

VTHT 2323
AUSTIN COMMUNITY COLLEGE
Semester: Spring 2023 [# from Blackboard]

PROGRAM: Veterinary Technology

COURSE NUMBER: VTHT 2323 – Veterinary Clinical Pathology I

COURSE TIME/LOCATION:

Lecture: Elgin campus

Monday 9:00am – 9:55am

Wednesday 9:00am – 9:55am

EGN 2127

Lab: Elgin campus in multiple sections

Section 1 Monday 1:30pm – 4:10pm

EGN 2129

Section 2 Wednesday 1:30pm – 4:10pm

EGN 2129

FACULTY INFORMATION:

Name	Office	Phone	Email
Amanda Schoolcraft BS, LVT	2112	512-223-9487	Amanda.Schoolcraft@austincc.edu
Kate Peterson BS, LVT	2109	512-223-9492	Katie.Peterson@austincc.edu

Arranging conferences/appointments: Email instructor for virtual or in person appointment

WEBSITE: sites.austincc.edu/health/vtht/

COURSE DESCRIPTION: Veterinary Clinical Pathology I is a lecture and laboratory survey of clinical pathology in the veterinary practice. Major topics to be covered include: laboratory safety and design, operation of lab equipment, quality control in the private practice laboratory, laboratory math, collection and processing of lab samples, hematology and coagulation, blood chemistry, urinalysis, and introduction to cytological techniques. This course includes an in-depth study of hematology and blood chemistries with emphasis on lab procedures.

- **Credit Hours: 3**
- **Classroom Contact Hours per week: 2**
- **Laboratory Contact Hours per week: 3**

Transferability of workforce courses varies. Students interested in transferring courses to another college should speak with their Area of Study (AoS) Advisor, and/or Program Director.

COURSE PREREQUISITES: VTHT 1301, 1413, 1217

COURSE RATIONALE: The purpose is to help the student develop a clear understanding and appreciation of the complex nature of veterinary clinical pathology. This course will prepare students with the knowledge and

experience required to work successfully in the veterinary hospital laboratory. Students will also be prepared to continue their education in the veterinary technology program.

COURSE STUDENT LEARNING OUTCOMES: Upon completion of the course the student will be able to:

1. Proper handling and preparation of specimens for diagnostic analysis
2. Select and maintain laboratory equipment
3. Implement quality control measures in veterinary laboratories
4. Ensure safety of patients, clients and staff in regards to sample collection and handling
5. Perform urinalysis:
 - Collect voided urine sample
 - Determine physical properties (color, clarity, specific gravity)
 - Test chemical properties
 - Examine and identify sediment
6. Perform CBC:
 - hemoglobin
 - packed cell volume
 - total protein
 - white cell count
 - red cell count
7. Perform microscopic exam of blood film:
 - prepare film and stain using a variety of techniques
 - perform leukocyte differential – normal and abnormal
 - evaluate erythrocyte morphology – normal and abnormal
 - estimate platelet numbers
 - calculate absolute values
 - correct white blood cell counts for nucleated cells
8. Calculate hematologic indices
9. Perform blood chemistry tests (BUN, glucose, common enzymes)
10. Identify blood parasites

PROGRAM STUDENT LEARNING OUTCOMES:

These learning outcomes are listed in the Veterinary Technology Student Handbook and on Blackboard.

SCANS Competencies

In 1990, the U.S. Department of Labor established the Secretary's Commission on Achieving Necessary Skills (SCANS) to examine the demands of the workplace and whether our nation's students are capable of meeting those demands. The Commission determined that today's jobs generally require competencies in the following areas:

Resources: Identifies, organizes, plans and allocates resources

Interpersonal: Works with others

Information: Acquires and uses information

Systems: Understands complex interrelationships

Technology: Works with a variety of technologies

The Texas Higher Education Coordinating Board requires that all degree plans in institutions of higher education incorporate these competencies and identify to the student how these competencies are achieved in course objectives.

VTHT 2321 COMPETENCE	EXAMPLE OF LEVEL
Resources	Identifies resources used in course and allocates time for studying.
Interpersonal	Shares experiences and knowledge with classmates, works as a member of a team for any assigned activities.
Information	Identifies cells, and structures in different samples and must correctly report that to the instructor.
Systems	Identifies sources and possible causes of the changes seen in samples.
Technology	Uses online sites and other sources to identify cells and what their presence might mean.
Basic Skills	Reads assigned pages.
Thinking Skills	Identifies and prepares for tests, quizzes and research activities.
Personal Qualities	Works as a team member for any assigned activities. Asserts self and networks with classmates and virtual lab to obtain information on current topics.

