EATM M101: INTRODUCTION TO ANIMAL SCIENCE

Originator
Ishapiro

College
Moorpark College

Attach Support Documentation (as needed)
RVTProgramJustification.pdf
RVTProgramCourseRequirements.docx

Discipline (CB01A)
EATM - Exotic Animal Training Mgmt

Course Number (CB01B)
M101

Course Title (CB02)
Introduction to Animal Science

Banner/Short Title
Introduction to Animal Science

Credit Type
Credit

Start Term
Fall 2021

Catalog Course Description
Surveys the principles of animal science and the interrelationships of animals and mankind. Introduces basic principles of animal biology, including genetics, anatomy, reproduction, nutrition, animal health and disease, veterinary care, animal rights, animal welfare, animal behavior, breeds, feeding, and management strategies. Discusses broad perspective of livestock management and develops the critical thinking skills required to make humane, fact-based decisions in livestock production. Compares and contrasts various species of livestock, including beef cattle, dairy cattle, sheep, goats, swine, horses, poultry, llamas, rabbits and ostriches.

Taxonomy of Programs (TOP) Code (CB03)
0102.10 - *Veterinary Technician (Licensed)

Course Credit Status (CB04)
D (Credit - Degree Applicable)

Course Transfer Status (CB05) (select one only)
A (Transferable to both UC and CSU)

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)
B - Partially Developed Using Economic Development Funds

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
May be required

Faculty notes on field trips; include possible destinations or other pertinent information
local universities/colleges and/or ranches supporting livestock.

Grading method
Letter Graded

Alternate grading methods
Credit by exam, license, etc.

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

Prerequisites
Admission to either the Moorpark College Registered Veterinary Technology (RVT) program or the EATM program

Advisories on Recommended Preparation
EATM M100

Limitations on Enrollment
Criminal background clearance
Drug and alcohol clearance
Fingerprint clearance
Current negative TB test or chest x-ray
Others (specify)
No visible tattoos or visible body piercings except single studs in earlobes

Other Limitations on Enrollment
1. Admission to either the Moorpark College Registered Veterinary Technology (RVT) program or the EATM program
2. Current tetanus vaccination

Requisite Justification

Requisite Type
Enrollment Limitation

Requisite
Admission to either the Moorpark College RVT or the EATM program

Requisite Description
Credit program requisite (credit only)

Level of Scrutiny/Justification
Other (specify)

Specify Other Level of Scrutiny/Justification

Students must be admitted into the Moorpark College RVT program or the EATM program first in order to progress through the program as a cohort

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Requisite Type

Enrollment Limitation

Requisite

Criminal background clearance
Drug and alcohol clearance
Fingerprint clearance
Current negative TB test or chest x-ray
No visible tattoos or visible body piercings except single studs in earlobes
Current tetanus vaccination

Requisite Description

Credit program requisite (credit only)

Level of Scrutiny/Justification

Required by statute or regulation

Student Learning Outcomes (CSLOs)

	Upon satisfactory completion of the course, students will be able to:
1	compare and contract animal-related industries on a regional, national and global level and analyze them in a legal and political context.
2	compare and contrast specie and breed differences in such critical areas as nutritional requirements, genetics, health, reproduction, animal welfare and general management.
3	evaluate and recommend animal enrichment and behavioral management techniques for each of the major livestock species, including poultry.

Course Objectives

	Upon satisfactory completion of the course, students will be able to:
1	identify key behavioral traits of livestock.
2	outline the various livestock industries, locally, within the state, nation, and world.
3	describe the modern animal welfare and husbandry methods of raising livestock for food and fiber.
4	describe the economic considerations made by livestock leaders in producing food and fiber in the United States.
5	identify best practices for feeding and management strategies for livestock and poultry.
6	identify and discuss current issues affecting animal care, welfare, and agriculture.
7	explain basic strategies for disease control and prevention.
8	describe the function of major body systems in animals.

Course Content

Lecture/Course Content

- (2%) California agriculture
- (4%) Introduction to government agencies - The politics of agriculture
- (4%) Taxonomy
- (8%) Genetics and animal breeding
- (8%) Reproduction
- (11.5%) Nutrition
- (12%) Elements of dairying, dairy and meat goat production
- (11.5%) Beef production
- (8%) Sheep production
- (8%) Swine production
- (8%) Poultry production

- (8%) Equine industry
- (2%) Rabbit production
- (1%) Llama and alpaca industry
- (1%) Ostriches
- (1%) Scientific method and research in animal agriculture; developing a research mode
- (1%) Humane treatment of research animals
- (1%) Data collection calculation of production parameters scientifically-based decision-making veterinary medical approaches

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):

Problem solving exercises
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
Group projects
Individual projects
Journals
Oral analysis/critiques
Objective exams
Oral presentations
Quizzes
Reports/papers
Research papers

Instructional Methodology

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

Audio-visual presentations
Computer-aided presentations
Collaborative group work
Clinical demonstrations
Class activities
Class discussions
Case studies
Demonstrations
Field trips
Group discussions
Guest speakers
Instructor-guided interpretation and analysis
Instructor-guided use of technology
Internet research
Lecture
Small group activities

Describe specific examples of the methods the instructor will use:

PowerPoint slide illustrations; and clinical and/or field lab demonstrations (may be by video).

