VETT 2120
VETERINARY CLINICAL PATHOLOGY II

MASTER COURSE SYLLABUS

Instructors will provide students with additional course-specific information, including attendance/makeup policies, assignment/test scheduling, and instructor contact information, as necessary and appropriate.

Prerequisite(s):	VETT 1020 with a grade of "C" or higher
Co-requisite(s):	None
Term(s) Offered:	Summer
Class Hours:	2
Lab Hours:	6
Credit Hours:	4

Course Description

This course provides continued study in the principles and procedures for the veterinary practice diagnostic laboratory. Topics include hematology, clinical chemistry, cytology, serology, and urinalysis. Students must pay a $30 supply fee when registering for this course.

Course Competencies and Student Learning Outcomes

Hematology and Clinical Chemistry

Order	Description
1	Perform procedures to prepare blood samples for hematologic and blood chemistry tests.
2	Determine gross characteristics of serum and/or plasma
3	Determine hematocrit/PCV of blood
4	Determine total solids of plasma using a refractometer
5	Use automated cell counters to determine red and white blood cell counts, platelet counts, hemoglobin concentration and red blood cell indices.
6	Prepare and stain blood films
7	Perform a leukocyte differential including the calculation of absolute values.
8	Evaluate erythrocyte morphology.
9	Perform an estimated platelet count.
10	Calculate a corrected white blood cell count.
11	Perform a reticulocyte count.
12	Perform the activated clotting time test and/or mucosal bleeding time test.
13	Perform routine tests for detecting microfilaria using a direct examination +/- filter test
14	Identify common blood parasites (Mycoplasma haemofelis)
15	Perform blood chemistry tests

Cytology

Order	Description
1	Collect, prepare, and evaluate ear cytology.
2	Collect, prepare, and evaluate canine vaginal smears.

Serology

Order	Description
1	Perform ELISA serologic tests (Dirofilaria sp).
2	Perform a slide or card agglutination test.

Urinalysis

Order	Description
1	Determine physical properties (color, clarity and specific gravity)
2	Perform testing of chemical properties
3	Prepare sample for urine sediment examination
4	Identify components of sediment in urine.

Required Textbook(s) and Materials

Students enrolled in this course are obligated to have the following:

Bassert JM, Thomas JA. ***Clinical Textbook for Veterinary Technicians***. 8th ed. St. Louis:Elsevier, 2014. ISBN: 978-1437726800

Battaglia AM. ***Small Animal Emergency and Critical Care A Manual for the Veterinary Technician.*** 2nd ed. St. Louis:Saunders Elsevier, 2007. ISBN: 978-1416028048

Crow S, Walshaw S. ***Manual of Clinical Procedures in Dogs, Cats, Rabbits & Rodents***, 3rd ed. Ames, IA:Wiley-Blackwell, 2009. ISBN: 978-0813813042

Dorland's Pocket Medical Dictionary, 29th ed. Philadelphia: Saunders, 2012. ISBN: 978-1455708437

Hendrix CM, Robinson E. ***Diagnostic Parasitology for Veterinary Technicians***, 4th ed. St. Louis:Elsevier, 2012. ISBN: 978-0323077613

Rockett J, Christensen C. ***Case Studies in Veterinary Technology,*** Heyburn, ID:Rockett House Publishing, 2010. ISBN: 978-0615435053

Sirois M. ***Laboratory Procedures for Veterinary Technicians***, 6th ed. St. Louis:Mosby, 2014. ISBN: 978-0323169301

Sirois M. ***Laboratory Manual - Laboratory Procedures for Veterinary Technicians***, 6th ed. Maryland Heights, MO:Elsevier, 2015. ISBN: 978-0323169264

Faculty. ***VETT 2120: Clinical Pathology II Laboratory Manual***. Athens, GA:Published by the Authors.

Supplemental/Recommended Textbook(s) and Materials:

Chew DJ, DiBartola SP. ***Interpretation of Canine and Feline Urinalysis.*** Wilmington, DE:Ralston Purina, 1998. ISBN: 978-0967800523

Foreyt WJ. ***Veterinary Parasitology Reference Manual***, 5th ed. Ames, IA:Wiley-Blackwell, 2001. ISBN: 978-0813824192

Jack CM, Watson PM. **Veterinary Technician's Daily Reference Guide Canine and Feline.** 3rd ed. Ames, IA:Wiley-Blackwell, 2014. ISBN: 978-1118363508

Reagan WJ, Irizarry Rovira AR, DeNicola DB. ***Veterinary Hematology: Atlas of Domestic and Non-Domestic Species,*** 2nd ed. Ames, IA:Wiley-Blackwell, 2008. ISBN: 978-0813828091

Rebar AH. ***Hemogram Interpretation for Dogs and Cats.*** Wilmington, DE:Ralston Purina, 1998. ISBN: 978-0967800516

Voigt GL, Swist SL. ***Hematology Techniques and Concepts for Veterinary Technicians.*** 2nd ed. Ames, IA:Wiley-Blackwell, 2011. ISBN: 978-0813814568

Grading Scale

The grading scale is detailed in the *Catalog and Student Handbook* and listed below for reference. All faculty members follow this scale when assigning grades to reflect a given student's performance in the classroom.

