ANSC M09L: ANIMAL BEHAVIOR LAB

Originator
gwilson

Co-Contributor(s)

Name(s)
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College
Moorpark College

Discipline (CB01A)
ANSC - Animal Science

Course Number (CB01B)
M09L

Course Title (CB02)
Animal Behavior Lab

Banner/Short Title
Animal Behavior Lab

Credit Type
Credit

Start Term
Fall 2022

Co-listed (Same-as) Course(s)
EATM M09L

Taxonomy of Programs (TOP) Code (CB03)

0102.00 - *Animal Science

SAM Priority Code (CB09)

C - Clearly Occupational

Control Number

CCC000434086

Primary Minimum Qualification

ANIMAL TRAINING & MANAGEMENT

Department

Animal Science/Exotic Animal Training and Management (EATM) (1002)

Division

MC ATZ, EATM, Health & Life Sciences

Formerly
ANSC M04L - Animal Behavior Lab

Catalog Course Description
Provides students with opportunities to develop skills in behavior modification and observational research. Requires students to demonstrate such skills through training a rat and conducting observational research on animals under professional care.

Additional Catalog Notes
Student must be able to house and care for one or more domestic rats.

Taxonomy of Programs (TOP) Code (CB03)
0102.00 - *Animal Science

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)
Y - Not Applicable (Funding Not Used)

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
(L) Letter Graded

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
26.25
Maximum Contact/In-Class Laboratory Hours
26.25

Total in-Class

Total in-Class
Total Minimum Contact/In-Class Hours
26.25
Total Maximum Contact/In-Class Hours
26.25

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
26.25
Total Maximum Student Learning Hours
26.25

Minimum Units (CB07)
.5
Maximum Units (CB06)
.5

Prerequisites
ANSC M09 or concurrent enrollment

Entrance Skills

Entrance Skills
ANSC M09 or concurrent enrollment

Prerequisite Course Objectives
ANSC M09-compare the different ways in which behavior can be examined.
ANSC M09-describe the different types of learning which have been observed in animals.

ANSC M09-discuss how genetically-determined and environmentally-determined factors influence the development of behavior patterns and how behavior is controlled by the nervous and endocrine systems.
ANSC M09-identify the different types of social organization seen in animals, in general, and in primates and cetaceans, in particular.
ANSC M09-compare the advantages and disadvantages of different modes of communication, the importance of such modes to different classes of animals, and the evolution of interspecies similarities in vocalizations of terrestrial vertebrates.
ANSC M09-describe how the evolution of behavior is studied and how natural selection operates.
ANSC M09-describe the major issues in examining animal intelligence.
ANSC M09-describe the most common types of abnormal behaviors exhibited by animals under professional care and a variety of methods for providing environmental enrichment to such animals.
ANSC M09-explain the application of various behavior modification techniques to the management of animals under professional care.

Requisite Justification

Requisite Type
Prerequisite

Requisite
ANSC M09 or concurrent enrollment

Requisite Description
Course in a sequence

Level of Scrutiny/Justification
Closely related lecture/laboratory course

Requisite Type
Concurrent

Requisite
ANSC M09

Requisite Description
Corequisite

Level of Scrutiny/Justification
Closely related lecture/laboratory course

Student Learning Outcomes (CSLOs)

	Upon satisfactory completion of the course, students will be able to:
1	demonstrate at least 70% proficiency in laboratory exercises in applying operant conditioning principles to the training of a rat.
2	demonstrate an understanding of methods for conducting scientific observations of live animals under professional care.

Course Objectives

	Upon satisfactory completion of the course, students will be able to:
1	apply the principles of operant and classical conditioning in the training of a rat.
2	utilize a scientifically recognized method to the collection of behavioral data on live animals.
3	describe different sampling methods for the collection of observational data.
4	design a data collection form.

Course Content

Lecture/Course Content
N.A.

Laboratory or Activity Content
45% Operant and classical conditioning in the training of a rat
55% Behavioral research in a zoo setting

Methods of Evaluation

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

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):
Performances
Research papers
Skills demonstrations
Other (specify)
Reports/Papers/Journals

Other
Students will collect data on zoo animals using focal animal sampling, and complete a lab write-up based on observations of zoo animals. Demonstrate operant conditioning skills by training a rat to run through an obstacle course. Classically condition rat to sound of bridging stimulus, and train rat through operant conditioning to negotiate obstacle course.

Instructional Methodology

Specify the methods of instruction that may be employed in this course
Audio-visual presentations
Class activities
Laboratory activities
Observation

Describe specific examples of the methods the instructor will use:
Instructor will demonstrate how to do animal observations and then will provide opportunities for students to do the same.
Instructor will discuss and demonstrate how to do training sessions with their own rats in the laboratory.

Representative Course Assignments

Writing Assignments
write a report on the data collected using focal animal sampling.
make predictions of testing hypothesis in terms of changes in behavior.
write a summary of observations utilizing instantaneous scan sampling.

Critical Thinking Assignments
evaluate published research studies for design flaws.
analyze learning curve constructed upon data collected during rat training.
analyze behavioral change following environmental manipulation.

Reading Assignments
read observational study published in a scientific journal.
read information on the care of domestic rats.

Skills Demonstrations
present performance of rat trained to navigate an obstacle course.

demonstrate the ability to positively reinforce a rat during training.

Outside Assignments

Articulation

Equivalent Courses at other CCCs

College	Course ID	Course Title	Units
no comparable courses available			

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:
S2016

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

Area F: Ethnic Studies

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
Textbook

Classic Textbook
Yes

Description
Irwin, Mark, John Stoner, and Aaron Cobaugh, eds. *Zookeeping: An Introduction to the Science and Technology*. University of Chicago, 2013.

Resource Type
Textbook

Classic Textbook
No

Description
Dugatkin, Lee Alan. *Principles of Animal Behavior*. 4th ed., University of Chicago Press, 2019.

Resource Type
Textbook

Classic Textbook
Yes

Description
Pryor, Karen. *Reaching the Animal Mind: Clicker Training and What it Teaches Us About All Animals*. Scribner, 2010.

Library Resources

Assignments requiring library resources
Find articles on species of interest published in scientific journal.

Sufficient Library Resources exist
Yes

Example of Assignments Requiring Library Resources
Find published article on species being observed.

Primary Minimum Qualification
ANIMAL TRAINING & MANAGEMENT

Review and Approval Dates

Department Chair
03/04/2022

Dean
03/04/2022

Technical Review
03/17/2022

Curriculum Committee
04/05/2022

DTRW-I
04/21/2022

Curriculum Committee
MM/DD/YYYY

Board
05/11/2022

CCCCO
MM/DD/YYYY

Control Number
CCC000564444

DOE/accreditation approval date
MM/DD/YYYY