SECTION A - Course Information

1. Course ID: AGHE 86
2. Course Title: Anatomy and Physiology of Domestic Animals
3. Division: Natural Sciences Division
4. Department: Agricultural Sciences Department
5. Subject: Agriculture: Animal Health Technology
6. Short Course Title: Anat/Phys Dom Animals
7. Effective Term: Summer 2014

SECTION B - Official Course Information

1. Recommended Class Size:
   a. Maximum Class Size: 24
   b. Class Size Approval Date:
2. Method of Instruction:
   - Lecture
   - Laboratory
   - Lecture and Laboratory
   - Independent Studies
   - Distance Learning (Distance Education Delayed) for online courses.

3. Contact Hours for a Term:
   Note: If not a variable unit/hour course, enter the hours in the "Low" column only. Leave the hours in the "High" column blank.
   - Lecture: 54.00 To
   - Lab: 54.00 To
   - Activity: To
   - Clinical: To
   - Total Hours: 108 To

4. Credit Units: 4.00 To
   1 Unit of credit per eighteen (18) hours of lecture contact hours for a term
   1 Unit of credit per fifty-four (54) hours of lab, activity or clinical contact hours for a term

5. Taxonomy of Programs (TOPS) Information:
   a. TOPS Code and Course Program Title:
010210 - *Veterinary Technician (Licensed)

b. Course Control Number: CCC000502786

(To be entered by the Instruction Office Only.)

6. SAM Priority Code:(Select One)

☐ Apprenticeship
  Courses offered to apprentices only.

☐ Advanced Occupational
  Courses taken in the advanced stages of an occupational program. Each “B” level course must have a “C” level prerequisite in the same program area.

☐ Clearly Occupational
  Courses taken in the middle stages of an occupational program. Should provide the student with entry-level job skills.

☐ Possibly Occupational
  Courses taken in the beginning stages of an occupational program.

☐ Non-Occupational

7. Please place this course into the appropriate discipline by selecting from the drop down list. The discipline placement indicates what preparation is needed to teach the course. Discipline faculty may place their courses into more than one discipline as appropriate:

Registered Veterinary Technology

8. General Course Information

  a. Course Credit Status: D Credit – Degree Applicable
  b. State Transfer Code: B Transferable, CSU/Private
  c. State Classification Code: I Career-Technical Education
  d. Basic Skills Status/Level: N Not a Basic Skills Course
  e. Sports/Physical Education Course: ☐ Yes

    (Only check here if the course is a physical education course.)
  f. Grading Method: Letter Grade Only
  g. Number of repeats allowed: Non-repeatable Credit (equates to 0 repeats)
  h. Overlap/Duplicate Course: 

9. Course Preparation:

Note: If this course has a new requisite, a content review supplemental form must be completed.

☐ Prerequisite
Corequisite

☒ Advisory
∙ BIOL 1
☐ None

10. Course Special Designators

11. Course Program Status

☒ Program Applicable
☐ Stand-alone

12. Funding Agency Category:

☒ Not Applicable
☐ Primarily developed using economic development funds
☐ Partially developed using economic development funds

SECTION C - Transfer Status

_Baccalaureate Status is granted by the Educational Design General Education and Baccalaureate Level Subcommittee._

☒ CSU Transferable
☐ UC Transferable

Approval Date:

SECTION D - General Education Request

Mt. San Antonio College and CSU General Education course approval are submitted to the Educational Design GE and BL Subcommittee for approval.

1. The Articulation Officer submits the course directly to the CSU Chancellor for approval.

2. Upon receiving approval, the course is approved for the Mt. SAC Associate Degree GE and placed in the area(s) CSU approval indicate(s).

☐ Yes
☒ No

Approved for inclusion on Mt. SAC and CSU General Education List?

1. Mt SAC General Education Applicability:

2. CSU General Education Applicability (Requires CSU approval):

3. IGETC Applicability (Requires CSU/UC approval):
SECTION E - Course Content

1. Course Descriptions

   a. Catalog Description

   Analyzes the body structures and systems, comparing domestic animals commonly found in veterinary medicine. The physiology section will emphasize functions of internal organs and body systems.

   b. Class Schedule Description:

   □ Yes  ☑ No  Is a course description to be printed in the Class Schedule?

2. Course Outline Information

   a. Lecture Topical Outline:

   - Basic cell and tissue function
   - Skeletal system
   - Physiology of bones and joints
   - Muscular system
   - Microanatomy of muscles
   - Blood and its function
   - Circulatory system
   - Respiratory system
   - Digestive system
   - Urinary system
   - Endocrine system
   - Sense organs
   - Nervous system
   - Reproductive system (Male)
   - Reproductive system (Female)
   - Final exam

   b. Lab Topical Outline:

   - Introducing cell anatomy and types
   - Examining skeletal system
   - Exploring physiology of bones and joints
   - Examining muscular system
   - Identifying blood cell type
   - Dissecting a heart and circulatory system
   - Examining digestive system of monogastric animals
   - Comparing digestive system of ruminant animals
   - Examining urinary system
   - Examining endocrine system
   - Examining nervous system (nerves & brain)
   - Examining reproductive system (Male)
   - Examining reproductive system (Female)
   - Lab Practicum

3. Course Measurable Objectives:
1. Identify cellular structure and differentiate between cellular tissues; describe their functions.
2. Distinguish between classes of joints.
3. Identify the bones in the skeletal system.
4. Differentiate between muscle types, and identify their functions and locations.
5. Compare structure and functions of red and white blood cells.
6. Explain the flow of blood as it relates to arterial and venous blood system.
7. Describe how kidneys function in filtration.
8. Differentiate between the endocrine glands; describe their functions.
9. Classify parts of the nervous system and describe their functions.
10. Identify the anatomical structures of the male and female reproductive systems.

4. Course Methods of Evaluation:

Category 1. Substantial written assignments for this course include:

If the course is degree applicable, substantial written assignments in this course are inappropriate because:

This class evaluates students on problem solving and skills based exercises related to body structures and systems of domestic animals.

Category 2. Computational or non-computational problem solving demonstrations:

Identification of bones, muscles, and organs
Functions of the different body systems
Assemble and label pictures of organs

Identification of blood flow through the system including a diagram of arteries, capillaries, and veins
Presentations on anatomical systems or organs of domestic animals

Category 3. Skills Demonstrations:

Identification of cellular structures and tissues
Identification of muscles, bones, and joints
Description of organs, their functions and location in the body
Demonstrate the flow of blood through the body

Category 4. Objective Examinations:

Multiple choice questions using technical vocabulary
Multiple choice questions on function and structure of different organs systems within the body
Matching questions that label parts of different organ systems

5. Sample Assignments:

1. One page paper on the flow of blood through the system including a diagram of arteries, capillaries, and veins.
2. Term project where students develop a project (including a demonstration board, model or other visual aide) on any anatomical system or organ of a domestic animal, and give a short class presentation.
3. Identify and label bones on a canine and equine skeleton.
6. Representative Text:

<table>
<thead>
<tr>
<th>Book 1:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Author:</strong> Thomas Colville/ Joanna Bassert</td>
</tr>
<tr>
<td><strong>Title:</strong> Clinical Anatomy &amp; Physiology for Veterinary Technicians</td>
</tr>
<tr>
<td><strong>Publisher:</strong> Mosby</td>
</tr>
<tr>
<td><strong>Date of Publication:</strong> 2008</td>
</tr>
<tr>
<td><strong>Edition:</strong> Second</td>
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