TEXTBOOK:

“Laboratory Procedures for Veterinary Technicians”, Margi Sirois, 7th ed.

“Laboratory Manual for Procedures for Veterinary Technicians”, Margi Sirois, 7th ed.

INSTRUCTIONAL METHODOLOGY: Classroom and Laboratory

GRADING SYSTEM: The Veterinary Technology courses use the following scale for determination of final grades:

A = 92-100%

B = 83-91%

C = 75-82%

D= 60-74%

F = below 60%

A grade of 75% or above is required for both lecture and lab to pass any subject area.

Grade of D is allowed for ACC records, but will disqualify students for progression through the program. Due to the nature of the program, you would not be able to take the class again until the following academic year – if there is space available. You must pass the lecture, lab, and kennel duty portions with a 75% or above to pass the class. If you have a 75% or above in all portions, the grades will be combined to calculate your final grade. **Final grades are not rounded.**

This class has essential skills associated with it. These are set by our accrediting body, the CVTEA. It is the student’s responsibility to ensure that these skills are successfully completed in the presence of program faculty and documented in Salthouse by the end of the semester.

Before a student may progress to a subsequent semester, the student must demonstrate proficiency in the essential skill(s) required of each class. Duplicate essential skills requirements may be present in multiple

classes or semesters, and students may be required to demonstrate proficiency in essential skills multiple times. At the sole discretion of the instructor, exceptions to the above requirements may be granted in the event that insufficient time exists to adequately teach one or more essential skills. If a student fails to complete any assigned skill for the semester, the case will be reviewed by the instructor(s) and program chair to determine the student's progression.

METHOD OF EVALUATION:

15 % Assignments, quizzes and presentations
45 % Exams
25 % Laboratory
15 % Final

*** (Assignments/quizzes, exams and final are all part of your lecture grade)*

*****NOTE:** You must pass both the lab and lecture portion with a 75% or above to pass the class. If you have above a 75% in both, the grades will be combined for your final grade. **Final grades for each portion are not rounded.**

Late Assignment Policy: Assignments are expected to be turned in on time. If for some reason you are not able to get it turned in on time you can submit the next business day for a 50% deduction. The assignment can be submitted in person or scanned and emailed to the instructor.

Absences: All students are expected to be in class or lab on time. If a class or lab is missed, it is considered either excused or unexcused by the instructor. An absence will be determined by the following criteria.

Excused absences refer to unavoidable circumstances that prevent a student from attending class/lab on time that could not have been previously prevented by the student.

Examples include illness, medical emergency, death in the family.

Unexcused absences refer to circumstances that prevent a student from attending class/lab on time that could have previously been prevented by the student.

Examples include vacation, oversleeping, work.

Only 2 excused absences will be permitted each semester. All absences thereafter will be reported as unexcused and will result in a loss of credit for the lecture or lab.

Exam Policy: You are expected to take all exams when scheduled. Exams for this class will be given during class using Blackboard.

To take an exam at a time other than the scheduled time in which it is given, the absence must be considered an **excused absence** by the instructor. Written evidence must be presented. If you miss an exam, arrangements must be made up within a week of when it was given. If it is not taken by that time, you will receive a zero for that exam. Only one exam may be made up during this course. If more than one exam is missed, you will receive a zero on all other missed exams.

COURSE POLICIES:

Attendance/Class Participation: Regular and timely class participation in discussions and completion of work is expected of all students.

For each time a student is late for:

- **Lab - 10pts** will be deducted from the overall Lab grade
- **Lecture - 10pts** will be deducted from the overall Lecture grade

If attendance or compliance with other course policies is unsatisfactory, the instructor may withdraw students from the class.

Laboratories are critical. If a lab is missed and it is considered an **excused absence**, it is the **student's responsibility** to schedule with the instructor any possible make-up of skills or material missed. Arrangements to make up the missed laboratory material must be scheduled within 1 week of the missed lab.

