Proposal to Initiate, Modify or Delete a Course

1. Type of Action
   - A. Addition
   - B. Deletion
   - C. Modification:
     - in credits
     - in title
     - in prerequisites or co-requisites
     - in number or alpha
     - Other

2. New Alpha, Number and Title
   ANSC 142 Anatomy and Physiology of Domestic Animals

3. Credits
   3 credits

4. Old Alpha, Number and Title
   ANSC 142 Anatomy and Physiology of Domestic Animals

5. New Catalog Description
   Introduction to the anatomy and physiology of domestic animals. Compares the anatomy and function of major body systems for the cat, dog and horse, with lesser emphasis on birds, reptiles and amphibians. This course is intended for students entering veterinary technology, veterinary assisting or other animal-related fields (3 hrs. lect).

6. New Catalog Description
   8. Student Contact Hours Per Week
      Lecture 3.00
      Lecture/Lab
      Lab
      Other
   9. Proposed Date of First Offering
      Semester Fall
      Year 2009

10. This course is proposed for the * Program.
    * can fulfill Nat Sci: Biological

11. This course Makes No Difference in the number of credits required for the program/core.

12. Equivalent or similar courses offered in the UH System:

<table>
<thead>
<tr>
<th>Campus</th>
<th>Alpha, Number, Title</th>
<th>Campus</th>
<th>Alpha, Number, Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>UH Manoa</td>
<td>ANSC 301 Anatomy of Agricultural Animals</td>
<td>*</td>
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</tr>
<tr>
<td>UH Hilo</td>
<td>ANSC 350 Anatomy and Physiology of Farm Animals</td>
<td>*</td>
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<tr>
<td>UH Hilo</td>
<td>ANSC 185 Introduction to Companion Animals</td>
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</tbody>
</table>

13. This course is (check one and click in appropriate textbox and provide details):
   - Already articulated with
     Provide details of existing or desired articulation (date, college(s), purposes, pre-major, etc.) in this space:
   - Appropriate for Articulation with Manoa
     Provide details of existing or desired articulation (date, colleges(s), purposes, pre-major or major, etc.) in this space:
   - Not yet appropriate for Articulation.

14. Reason for Initiating, Modifying or Deleting Courses or Other Pertinent Comment:
   Although the topics discussed are similar to ANSC 301 and 350, this course focuses on the anatomy and physiology of companion animals (cats and dogs) rather than livestock. In addition, the course is targeted to vet assistants and vet technicians (traditionally a 2-year degree) rather than students pursuing a BS in Animal Science.

Requested by: [Signature]
Department Chairperson
Date 9/25/08

Approved by: [Signature]
Curriculum Committee Chairperson
Date 10/28/08

[Signature]
Faculty Senate Chairperson
Date 11/18/08

[Signature]
Dean of Instruction
Date 11/19/08

CCC 6100 (Amended for WCC use October 2002)
University of Hawaii Community Colleges  
Proposal to Initiate, Modify or Delete a Course  

Levels of Review of Course Proposal at Windward Community College  
Course Alpha, Number, and Title: ANSC 142 Anatomy and Physiology of Domestic Animals  

<table>
<thead>
<tr>
<th>Signatures</th>
<th>Dates</th>
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</thead>
<tbody>
<tr>
<td>1. Department Area (more than one departmental instructor's signature required)</td>
<td>9/25/08</td>
</tr>
<tr>
<td>[Signature]</td>
<td>9/25/08</td>
</tr>
<tr>
<td>[Signature]</td>
<td>9/25/08</td>
</tr>
<tr>
<td>[Signature]</td>
<td>9/25/08</td>
</tr>
</tbody>
</table>

2. Department  
[Signature]  
Department Chairperson  
Was this course discussed in a department meeting?  
☐ Yes  ☐ No  
9/25/08

3. Division  
[Signature]  
9/03/08

4. Curriculum Committee Review  
Approved ☒  
Disapproved ☐  
Reason:  
[Signature]  
Curriculum Committee Chairperson  
10/28/08  

CCCM #6100 (Amended for WCC use October 2002)
University of Hawaii Community Colleges
Proposal to Initiate, Modify or Delete a Course
New Course Proposal Form – Go to next page for Course Modification)

WCC Form for New Course Proposals
(This sheet was originally pink.)

