

# ANSC M09: ANIMAL BEHAVIOR

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**Originator**

gwilson

**Co-Contributor(s)**
**Name(s)**

Woodhouse, Brenda (bwoodhouse)

**College**

Moorpark College

**Discipline (CB01A)**

ANSC - Animal Science

**Course Number (CB01B)**

M09

**Course Title (CB02)**

Animal Behavior

**Banner/Short Title**

Animal Behavior

**Credit Type**

Credit

**Start Term**

Fall 2022

**Co-listed (Same-as) Course(s)**

EATM M09

**Taxonomy of Programs (TOP) Code (CB03)**

0102.00 - \*Animal Science

**SAM Priority Code (CB09)**

D - Possibly Occupational

**Control Number**
**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 M04 - Animal Behavior

**Catalog Course Description**

Introduces the study of animal behavior with an emphasis on learning theory, especially classical and operant conditioning. Provides understanding on how to apply the concepts of ethology and behavior modification to the maintenance and training of animals under professional care.

**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)**

D - Possibly 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****Minimum Contact/In-Class Lecture Hours**

52.5

**Maximum Contact/In-Class Lecture Hours**

52.5

**Activity****Laboratory****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****Minimum Outside-of-Class Hours**

105

**Maximum Outside-of-Class Hours**

105

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

157.5

**Total Maximum Student Learning Hours**

157.5

**Minimum Units (CB07)**

3

**Maximum Units (CB06)**

3

**Advisories on Recommended Preparation**

ANSC M17

**Requisite Justification****Requisite Type**

Recommended Preparation

**Requisite**

ANSC M17

**Requisite Description**

Course not in a sequence

**Level of Scrutiny/Justification**

Content review

**Student Learning Outcomes (CSLOs)****Upon satisfactory completion of the course, students will be able to:**

- |   |  |
|---|--|
| 1 | achieve at least 70% performance on written examinations demonstrating their ability to explain the concepts and issues pertaining to the development and control of behavior, evolution of behavior, behavioral ecology, social organization, communication, and animal intelligence. |
| 2 | achieve at least 70% performance on written examinations demonstrating their ability to apply concepts including learning theory, behavioral enrichment, and applied animal behavior to the management of animals under professional care  |

**Course Objectives****Upon satisfactory completion of the course, students will be able to:**

- |   |   |
|---|---|
| 1 | compare the different ways in which behavior can be examined.   |
| 2 | describe the different types of learning which have been observed in animals.   |
| 3 | 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.   |
| 4 | identify the different types of social organization seen in animals, in general, and in primates and cetaceans, in particular.  |
| 5 | 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. |
| 6 | describe how the evolution of behavior is studied and how natural selection operates.   |
| 7 | describe the major issues in examining animal intelligence.   |
| 8 | 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.  |
| 9 | explain the application of various behavior modification techniques to the management of animals under professional care.   |

**Course Content****Lecture/Course Content****1. (24%) Learning**

- a. Habituation
- b. Sensitization
- c. Classical conditioning
- d. Operant conditioning
- e. Constraints on learning
- f. Other kinds of learning

**2. (9%) Evolution of behavior**

- a. Evolution
- b. Behavioral ecology
- c. Optimal foraging theory

**3. (16%) Social organization**

- a. Disadvantages of group living

- b. Advantages of group living
- c. Territory
- d. Dominance hierarchies
- e. Kinship
- f. Primate social behavior
- g. Cetacean social behavior

**4. (5%) Abnormal behavior**

- a. Quantitative abnormalities
- b. Qualitative abnormalities
- c. Stereotypies
- d. Abnormal primate behavior

**5. (6%) Ways in which behavior can be examined**

- a. Anthropomorphism
- b. Experimental psychology
- c. Ethology
- d. Sociobiology
- e. Tinbergen's Four Questions

**6. (6%) Development of behavior**

- a. Genetically-determined behavior
- b. Environmentally-determined behavior
- c. Song development in birds
- d. Other factors in development

**7. (9%) Communication**

- a. Definition
- b. Tactile mode
- c. Olfactory mode
- d. Auditory mode
- e. Visual mode
- f. Example of a species

**8. (9%) Animal intelligence**

- a. Definition
- b. Quantitative approach
- c. Qualitative approach
- d. Primate vocalization study
- e. Non-primate studies
- f. Animal architecture

**9. (9%) Behavioral enrichment**

- a. History
- b. Basic methodology
- c. Examples of enrichment
- d. Latest approaches to enrichment
- e. Five opportunities to thrive

**10. (4%) Applied animal behavior**

- a. Husbandry and medical training
- b. Training for conservation
- d. Protected contact training

**11. (3%) Mechanisms of behavior**

- a. Nervous system
- b. Endocrine system
- c. Spotted hyena case study

**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):

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  
Objective exams  
Reports/papers

## Instructional Methodology

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

Audio-visual presentations  
Case studies  
Demonstrations  
Distance Education  
Lecture

**Describe specific examples of the methods the instructor will use:**

Lecture utilizing photos and videos illustrating concepts and applications.