Communication is key! If a lab is missed because of an **unexcused absence**, **10% will be deducted from the overall Lab Grade and no make-up lab will be given.**

3 missed labs will result in a 70% in the lab portion of the class. This is below the 75% needed to pass the lab and will result in failure of the course.

In the event the college or campus closes due to unforeseen circumstances (for example, severe weather or other emergency), the student is responsible for communicating with their professor during the closure and completing any assignments or other activities designated by their professor as a result of class sessions being missed.

Withdrawal Policy

It is the responsibility of each student to ensure that his or her name is removed from the roll should he or she decide to withdraw from the class. The instructor does, however, reserve the right to drop a student should he or she feel it is necessary. If a student decides to withdraw, he or she should also verify that the withdrawal is submitted **before** the Final Withdrawal Date.

The student is also strongly encouraged to retain their copy of the withdrawal form for their records.

April 24, 2023 is the final withdrawal date.

Students are responsible for understanding the impact that withdrawal from a course may have on their financial aid, veterans' benefits, and international student status. Per state law, students enrolling for the first time in Fall 2007 or later at any public Texas college or university may not withdraw (receive a W) from more than six courses during their undergraduate college education. Some exemptions for good cause could allow a student to withdraw from a course without having it count toward this limit. Students are strongly encouraged to meet with an advisor when making decisions about course selection, course loads, and course withdrawals."

Incompletes

An instructor may award a grade of "I" (Incomplete) if a student was unable to complete all of the objectives for the passing grade in a course. You will not be able to carry an incomplete beyond the final deadline for withdrawal in the next semester of the program.



STUDENT TECHNOLOGY SUPPORT:

Austin Community College provides free, secure drive-up WiFi to students and employees in the parking lots of all campus locations. WiFi can be accessed seven days a week, 7 am to 11 pm. Additional details are available at <https://www.austincc.edu/sts>.

Students who do not have the necessary technology to complete their ACC courses can request to borrow devices from Student Technology Services. Available devices include iPads, webcams, headsets, calculators, etc. Students must be registered for a credit course, Adult Education, or Continuing Education course to be eligible. For more information, including how to request a device, visit <http://www.austincc.edu/sts>.

Student Technology Services offers phone, live-chat, and email-based technical support for students and can provide support on topics such as password resets, accessing or using Blackboard, access to technology, etc. To view hours of operation and ways to request support, visit <http://www.austincc.edu/sts>.

Course Outline / Calendar - Please note that schedule changes may occur during the semester. Any changes will be announced in class and posted as a Blackboard Announcement (or other resource faculty is using to communicate).

Date	Topic Area/Objective	Reading Assignments
Week 1 Jan 16	The Clinical Pathology Laboratory	Unit 1 MLK Holiday!
Week 2 Jan 25	Hematology	Unit 2
Week 3 Jan 30	Hematology	Unit 2
Week 4 Feb 6	Hematology	Unit 2
Week 5 Feb 13	Hematology Exam 1 - Units 1 & 2	Unit 2
Week 6 Feb 20	Urinalysis	Unit 5
Week 7 Feb 27	Urinalysis	Unit 5/ Unit 6
Week 8 Mar 6	Urinalysis Exam #2 - Units 2 & 5	Unit 5/ Unit 6
Mar 13	 Spring Break 	
Week 9 Mar 20	Automated Analyzers Sample Collection & Handling	Unit 6 - Chapter 32
Week 10 Mar 27	Blood Chemistry - Liver	Unit 6 - Chapter 32
Week 11 Apr 3	Blood Chemistry - Kidney	Unit 6 - Chapter 33
Week 12 Apr 10	Blood Chemistry - Pancreas/Electrolytes	Unit 6 - Chapter 34 & 35
Week 13 Apr 17	Clinical Chemistry - Miscellaneous Exam #3 - Units 5 and 6	Unit 6 - Chapter 36
Week 14 Apr 24	Cytology	Unit 9
Week 15 May 1	Cytology	Unit 9 Lab Final
Week 16 May 8	Final Exam – Comprehensive	

VTHT 2323 – Veterinary Clinical Pathology I

By signing below, I declare that I have received a copy of the course syllabus for VTHT 2323, Veterinary Clinical Pathology I and have had a chance to review it and understand the contents of the syllabus. This is for the semester inclusive of the date below.

Student Signature

Date

Printed Name