1. How is this course related to the education needs and goals of the College/Department/Community as reflected in the EDP/ADP?

   This course will meet the requirements for a WCC Biological Science (DB) and will support career development for those individuals wishing to obtain employment as veterinary assistants or lab animal technicians.

2. Provide details of any additional staff, equipment, facilities, library/media material, faculty preparation and other financial support that would be required to implement this course. (Include an estimate of the actual cost of supplies and equipment.) What has been done to provide for these additional costs for the proposed date of offering? Who will teach the course?

   This course could be taught by existing Natural Science faculty or by a qualified Veterinary Technician. Necessary supplies and equipment have already been purchased using extramural funds.

3. Is a similar course taught elsewhere in the UH system? * If yes, provide details of how this course differs from existing similar courses.

   Although the topics discussed are similar to ANSC 301 and 350, this course focuses on the anatomy and physiology of companion animals (cats and dogs) rather than livestock. In addition, the course is targeted to vet technicians and veterinary assistants rather than Animal Science majors.

4. Is this course experimental and/or unique to Windward Community College? Yes If yes, provide rationale and details of its impact on the College Curriculum Hawaii is one of only six states that lacks any type of formal training for veterinary technicians and veterinary assistants. As a result, most veterinarians are forced to train staff “off the street”. The proposed course and associated certificate would be unique to WCC and should result in an increase in full-time enrollment by 25-35 students per semester. Students enrolled in ANSC 142 would also take other introductory classes including CHEM 151/151L.

5. Is a similar course taught in the upper division level by a 4-year UH college? Yes If yes, explain why this course is appropriate at the lower division or how it differs from its upper division counterpart.

   Although the topics discussed are similar to ANSC 301 and 350, this course focuses on the anatomy and physiology of companion animals (cats and dogs) rather than livestock. In addition, the scope and difficulty of the course has been adjusted to accommodate students with little to no science background.

6. Please attach a complete course outline. Your course outline should address all the items listed in the Guidelines for Course Outlines.

7. If this course is numbered 100 or above or appropriate for transfer to a 4-year college, complete and attach WCC Form for Transfer Courses (blue). See criteria for transfer courses.
University of Hawaii Community Colleges  
Proposal to Initiate, Modify or Delete a Course  
Articulation with 4-year UH Campus Form

WCC Form for Transfer Courses  
(To be completed for articulation with any 4-year UH campus)  
(This sheet was originally blue.)

Course Alpha and Number ANSC 142

Submitted by Ross Langston, WCC Natural Sciences

Date September 25, 2008

1. List the counterpart to this course on any 4-year UH campus. Describe the relationship between the course any related baccalaureate program area.

2. Is this course taught or accepted by major accredited colleges or universities? Give one or two examples.

   This Course is similar in content to:
   BMS 120 Anatomy for Vet Technicians, Purdue
   AG 511 Anatomy and Physiology, Pierce College
   VT 140 Anatomy and Physiology of Domestic Animals, Colby Community College

3. Please attach a complete course outline if you have not done so already. Your course outline should address all the items listed in the Guidelines for Course Outlines.
COURSE ARTICULATION FORM (GENERAL EDUCATION CORE)

ORIGINATING CAMPUS: Windward Community College        DATE SUBMITTED: September 25, 2008

COURSE ALPHA & NUMBER: ANSC 142   SEMESTER CREDITS: 3

COURSE TITLE: Anatomy and Physiology of Domestic Animals

DATE OF OUTLINE: September 25, 2008        Year 2008

(** Representative outline, no multiple syllabi, please.)

1. Articulation committee to review this course:

   Standing Committees
   Written Communication
   Mathematical & Logical Thinking
   World Civilizations
   Languages
   Arts & Humanities
   Natural Science  
   Social Science

2. The information in this item is required by the reviewing committee so that it has a starting point for reviewing the course. It is the responsibility of the submitting campus to do the necessary research to provide this information.

