, physical examination and therapeutics

(25.7%) Mouse husbandry, handling, physical examination and therapeutics

(34.40%) Rabbit husbandry, handling, physical examination and therapeutics

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
Skills demonstrations
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):

Clinical demonstration
Group projects
Individual projects
Journals
Laboratory activities
Laboratory reports
Reports/papers
Research papers
Skills demonstrations
Skill tests
Treatment plans

Instructional Methodology

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

Collaborative group work
Clinical demonstrations
Demonstrations
Field trips
Group discussions
Internet research

Laboratory activities

Describe specific examples of the methods the instructor will use:

Demonstrate skills and provide guidance as students perform the skills.

Observe and provide feedback to assist students in the mastery of skills.

Representative Course Assignments

Writing Assignments

Write lab reports describing husbandry, handling and medication techniques of the major species for laboratory animals.

Write an essay on major welfare concerns of each species handled in the laboratory.

Critical Thinking Assignments

Analyze and evaluate the care, handling and medication techniques of the animal in a given case scenario.

Critique the techniques used to restrain animals in the video clips shown of the procedure.

Reading Assignments

Read chapters from the textbook that correspond with lecture topics on laboratory animals.

Read chapters from Applied Animal Ethics textbook regarding welfare concerns in lab animal medicine.

Review Animal Welfare regulations prior to handling of any laboratory animals.

Skills Demonstrations

Demonstrate proficiency in the restraint of rabbits, guinea pigs, rodents and other small lab animals.

Demonstrate sanitation and proper animal welfare techniques in the care of laboratory animals.

Outside Assignments

Articulation

Comparable Courses within the VCCCD

AG V74 - Introduction to Laboratory Animal and Exotic Companion Animal Medicine

Equivalent Courses at other CCCs

College	Course ID	Course Title	Units
L.A. Pierce College	ANML SC 470	Laboratory Animal Medicine	3

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****Resource Type**

Manual

Description

Laboratory Animal Medicine: Principles and Procedures Margi Sirois 2016
 McCurnin's Clinical Textbook for Veterinary Technicians
 Joanna M. Bassert 2018

Resource Type

Textbook

Classic Textbook

No

Description

McCurin's Clinical Textbook for Veterinary Technicians, Joanna M. Bassert, 2018

Library Resources**Assignments requiring library resources**

Research for lab reports on laboratory animals

Sufficient Library Resources exist

Yes

Example of Assignments Requiring Library Resources

Utilize library print and online resources to complete lab reports on topics such as the husbandry, handling, restraint, and medication techniques for the primate laboratory animal.

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