

EATM M19: ANIMAL NUTRITION

Originator

bwoodhouse

Co-Contributor(s)
Name(s)

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College

Moorpark College

Discipline (CB01A)

EATM - Exotic Animal Training Mgmt

Course Number (CB01B)

M19

Course Title (CB02)

Animal Nutrition

Banner/Short Title

Animal Nutrition

Credit Type

Credit

Start Term

Spring 2023

Formerly

ANSC M03 - Animal Nutrition

Catalog Course Description

Provides the student with a basic understanding of factors relating to the feeding of domestic and non-domestic animals under human care. Provides the student with a basic understanding of the nutritional needs of animals under human care and in the wild.

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

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 M18

Entrance Skills

Entrance Skills

EATM M18

Prerequisite Course Objectives

EATM M18-identify and explain the concepts, components and implementation of an effective preventive medicine program.
EATM M18-describe safe sanitation methods, protocols, and products common to animal care facilities.

Requisite Justification

Requisite Type

Prerequisite

Requisite

EATM M18

Requisite Description

Credit program requisite (credit only)

Level of Scrutiny/Justification

Content review

Student Learning Outcomes (CSLOs)

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

- | | |
|---|--|
| 1 | identify proper sanitation and food preparation that meet regulatory standards. |
| 2 | identify and explain the principles of an effective nourishment program, including record keeping. |

Course Objectives

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

- | | |
|---|--|
| 1 | assess and calculate a balanced diet that meets the nutritional and psychological needs of mammals, birds and herptiles. |
| 2 | explain the proper steps in food sanitation and handling. |
| 3 | describe and identify the properties and importance of each nutrient: carbohydrates, fats, proteins, vitamins, minerals and water. |
| 4 | explain the relationship of digestive tract structure to the nutritional needs of animals. |
| 5 | identify toxic types of foods for a variety of mammals, birds and herptiles. |
| 6 | describe how to prevent nutritional-based diseases such as metabolic bone disease and iron storage disease. |
| 7 | discuss nutritional product labels and information and assess nutritional information in a scientific way. |

Course Content**Lecture/Course Content**

1. (10%) Zoo nutritional program, the art and science of feeding: Includes diet presentation and record keeping
2. (30%) Nutrients: Carbohydrates, Fats, Proteins, Minerals, Vitamins and Water
3. (10%) Nutritional significance of digestive tract structure
4. (10%) Nutritionally-induced medical problems
5. (10%) USDA commissary sanitation regulations, handling of meat and fish
6. (30%) Feeding of various species: carnivores, herbivores and omnivores, including evaluating commercial diets and hay

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):

Computational homework
 Essay exams
 Individual projects
 Objective exams
 Problem-solving exams
 Problem-solving homework
 Quizzes
 Reports/papers
 Research papers
 Written analyses
 Written homework

Instructional Methodology

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

Case studies
 Class discussions
 Dialog

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

lecture with PowerPoint.
 discuss and calculate balance diet needs with whole class

Representative Course Assignments**Writing Assignments**

research and write a paper on specific species dietary requirements.
 write evaluations of information provided on the Internet.

Critical Thinking Assignments

diet evaluations.
 class discussion regarding advertisements for nutritional products.
 critiques of scientific articles.

Reading Assignments

read scientific articles regarding wild animal nutrition.
 read assigned chapters.

Outside Assignments**Representative Outside Assignments**

recommended reading from text and instructor notes.
 readings from selected books on wild and domestic animal nutrition and care.
 Internet research.

Articulation**Equivalent Courses at 4 year institutions**

University	Course ID	Course Title	Units
Cal Poly Pomona	AVS 2101	Fundamentals of Animal Nutrition	3
CSU Chico	ANSC 230	Animal Feeds and Nutrition	3
Cal Poly San Luis Obispo	ASCI 220	Introductory Animal Nutrition and Feeding	4

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:

SS2001

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

Description

Kleiman, Devra, Katerina Thompson, and Charlotte Baer, eds. *Wild Mammals in Captivity: Principles and Techniques for Zoo Management*. 2nd ed., University of Chicago, 2012.

Resource Type

Textbook

Description

Pond, Wilson, et al. *Basic Animal Nutrition and Feeding*. 5th ed., Wiley, 2004.

Resource Type

Other Resource Type

Description

Brady, Conor. *Feeding Dogs: The Science Behind the Dry Versus Raw Debate*. Farrow Road Publishing, 2020.

Library Resources

Assignments requiring library resources

Research, using the Library's print and online resources, particularly scholarly journals, on subjects appropriate to the course. Texts for this course are on reserve in the Library for students who wish to seek further information on the topics being discussed.

Sufficient Library Resources exist

Yes

Example of Assignments Requiring Library Resources

Research and write a paper on specific species dietary requirements.

Distance Education Addendum**Definitions****Distance Education Modalities**

100% online

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**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.

Primary Minimum Qualification

ANIMAL TRAINING & MANAGEMENT

Review and Approval Dates**Department Chair**

03/14/2022

Dean

03/14/2022

Technical Review

04/21/2022

Curriculum Committee

5/3/2022

DTRW-I

MM/DD/YYYY

Curriculum Committee

MM/DD/YYYY

Board

MM/DD/YYYY

CCCCO

MM/DD/YYYY

Control Number

CCC000434336

DOE/accreditation approval date

MM/DD/YYYY