   In the opinion of the originating campus, this course is equivalent to the following and/or meets the criteria for the indicated core categories. Every core category space, except your own campus, must be filled in (can include 'none'). An equivalent course, if known, may be helpful to committee members but is not required.

<table>
<thead>
<tr>
<th>Receiving Campus</th>
<th>Equivalent Course (Alpha and Number)</th>
<th>Core Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>UH Hilo</td>
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<tr>
<td>UH Manoa</td>
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<td>UH West Oahu</td>
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<tr>
<td>Hawaii CC</td>
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<td>Honolulu CC</td>
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<tr>
<td>Kapiolani CC</td>
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<tr>
<td>Kauai CC</td>
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<tr>
<td>Leeward CC</td>
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<td>Maui CC</td>
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<tr>
<td>Windward CC</td>
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</tbody>
</table>

3. If submitted electronically, I understand that this outline will be posted to a publicly accessible web site to enable open access for reviewing committees and campuses. The outline will be taken off the site upon completion of the review.

Typed Name or Signature

Note: If possible submit coversheet and course outline electronically as e-mail attachments (preferably in 'pdf' format). If submitting in printed form, 20 copies of coversheet and course outline are required for distribution for appropriate review.

Note: UCA Clearinghouse
   John Muth, Office of the Chancellor for Community Colleges, is acting as staff to the University Council on Articulation and is responsible for tracking all courses submitted for articulation.
University of Hawaii Community Colleges
Proposal to Initiate, Modify or Delete a Course
Articulation with 4-year UH Campus Form

ARTICULATEDCOURSE
CHANGE IN ALPHA/NUMBER/TITLE

Old Course

Course Alpha & Number:
Title:

Revised Course

Course Alpha & Number:
Title:
Semester and Year when the revised course was/will be first offered:
Reason for the change in Alpha/Number/and/or Title:

Note: A current outline of the course must be submitted with this form. Undated outlines are not acceptable.

I certify that this course has had its alpha, number, and/or title changed, but that it is substantially the same course as the course that was reviewed and approved for articulation.

Campus: Windward Community College
Certifying Authority (Typed Name or Signature and Title)
Date:

SUBMIT TO: UCA Clearinghouse, Attn: John Muth
Chancellor’s Office for CC, 2327 Dole Street

Revised 1/19/01
ANSC 142
Anatomy and Physiology of Domestic Animals

TR: 9:45-11:00 AM
*Imiloa 123

INSTRUCTOR: TBA
OFFICE: TBA
OFFICE HOURS: TBA
TELEPHONE: TBA
EFFECTIVE DATE: Fall, 2009

WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

Windward Community College is committed to excellence in the liberal arts and career development; we support and challenge individuals to develop skills, fulfill their potential, enrich their lives, and become contributing, culturally aware members of our community.

CATALOG DESCRIPTION

Introduction to the anatomy and physiology of domestic animals. Compares the anatomy and function of major body systems for the cat, dog and horse, with lesser emphasis on birds, reptiles and amphibians. This course is intended for students entering veterinary technology, veterinary assisting or other animal-related fields (3 hrs. lect).

Prerequisite: Credit for or registration in ANSC 142L.

Activities Required at Scheduled Times Other Than Class Times: None

STUDENT LEARNING OUTCOMES

Upon successful completion of ANSC 142, the student should be able to:

1) Discuss the chemical building blocks of major biological molecules.

2) Describe the link between cells, tissues, organs, and organ systems.

3) Identify selected breeds of companion animals and livestock.

4) Contrast the structure and function of major body systems (e.g., skeletal, circulatory, respiratory, and reproductive) among companion animals and selected livestock species.