## Representative Course Assignments

### Writing Assignments

Evaluation of pet using Five Freedoms or Five Opportunities.  
Written summary of behavioral problem in recent news reports.

### Critical Thinking Assignments

Analyze a behavior from the perspectives of function, mechanism, ontogeny, and evolutionary history.  
Identify the reinforcement contingencies present in a training scenario.

### Reading Assignments

Read assigned textbook chapters.  
Read assigned scientific journal articles on the application of various behavior modification techniques to the management of animals under professional care.

## Outside Assignments

### Representative Outside Assignments

Complete study guides of textbook chapters.  
Complete San Diego Wildlife Alliance online course in professional animal welfare.

## Articulation

### Equivalent Courses at 4 year institutions

University	Course ID	Course Title	Units
UC Davis	NE PH B 90C	Current Issues in Animal Behavior	2

### Equivalent Courses at other CCCs

College	Course ID	Course Title	Units
Santa Barbara City College	ZOOL 140	Animal Behavior	3
Feather River College	AGAS/BIOL 164	Animal Behavior	3

## District General Education

### A. Natural Sciences

### B. Social and Behavioral Sciences

#### B2. Social and Behavioral Sciences

Approved

**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**

D Social Sciences

Approved

**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**Price, Edward. *Principles and Applications of Domestic Animal Behavior*. Centre for Agricultural Bioscience International, 2008.

**Resource Type**

Textbook

**Classic Textbook**

No

**Description**

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

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**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.

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**Library Resources**

**Assignments requiring library resources**

Reading of scientific journal articles.

**Sufficient Library Resources exist**

Yes

**Example of Assignments Requiring Library Resources**

Summarize the behavior modification methods utilized to address a behavioral problem in an animal under professional care as described in a scientific journal such as Zoo Biology.

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**Distance Education Addendum**

**Definitions**

**Distance Education Modalities**

Hybrid (1%–50% online)

100% online is a temporary emergency approval ONLY

**Faculty Certifications**

**Faculty assigned to teach Hybrid or Fully Online sections of this course will receive training in how to satisfy the Federal and state regulations governing regular effective/substantive contact for distance education. The training will include common elements in the district-supported learning management system (LMS), online teaching methods, regular effective/substantive contact, and best practices.**

Yes

**Faculty assigned to teach Hybrid or Fully Online sections of this course will meet with the EAC Alternate Media Specialist to ensure that the course content meets the required Federal and state accessibility standards for access by students with disabilities. Common areas for discussion include accessibility of PDF files, images, captioning of videos, Power Point presentations, math and scientific notation, and ensuring the use of style mark-up in Word documents.**

Yes



## Regular Effective/Substantive Contact

### Hybrid (1%–50% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Students may be required to post their ideas or solutions for class-related material on the course discussion boards. Students may also be required to comment on the posts of other students, including constructive criticism.
E-mail	The instructor may email students with announcements about the course or other college events and opportunities and answer student questions. Students may email questions and possibly assignments or projects, depending on the nature of the class, directly to the instructor.
Face to Face (by student request; cannot be required)	Students may have the option to visit the instructor in their office on campus for office hours or to discuss other class-related items.
Other DE (e.g., recorded lectures)	The instructor may use other instruction methods appropriate to the subject matter. For example, pre-recorded lectures may be posted perhaps leading to a class discussion on the discussion boards.
Synchronous Dialog (e.g., online chat)	The instructor may hold class in a regular schedule but in an online format using a program such as ConferZoom. Office hours may also be held in this manner or with an online chat tool.
Telephone	Students may have the option to call the instructor and/or the instructor may call students to facilitate office hours or to discuss other class-related items.
Video Conferencing	Instructor may hold class in a regular schedule but in an online format using a program such as ConferZoom. Office hours may also be held in this manner.

### 100% online Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Students may be required to post their ideas or solutions for class-related material on the course discussion boards. Students may also be required to comment on the posts of other students, including constructive criticism.
E-mail	The instructor may email students with announcements about the course or other college events and opportunities and answer student questions. Students may email questions and possibly assignments or projects, depending on the nature of the class, directly to the instructor.
Face to Face (by student request; cannot be required)	Students may have the option to visit the instructor in their office on campus for office hours or to discuss other class-related items.
Other DE (e.g., recorded lectures)	The instructor may use other instruction methods appropriate to the subject matter. For example, pre-recorded lectures may be posted perhaps leading to a class discussion on the discussion boards.
Synchronous Dialog (e.g., online chat)	The instructor may hold class in a regular schedule but in an online format using a program such as ConferZoom. Office hours may also be held in this manner or with an online chat tool.
Telephone	Students may have the option to call the instructor and/or the instructor may call students to facilitate office hours or to discuss other class-related items.
Video Conferencing	Instructor may hold class in a regular schedule but in an online format using a program such as ConferZoom. Office hours may also be held in this manner.

## Examinations

### Hybrid (1%–50% online) Modality

On campus

**Primary Minimum Qualification**

ANIMAL TRAINING & MANAGEMENT

**Review and Approval Dates**

**Department Chair**

02/27/2022

**Dean**

03/03/2022

**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**

CCC000564724

**DOE/accreditation approval date**

MM/DD/YYYY