Grade	Numerical Equivalent	Grade Point
A/A*	90-100	4
B/B*	80-89	3
C/C*	70-79	2
D/D*	60-69	1
F/F*	0-59	0

The registrar uses an asterisk (A*, B*, C*, D*, F*, W*, WF*, WP*) to designate learning support course grades on transcripts and grade reports because these grades are not components of the term grade point average.

Academic Support Center:

The Academic Support Centers of Athens Technical College (ATC) provide free tutoring for enrolled students. Both instructors and peer tutors provide tutoring in almost all subjects offered by the college. Information about the Center is accessible via the ATC website at http://www.athenstech.edu/StudentDevelopmentServices/AcademicSupportCenter. To find out the specific services available on the Athens, Greene, and Walton Campuses, please call (706) 583-2839. To contact the Academic Support Center on the Elbert County Campus, please call (706) 213-2129.

Attendance

Regular class attendance is important and expected. The college considers both tardiness and early departure from class as forms of absenteeism. Students absent from class for any reason are still responsible for all work missed. Instructors have the right to determine whether work missed can be made up and have the liberty to set reasonable expectations for attendance based on frequency of class meetings and on the instructional delivery method, subject, type, and level of the class. Class attendance policies will be clearly stated for students by their respective instructors on separate documents (course outlines/schedules) or appendices to the master syllabus.

Course Withdrawal

Students may withdraw from a course without academic penalty until the midpoint of the term. Students withdrawing after the midpoint of the term receive grades of WP – Withdrawal Passing, or WF – Withdrawal Failing. Students who stop attending class(es) without formally withdrawing risk earning a final grade of F, which will appear on the academic transcript. Withdrawing from a course may impact financial aid status, academic standing, and GPA. Refer to the ATC *Catalog and Student Handbook* for further details. http://www.athenstech.edu/Catalog/

Course Technology

Course addendum will provide details concerning the use of technology in the course. Course schedule types include **web-enhanced** – taught face-to-face; **online** – taught online using the internet, may require proctored exam; **hybrid** – class time is split between face-to-face and online; **video conference** – taught at two or more campus locations simultaneously with instructor located at one of the classroom locations. More details are available on the Athens Technical College website. http://www.athenstech.edu/eLearning/CourseList.cfm

Continuation of Instruction

In the event of severe weather or other emergency, students will be expected to continue participating in learning activities via ANGEL, Athens Technical College email, or other modality. Instructors will provide a plan for the continuation of instruction.

Work Ethics:

To fulfill the responsibility to teach essential workplace ethics, the college provides students instruction in, and evaluates students on, the following ten work ethics traits: attendance, character, teamwork, appearance, attitude, productivity, organizational skills, communication, cooperation, and respect. To best equip students for successful workplace experiences in their chosen profession, instruction and evaluation takes place in the context of their program of study.

Academic Honesty

Academic honesty is expected at all times. Any student found to have engaged in academic misconduct such as cheating, plagiarism, or collusion is subject to disciplinary sanctions as outlined in the Student Code of Conduct detailed in the ATC *Catalog and Student Handbook* . See the following link for the complete Academic Honesty policy. http://www.athenstech.edu/StudentAffairs/AcademicHonesty/Academic%20Honesty.pdf
Students are also advised to complete the tutorial on Academic Honesty available here:
http://www/athenstech.edu/StudentAffairs/AcademicHonesty

Americans with Disabilities Act

It is our goal at Athens Technical College to provide equal access to education for all students. Any student with a documented disability is eligible to receive reasonable academic adjustments and auxiliary aids in the classroom and/or for testing at Athens Technical College, as long as appropriate documentation of the disability has been submitted to the Disability Services Office in a timely manner. Students can access the application packet on our website. http://www.athenstech.edu/CurrentStudents/orientation/files/disability_services_application.pdf

Cell Phones and Electronic Devices

Cell phone use in the classroom for non-instructional purposes, with the exception of receiving emergency notifications, is prohibited.

Food/Drinks in Classroom

Food and beverages (other than water) are not allowed in classrooms/laboratories/clinical assignments.

Communication with ATC Faculty and Staff

Students, faculty, and staff must use Athens Technical College email and ANGEL accounts for all college-related communications. Students are obligated to check their email and ANGEL accounts on a regular basis, preferably daily.

Warranty of Graduates

The Technical College System of Georgia warranties every graduate of technical programs in which students may earn technical certificates of credit, diplomas, or associate degrees. The warranty guarantees that graduates demonstrate the knowledge and skills and can perform each competency as identified in the industry-validated standards established for every program of study. If one of our graduates educated under a standard program or his/her employer finds that the graduate is deficient in one or more competencies as defined in the course/program standards, Athens Technical College will retrain the employee at no instructional cost to the employee or the employer. This guarantee is in effect for two years after graduation.

TEACH Act

According to the TEACH Act of 2002, Athens Technical College is obligated to advise you that instructional material included in this course may be subject to copyright protection. As such, you must not share, duplicate, transmit, or store the material of this course beyond the purpose and time frame explicitly stated in the syllabus of your course. If you are not certain whether a particular piece of material is covered by copyright protection, you should contact your instructor and obtain his/her written clarification. Failing to observe copyright protection is a violation of law.