5) Explain how disease and disorders disrupt the homeostasis of each of the above body systems and discuss how common veterinary medical treatments are used to restore homeostasis.
COURSE CONTENT

Concepts or Topics
The student will describe and integrate basic biological principles and define basic biological terms presented in lecture, required texts, and other instructional materials. These principles include the following areas:

- The scientific method
- Chemistry of living organisms
- Biological macromolecules
- Cellular basis of life
- Membrane transport
- Cell division
- Tissues
- Homeostasis
- Integumentary System: Skin, hair, nails and hooves
- Skeletal system: Bones, joints, and joint movements
- Muscular system: Origins, insertions, and actions
- Nervous System: Major divisions
- Endocrine System: Major hormones and their effects
- Circulatory System: The Heart, Blood, and Blood Vessels
- Respiratory System: Anatomy and Physiology of Respiration
- Digestive System and Metabolism
- Urinary System
- Reproductive system
- Pregnancy and parturition

COURSE TASKS

1) Attend class at scheduled times.
2) Complete assigned readings prior to lecture.
3) Participate in class discussions
4) Complete web-based exercises, in-class activities, and homework.
5) Complete 3 in-class examinations.

ASSESSMENT TASKS AND GRADING

EXAMINATIONS (300 points total-100 points for each exam). The student will take 3 exams (non-cumulative) to demonstrate knowledge and understanding of information presented in the lectures, lecture outlines, text readings, and study guide activities.

ASSIGNMENTS (80 points): Students are expected to complete exam study guides (50 points), participate in in-class reviews (15 points), and complete periodic homework assignments (15 points). The format of these activities will be discussed in class.

ATTENDANCE (20 points): Attendance is mandatory. Each student is allowed two absences without penalty. Each unexcused absence above two will result in a deduction of points from the student’s attendance score.
METHOD OF GRADING
The assignment of points will be according to the following:

<table>
<thead>
<tr>
<th></th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams</td>
<td>300</td>
</tr>
<tr>
<td>Activities</td>
<td>80</td>
</tr>
<tr>
<td>Attendance</td>
<td>20</td>
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<tr>
<td><strong>TOTAL</strong></td>
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</table>

GRADING SCALE

<table>
<thead>
<tr>
<th>Total Points</th>
<th>Percentage Points</th>
<th>Grade</th>
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<tbody>
<tr>
<td>358-400</td>
<td>90-100</td>
<td>A</td>
</tr>
<tr>
<td>318-357</td>
<td>80-89</td>
<td>B</td>
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<td>278-317</td>
<td>70-79</td>
<td>C</td>
</tr>
<tr>
<td>238-277</td>
<td>60-69</td>
<td>D</td>
</tr>
<tr>
<td>&lt;238</td>
<td>0-59</td>
<td>F</td>
</tr>
</tbody>
</table>

Grades may be curved at the instructor’s discretion; however, the student should use the above grading scale to evaluate their performance throughout the class. If you miss an examination because of an illness or legitimate emergency, you must contact the instructor within 48 hours to arrange a time to take a make-up exam. The instructor may request that the student present evidence of the illness or emergency that caused the student to miss the exam. If the student misses an exam for any other reason, the student may be prohibited from taking a make-up exam, thus failing to receive any points for the missed exam. While make-up exams will cover the same content area as a missed exam, the exam format and specific questions may be different.

No retests will be given for any reason.

ACADEMIC DISHONESTY
Students involved in academic dishonesty will receive an "F" grade for the course.
Academic dishonesty includes cheating on exams and plagiarism. See the 2007-2008 course catalog for a description of the University’s policies concerning academic dishonesty.

LEARNING RESOURCES


Lecture Outlines: Powerpoint outlines for this course are available in booklet form at the WCC bookstore and as an Adobe PDF file on the Laulima site (below).

Laulima: Your instructor has created a Laulima website to accompany this course. This website contains lecture outlines, copies of course forms and syllabi, and links to on-line learning resources. Students enrolled in ANSC 142 or ANSC 142L are automatically enrolled in the ANSC 142 Laulima website. To access, go to https://laulima.hawaii.edu/portal. Login using your UH username and password and click on ANSC 142/142L.
STUDENT RESPONSIBILITIES
The student is expected to attend lectures, participate in all course activities, and complete all examinations and course assignments on time. Please be considerate to other students by turning off any cell phones or beepers during class. Any changes in the course schedule, such as examination dates, deadlines, etc., will be announced ahead of time on the course website. It is the student's responsibility to be informed of these changes. It is the student's responsibility to be informed about deadlines critical to making registration changes (e.g., last day for making an official withdrawal).

