ANSC 151 Clinical Laboratory Techniques
Friday 2pm - 6pm | Saturday 8am – 4pm

INSTRUCTOR: Zachary Albudri, DVM
OFFICE: Maui College – Room TBD
TELEPHONE: 236-9107 271-7883 EMAIL: zalbudri@hawaii.edu
EFFECTIVE DATE: Fall 2016

WINDWARD COMMUNITY COLLEGE
MISSION STATEMENT

Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawai‘i and its unique heritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide O‘ahu’s Koʻolau region and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.

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Provides students with the background knowledge needed to perform and interpret laboratory techniques commonly used in veterinary practice. Topics include: commonly used laboratory equipment, hematology, clinical chemistry, urinalysis, internal and external parasitology of companion animal species. Will include a review of the physiology of major body systems and an overview of common diseases seen in veterinary practice. This course is intended for students entering veterinary assisting, veterinary technology or other animal-related fields.

Prerequisite: Credit for ANSC 142 and 142L. Credit for or registration in ANSC 151L.

STUDENT LEARNING OUTCOMES

1. Describe the procedures for safely collecting specimens from domestic animals.
2. Describe the procedures for routine diagnostic tests performed in domestic animals.
3. Compare the technologies used by automated hematology and blood chemistry machines and discuss their impacts on the accuracy and reliability of test results.
4. Identify internal and external parasites common to companion animal species.
5. Describe the functions and physiology of the digestive, endocrine, circulatory, respiratory, reproductive and urinary systems.
6. Discuss the clinical tests used to assess function of the above body systems and be able to distinguish normal vs. abnormal results.

**COURSE CONTENT**

- Commonly used laboratory equipment
- Proper collection and handling of laboratory specimens
- Laboratory safety/OSHA regulations and MSDS information
- Hematology
- Blood chemistry analysis
- Urinalysis
- Parasitology: Identification and life cycle of internal and external parasites
- Zoonotic Diseases
- Anatomy and physiology review of the circulatory, respiratory, urinary, digestive endocrine, reproductive systems as related to laboratory diagnostics

**COURSE TASKS**

1. Participate in laboratory sessions four times during the semester (listed on syllabus)
2. Complete a mid-term and final practicum

**ASSESSMENT TASKS AND GRADING**

**ATTENDANCE**: Attendance is mandatory. Students are expected to participate and follow all instructor requests.

**EXAMINATIONS/Practicums**: Two exams (practicums) where students will be asked to perform a variety of laboratory tests/evaluations based on the instructor’s choices. Each exam will be worth 50 points.
Points | Percentage | Letter | Practicum 1 | Final practicum | Total  
--- | --- | --- | --- | --- | --- 
90-100 | 90-100% | A | 50 points | 50 points | 100 points 
80-89 | 80-89% | B | 
70-79 | 70-79% | C | 
<69 | 0-69% | F | 

LEARNING RESOURCES

Required Textbook:

OPTIONAL TEXTBOOKS:


Additional Information

1. There are only four laboratory sessions scheduled through the semester. As such the student must ensure that all lab sessions are attended. Any absences will result in a final grade of F unless extreme circumstances occur (accepted on a case-by-case basis)

ACADEMIC DISHONESTY

Students involved in academic dishonesty will receive an "F" grade for the course.

Academic dishonesty includes cheating on exams and plagiarism. See pages 20-21 of the 2009-2011 course catalog for a description of the University’s policies concerning academic dishonesty.

DISABILITIES ACCOMMODATION STATEMENT
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.

**ANSC 151 Course Schedule**

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<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Time</th>
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<tbody>
<tr>
<td>Friday September 9</td>
<td>Laboratory session 1</td>
<td>2 pm – 6 pm</td>
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<tr>
<td>Saturday September 10</td>
<td>Laboratory session 2</td>
<td>8 am – 4 pm</td>
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<td>Friday October 7</td>
<td>Laboratory session 3</td>
<td>2 pm – 6 pm</td>
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<td>Saturday October 8</td>
<td>Laboratory session 4</td>
<td>8 am – 4 pm</td>
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<td>Friday October 21</td>
<td>Laboratory session 5</td>
<td>2 pm – 6 pm</td>
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<td>Saturday October 22</td>
<td>Laboratory session 6</td>
<td>8 am – 4 pm</td>
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<td>(Practicum 1)</td>
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<td>Friday November 18</td>
<td>Laboratory session 7</td>
<td>2 pm – 6 pm</td>
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<tr>
<td>Saturday November 19</td>
<td>Laboratory session 8</td>
<td>8 am – 4 pm</td>
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<tr>
<td>(Final practicum)</td>
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