Representative Course Assignments

Writing Assignments

Write essays on assigned topics concerning modern animal welfare husbandry, behavioral and nutritional enrichment of livestock.

Compare and contrast "factory" farming in modern day agriculture with small backyard animal food production techniques, husbandry and safety.

Critical Thinking Assignments

Evaluate Internet research on "factory" farming and the cost of production in the United States vs. traditional "non-factory" farming.

Evaluate and recommend animal enrichment and behavioral management techniques for each of the major livestock species.

Reading Assignments

Assigned reading from assigned textbook relative to course lecture and discussions.

Reading additional articles posted on the learning management system from current animal science periodicals and other publications concerning animal welfare issues in factory farming.

Skills Demonstrations

n/a

Outside Assignments

Representative Outside Assignments

Visit neighboring farms such as Underwood Farms in Moorpark California and Pierce College farm in Woodland Hills California

Interview a commercial livestock producer regarding new modern husbandry techniques that maximize animal welfare and improve productivity and profit

Articulation

Equivalent Courses at 4 year institutions

University	Course ID	Course Title	Units
Cal Poly Pomona	AVS 1112	Food Animal Production	2
Cal Poly SLO	ASCI 112	Principles of Animal Science	4
CSU Bakersfield	AGBS 1020	Introduction to Animal Science	3
CSU Chico	ANSC 101	Introduction to Animal Science	3
CSU Fresno	ASCI 1	Introduction to Animal Science	3

Equivalent Courses at other CCCs

College	Course ID	Course Title	Units
LA Pierce College	ANML SC 501	Principles of Animal Science	3
Allan Hancock College	AG 152	Introduction to Animal Science	3
Bakersfield College	ANSC B1	Introduction to Animal Science	3

Attach Syllabus

AS501SyllabusSpring2015.pdf

District General Education

A. Natural Sciences

A1. Biological Science

Proposed

Date Proposed:

1/16/2020

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:

Fall 2021

CSU GE-Breadth

Area A: English Language Communication and Critical Thinking

Area B: Scientific Inquiry and Quantitative Reasoning

B2 Life Science
Proposed

Date Proposed:
12/11/2020

Area C: Arts and Humanities

Area D: Social Sciences

Area E: Lifelong Learning and Self-Development

CSU Graduation Requirement in U.S. History, Constitution and American Ideals:

UC TCA

UC TCA
Proposed

Date Proposed:
6/19/2020

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 5B: Biological Science
Proposed

Date Proposed:
12/11/2020

Area 6: Languages Other than English (LOTE)

Textbooks and Lab Manuals

Description
Aiello, Susan E., and Michael A. Moses. *The Merck Veterinary Manual*. 11th ed., Merck, 2016.

Description
Damron, W. Stephen. *Introduction to Animal Science: Global, Biological, Social and Industry Perspectives*. 6th ed., Pearson, 2017.

Library Resources

Assignments requiring library resources

Internet research from approved animal science, veterinary and livestock journals relating to class discussions on raising animals for food and fiber.

Sufficient Library Resources exist

Yes

Example of Assignments Requiring Library Resources

Internet research from approved animal science, veterinary and livestock journals relating to class discussions on raising animals for food and fiber. Moorpark College's journals include: Animal Behaviour
Animal Welfare
Journal of Applied Animal Welfare Science
Journal of Mammalogy
Journal of Wildlife Management (issues available online through Wiley Online Library)
Wildlife Monographs (issues available online through Wiley Online Library)
Zoo Biology (issues available online through Wiley Online Library)

In addition, the college library takes the Database Elsevier Science Direct that is often used by the Animal Science Program.

Primary Minimum Qualification

ANIMAL TRAINING & MANAGEMENT

Additional Minimum Qualifications

Minimum Qualifications
Biological Sciences

Review and Approval Dates

Department Chair

12/07/2019

Dean

12/09/2019

Technical Review

01/16/2020

Curriculum Committee

01/21/2020

DTRW-I

02/13/2020

Curriculum Committee

MM/DD/YYYY

Board

03/10/2020

CCCCO

MM/DD/YYYY

Control Number

CCC000459505

DOE/accreditation approval date

MM/DD/YYYY