

EATM M17: ANIMAL DIVERSITY

Originator

gwilson

Co-Contributor(s)
Name(s)

Woodhouse, Brenda (bwoodhouse)

College

Moorpark College

Discipline (CB01A)

EATM - Exotic Animal Training Mgmt

Course Number (CB01B)

M17

Course Title (CB02)

Animal Diversity

Banner/Short Title

Animal Diversity

Credit Type

Credit

Start Term

Fall 2022

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

ANSC M17

Taxonomy of Programs (TOP) Code (CB03)

0102.00 - *Animal Science

SAM Priority Code (CB09)

D - Possibly Occupational

Control Number

CCC000428509

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 M07 - Animal Diversity
ANSC M07L - Animal Diversity Lab

Catalog Course Description

Surveys invertebrate and vertebrate animals, both terrestrial and marine. Focuses on classification, general characteristics, adaptations, animal recognition, evolutionary history, and basic concepts of ecology.

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****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**

78.75

Total Maximum Contact/In-Class Hours

78.75

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**

183.75

Total Maximum Student Learning Hours

183.75

Minimum Units (CB07)

3.5

Maximum Units (CB06)

3.5

Student Learning Outcomes (CSLOs)

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

- | | |
|---|---|
| 1 | demonstrate ability to describe the characteristics of the major phyla of invertebrates and the classes of vertebrates as well as the major orders and families of the tetrapods. |
| 2 | demonstrate ability to recognize and identify by common name, scientific name, phylum, class, order, and family a wide variety of animal species including invertebrates, fish, amphibians, reptiles, birds, and mammals. |

Course Objectives

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

- | | |
|---|---|
| 1 | explain the classification and evolutionary relationships of the different animal groups. |
| 2 | identify the characteristics of major phyla of invertebrates and the classes of vertebrates. |
| 3 | describe the characteristics of the major orders and families of amphibians, reptiles, birds, and mammals including characteristics of morphology and behavior of various representative species. |
| 4 | explain major concepts of taxonomy, evolution, physiology, genetics, ecology. |
| 5 | recognize and be able to identify animal species commonly exhibited in zoos and oceanariums and important domestic and non-domestic species. |

Course Content**Lecture/Course Content**

6% Introduction to course

- Taxonomy
- Evolution
- Genetics

4% Ecology

12% Perissodactyla Artiodactyla Cetacea

9% Subungulates:

- Proboscidea
- Hyrocoidea
- Sirenia

12% Carnivores

9% Xenartha, Lagomorpha, Rodentia

9% Primates

9% Monotremes, Marsupials, Insectivora, Scandentia, Dermoptera, Chiroptera

3% Mammals in general

6% Birds

6% Reptiles

3% Amphibians

6% Fish

6% Invertebrates

Laboratory or Activity Content

5% Invertebrates

6% Cetaceans

16% Ungulates

16% Carnivores

8% Primates

8% Monotremes, Marsupials, Xenartha, Chiroptera, Rodentia, Lagomorpha, Tubulidentata, subungulates

21% Birds

12% Reptiles

3% Amphibians

5% Fish

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

Quizzes

Reports/papers

Skills tests or practical examinations

Instructional Methodology

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

Audio-visual presentations

Demonstrations

Distance Education

Guest speakers

Lecture

Readings

Describe specific examples of the methods the instructor will use:

Presentation of photos and videos of animals illustrating distinguishing characteristics.

Presentation of live animals to provide opportunities to observe species and family characteristics.

Representative Course Assignments

Writing Assignments

write a paper on the life history of a species.

write a paper dealing with a concept such as adaptive radiation with an example of a group which illustrates the concept.

write a paper describing range of adaptations of a family.

Critical Thinking Assignments

analyze evolutionary trends within families.

debate problems with various species concepts in classroom.

compare and contrast research projects described in scientific journal articles.

Reading Assignments

read assigned chapters in textbook.

read published articles in scientific journals that relate to student research projects in the Zoo focusing on animal behavior.

Skills Demonstrations

recognize assigned species.

describe the distinguishing characteristics of assigned families.

Outside Assignments

Representative Outside Assignments

participate in group projects illustrating evolutionary relationships of families.

observe animals in the teaching zoo to identify family characteristics.

read scientific journal articles on concepts of taxonomy, evolution, physiology, genetics, ecology.

Articulation

Equivalent Courses at 4 year institutions

University	Course ID	Course Title	Units
San Diego State University	BIOL 101	World of Animals	3
San Diego State University	BIOL 101L	World of Animals Laboratory	1

Equivalent Courses at other CCCs

College	Course ID	Course Title	Units
MiraCosta College	BIO 103	Animal Diversity	3
Santa Barbara City College	ZOOL 123	Animal Diversity Laboratory	1
Santa Barbara City College	ZOO 122	Animal Diversity	3

District General Education

A. Natural Sciences

A1. Biological Science

Approved

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:

F2015

CSU GE-Breadth

Area A: English Language Communication and Critical Thinking

Area B: Scientific Inquiry and Quantitative Reasoning

B2 Life Science

Approved

B3 Laboratory Activity

Approved

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

DescriptionHickman, Cleveland P., et al. *Animal Diversity*. 9th ed., McGraw-Hill, 2020.**Resource Type**

Textbook

Classic Textbook

Yes

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

Other Resource Type

Description

Identification slides of animals.

Library Resources**Assignments requiring library resources**

Research a paper, using the Library's print and online resources, on a concept such as adaptive radiation with an example of a group which illustrates the concept.

Compare different research articles published in scientific journals.

Sufficient Library Resources exist

Yes

Example of Assignments Requiring Library Resources

Write a term paper must be based on two journal articles, i.e., articles from peer-reviewed journals such as Ecology, Journal of Mammalogy, Zoo Biology, etc. The articles must be related to each other in some way and deal with something related to what we cover in class, e.g., anything about a particular species, family, order, or class of animals; anything on ecology; anything on conservation; anything on animals in captivity. The articles should present original data from the research done by the author(s). Articles which are discussions of other peoples' work or summaries of previous studies are not appropriate

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.
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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**

03/06/2022

Dean

03/07/2022

Technical Review

04/21/2022

Curriculum Committee

5/3/2022

DTRW-I

05/12/2022

Curriculum Committee

MM/DD/YYYY

Board

06/14/2022

CCCCO

MM/DD/YYYY

Control Number

CCC000429867

DOE/accreditation approval date

MM/DD/YYYY