HOW TO SUCCEED IN THIS CLASS
Although you can purchase or download all lecture outlines, you will not succeed in this class without attending lecture and taking detailed notes on the corresponding material in the textbook. Merely reading the chapter will not suffice. Science courses at WCC generally require a minimum of two to three hours of independent study time for each hour in class. It is your responsibility to allocate the appropriate amount of time needed for study and be realistic about all personal and professional commitments that may cut into your study time.

As part of your studies, you will need to understand a veritable mountain of medical and anatomical terms, most of which will probably be foreign to you. Most important vocabulary words appear in boldface throughout your textbook. One way to learn these vocabulary words is to make flash cards so you can quiz yourself. Answering the "Test Yourself" questions located throughout the chapter can also be a helpful way to learn new vocabulary and evaluate your comprehension of important concepts.

In addition to vocabulary, you will be expected to have a detailed understanding of the mechanisms regulating the homeostasis of major body systems. In many cases, these systems are regulated by negative feedback loops. Your instructor will outline the most important feedback loops for each body system. You should be familiar with the components of these loops and be able to predict what will happen if one or more of the components are modified or removed.

ACCOMMODATION FOR STUDENTS WITH DISABILITIES
If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to fully participate in this class, you are encouraged to contact the Disability Specialist Counselor to discuss reasonable accommodations that will help you succeed in this class. Ann Lemke can be reached at 235-7448, lemke@hawaii.edu, or you may stop by Hale ‘Akoakoa 213 for more information.
<table>
<thead>
<tr>
<th>Week</th>
<th>Lect</th>
<th>Date</th>
<th>Topics</th>
<th>Reading</th>
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<tbody>
<tr>
<td>1</td>
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<td>T 8/25</td>
<td>Course Introduction/Levels of Biological Organization</td>
<td>Syllabus, CH 1: 1-8</td>
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<td>2</td>
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<td>Chemical Basis for Life</td>
<td>CH 2: 10-24</td>
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<td>Cellular Physiology</td>
<td>CH 3: 63-83</td>
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<td>R 9/10</td>
<td>Epithelial Tissues</td>
<td>CH 4: 91-106</td>
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<td>T 9/15</td>
<td>Connective Tissues, Muscle &amp; Nervous Tissue</td>
<td>CH 4: 107-130</td>
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<td>CH 6: 154-174</td>
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<td>Cardiac Physiology and Circulation</td>
<td>CH 8: 213-219</td>
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<td>Blood, Lymph &amp; Immunity</td>
<td>CH 9: 220-246</td>
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<td>Respiratory Anatomy &amp; Physiology</td>
<td>CH 10: 247-263</td>
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<td>Digestive System</td>
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<td>Nutrition</td>
<td>CH 12: 283-296</td>
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<td>Metabolism</td>
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<td>Nervous Tissue</td>
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<td>R 11/12</td>
<td>Brain and Spinal Cord</td>
<td>CH 13: 324-336</td>
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<td>General &amp; Special Senses</td>
<td>CH 14: 337-357</td>
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<td>Endocrine System</td>
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<td>Urinary Anatomy &amp; Physiology</td>
<td>CH 16: 374-386</td>
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<td>Holiday: Thanksgiving</td>
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<td>T 12/1</td>
<td>Male and Female Reproductive Systems</td>
<td>CH 17: 387-404</td>
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<td>Pregnancy, Development, and Parturition</td>
<td>CH 18: 405-413</td>
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<td>Avian Anatomy and Physiology</td>
<td>CH 19: 415-452</td>
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<td>29</td>
<td>R 12/10</td>
<td>Review</td>
<td></td>
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- Last day to drop without "W" grade:
- Last day to Withdraw ("W" entered on transcript):
- Final Exam: