

ANSC 151 Clinical pathology MAUI

ANSC 151 Clinical Laboratory Techniques

3 Credits

INSTRUCTOR: Zachary Albudri, DVM

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OFFICE HOURS: TBD

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EFFECTIVE DATE: Fall 2016

First day of class August 22, 2016

Final day of instruction December 8, 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 Ko'olau region and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.

CATALOG DESCRIPTION

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

Describe the procedures for safely collecting specimens from domestic animals.

Describe the procedures for routine diagnostic tests performed in domestic animals.

Compare the technologies used by automated hematology and blood chemistry machines and discuss their impacts on the accuracy and reliability of test results.

Identify internal and external parasites common to companion animal species.

Describe the functions and physiology of the digestive, endocrine, circulatory, respiratory, reproductive and urinary systems.

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

Review recorded powerpoints.

Read assigned materials.

Complete examinations.

ASSESSMENT TASKS AND GRADING

Two exams and one final.

Exam 1 30 Points

Exam 2 30 Points

Final exam 40 Points

Final Grade is calculated out of 100 points

A 100-90

B 80-89

Any grade earned below 69.5 will result in a grade of F

ATTENDANCE

This is an online class and the student will be responsible for performing course requirements in a timely manner.

EXAMINATIONS

Exam 1 will be available online between Sun September 18 (midnight) - Sunday September 25 (midnight)

Exam 2 will be available online between Sun October 23 (midnight) - Sunday October 30 (midnight)

The Final exam will be available online between Sun December 4 (midnight) - Sun December 11 (midnight)

LEARNING RESOURCES

Required Textbook:

Margi Sirois , Laboratory Procedures for Veterinary Technicians, 5th edition, St. Louis, MO, Mosby Inc, 2014. (ISBN: 978-0-323-04572-8)

OPTIONAL TEXTBOOKS:

Reagan, William, et al. Veterinary Hematology: Atlas of Common Domestic and Non-Domestic Species, 2nd edition, Ames, IA, Wiley-Blackwell, 2008 (ISBN-13: 978-0-8138-2809-1)

Bassert, Joanna and Dennis McCurnin, McCurnin's Clinical Textbook for Veterinary Technicians , 8th edition, St Louis, MO, Saunders Elsevier, 2010. (ISBN: 978-1-4160-5700-0)

Voigt, Gregg and Swist, Shannon, Hematology Techniques and Concepts for Veterinary Technicians, 2nd edition, Hooken, NJ, Wiley-Blackwell, 2011. (ISBN: 978-0-8138-1456-1)

HOW TO SUCCEED IN THIS COURSE

This class covers a variety of clinical laboratory techniques that requires a good understanding of animal anatomy and physiology. You may need to review your physiology textbook and class notes to fully understand how to use and apply diagnostic laboratory tests.

Form effective study groups with your classmates. Come prepared, meet on a schedule, change up the format. If you'd like more guidance on study groups, please ask.

SCHEDULE & READING ASSIGNMENTS

ACADEMIC DISHONESTY

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

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

Week(s)	Date	Topic	Reading (Hendrix/Siroix)
1	August 22- August 28	Syllabus & The veterinary practice lab	Ch 1 PP 1-26
2- 4	August 29- September 18	Hematology and Serology	Ch 2 PP 27- 73 Ch 8 PP 264-286
Exam 1	September 18- September 25		
5	September 19- September 25	Hemostasis	Ch 12

6-8	September 26- October 16	Clinical Chemistry	Ch 3 PP 74-113
9	October 17- October 23	Urinalysis	Ch 5
<i>Exam 2</i>	<i>October 23- October 30</i>		
10-13	October 24- November 20	Parasitology	Ch 6 PP 181-264
14-15	November 21- December 4	Microbiology	Ch 4 PP 114-150
<i>Final Exam</i>	<i>December 4- December 11</i>		