EATM M12: ANATOMY AND PHYSIOLOGY OF MAMMALS

Originator
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Co-Contributor(s)

Name(s)
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College
Moorpark College

Discipline (CB01A)
EATM - Exotic Animal Training Mgmt

Course Number (CB01B)
M12

Course Title (CB02)
Anatomy and Physiology of Mammals

Banner/Short Title
Anatomy & Physiology Mammals

Credit Type
Credit

Start Term
Fall 2022

Formerly
ANSC M06 - Animal Anatomy/Physiology

Catalog Course Description
Introduces a practical system-by-system approach to the basic anatomical structure of domestic and non-domestic mammals. Discusses the physiological function of domestic and non-domestic mammals.

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

Limitations on Enrollment
Others (specify)

Other Limitations on Enrollment
Admission to the EATM Program

Student Learning Outcomes (CSLOs)

	Upon satisfactory completion of the course, students will be able to:
1	identify, describe (with proper nomenclature) the function and relationships of the basic anatomy and physiology of normal mammals.
2	utlize appropriate anatomical terminology to describe systems, parts, and positions

Course Objectives

	Upon satisfactory completion of the course, students will be able to:
1	identify and describe the basic anatomical structures of mammals.
2	identify and utilize basic nomenclature related to anatomy and physiology.
3	explain the relationship between the various anatomical and physiological systems found in the normal mammal.
4	demonstrate, in terms of structure and function, the unique anatomical and physiological adaptations of certain groups of mammals.

Course Content

Lecture/Course Content

1. (10%) Integumentary system (skin)
2. (10%) Musculo-skeletal system
3. (15%) Nervous system (including special senses) and Endocrine system
4. (10%) Blood
5. (15%) Heart and Circulatory systems

a. vascular systems
b. lymphatic systems

6. (10%) Respiratory system and thoracic cavity
7. (10%) Digestive system
8. (10%) Urinary system and reproductive system Abdomen
9. (5%) Types of anatomy
    a. gross
    b. histological
    c. developmental

    Types of physiology
    a. organ
    b. cellular

    Types study: systems vs. locations
10. (5%) Topographical anatomy

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
Problem solving exercises

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
Group projects
Individual projects
Objective exams
Problem-solving exams
Problem-solving homework
Quizzes
Reports/papers
Research papers
Classroom Discussion
Projects
Reports/Papers/Journals

Instructional Methodology

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

Audio-visual presentations
Case studies
Class activities
Class discussions
Collaborative group work
Computer-aided presentations
Distance Education
Group discussions
Guest speakers
Lecture
One-on-one conference

Describe specific examples of the methods the instructor will use:

lecture with PowerPoint.

bring in live animal as a visual reference.

video presentations and discussions.

Representative Course Assignments

Writing Assignments
evaluation and reaction to a museum visit.
paper on a specific mammal species describing the anatomical and physiological adaptations for that species.
written analyses of case studies.

Critical Thinking Assignments
compare and contrast the digestive system across several species.
discuss anatomical and physiological adaptations for specific mammalian species.

Reading Assignments
read assigned chapters in text book.
read assigned articles related to basic anatomical structures of mammals.

Outside Assignments

Representative Outside Assignments
complete library assignments researching and comparing various body systems between various species.
build plastic model of anatomical structures or create poster illustrating anatomical adaptations for a specific species.
observe, and palpate, when appropriate, anatomical structures and landmarks on the living animal.

Articulation

Equivalent Courses at 4 year institutions

University	Course ID	Course Title	Units
Cal Poly SLO	ASCI 229	Anatomy and Physiology of Farm Animals	4

Comparable Courses within the VCCCD
ANSC M06 - Animal Anatomy/Physiology

Equivalent Courses at other CCCs

College	Course ID	Course Title	Units
Los Angles Pierce College	ANML SC 511	Anatomy and Physiology of Animals	3
San Diego Mesa College	ANHL 145	Anatomy and Physiology of Animals	3
Mount San Antonio College	AGHE 86	Anatomy and Physiology of Domestic Animals	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
Colville, Thomas, and Joanna Bassert. *Clinical Anatomy and Physiology for Veterinary Technicians.* 3rd ed., Mosby, 2015.

Resource Type
Textbook

Description
Singh, Baljit. *Veterinary Anatomy Coloring Book.* 2nd ed., Saunders, 2015.

Resource Type
Textbook

Classic Textbook
No

Description
Aspinall, Victoria, and Melanie Cappello. *Introduction To Animal And Veterinary Anatomy And Physiology.* 4th ed., CABI, 2019.

Library Resources

Assignments requiring library resources
Research, using the Library's print and online resources, on topics related to anatomical structures in mammals.

Sufficient Library Resources exist
Yes

Example of Assignments Requiring Library Resources
Researching and comparing various body systems between various species.

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
04/07/2022

Curriculum Committee
4/19/2022

DTRW-I
MM/DD/YYYY

Curriculum Committee
MM/DD/YYYY

Board
MM/DD/YYYY

CCCCO
MM/DD/YYYY

Control Number
CCC000588702

DOE/accreditation approval date
MM/DD/YYYY