

VEM 5162 Systemic Pathology

SEMESTER: SPRING 2021

CREDIT HOURS: 3 CREDIT HOURS

GRADING SYSTEM: A-E GRADING

PHASE: II

Course Coordinator

Name: Lisa Farina, DVM, Diplomate ACVP

Phone: 352-294-4114

Email: farinal@ufl.edu

Office Hours: By appointment only

Course Description

Systemic pathology is focused on pathologic responses of organ systems to injury and the responses of organ systems in specific diseases. Emphasis in studying material presented in lecture and in laboratory should focus on:

- 1) Understanding of definitions of pathologic entities affecting organ systems;
- 2) Understanding of the pathogenesis of these entities;
- 3) Understanding functional consequences of the pathologic entities;
- 4) Understanding sequelae of the pathologic entities;
- 5) Recognition of morphologic features associated with pathologic entities for use in future clinical and other diagnostic activities.

Laboratories will focus on examination of digitized slide files (i.e., Aperio images), gross specimens and case studies to emphasize major principles and concepts and to demonstrate pathologic entities presented in lectures.

Student Learning Outcomes

After successful completion of this course, students will be able to:

1. Describe and differentiate fundamental pathologic processes.
2. Evaluate molecular and cellular pathogenetic mechanisms responsible for fundamental pathologic processes.
3. Analyze and interpret gross (macroscopic) and microscopic changes in tissues that characterize and are diagnostic for fundamental pathologic processes and specific diseases.

4. Explain the underlying pathophysiologic changes that result from pathologic processes, and how clinical signs develop as a result of those pathologic processes.

Course Schedule

This weekly schedule contains topics, assignments, and exams. Please refer to Canvas for updates and announcements to any changes to this schedule.

Lectures will be held in the New Auditorium and labs on Zoom unless otherwise specified.

<i>Date and Time</i>	<i>Topic/Module/Unit</i>	<i>Faculty</i>	<i>SLO # Above</i>	<i>Contact Hours</i>
01-04-2021 at 10:30- 11:20am	Lecture 1—Urinary	Farina	1-5	1.0
01-04-2021 at 11:30am- 12:20pm	Lecture 2—Urinary	Farina	1-5	1.0
01-06-2021 at 1:00- 2:50pm and 3:00-4:50pm	Lab 1—Urinary	Farina	1-5	1.0
01-07-2021 at 10:30- 11:20am	Lecture 3—Neuro	Farina	1-5	1.0
01-07-2021 at 11:30am- 12:20pm	Lecture 4—Neuro	Farina	1-5	1.0
01-11-2021 at 11:30am- 12:20pm	Lecture 5—Neuro	Farina	1-5	1.0
01-11-2021 at 1:00- 1:50pm	Lecture 6—Eye/ear	S. Craft	1-5	1.0
01-13-2021 at 1:00- 2:50pm and 3:00-4:50pm	Lab 2—Neuro	Farina	1-5	1.0
01-14-2021 at 1:00- 1:50pm	Lecture 7—Eye/ear	S. Craft	1-5	1.0
01-19-2021 at 1:00- 1:50pm	Lecture 8—Endocrine	S. Craft	1-5	1.0
01-20-2021 at 11:30am- 12:20pm	Lecture 9—Endocrine	S. Craft	1-5	1.0

<i>Date and Time</i>	<i>Topic/Module/Unit</i>	<i>Faculty</i>	<i>SLO # Above</i>	<i>Contact Hours</i>
01-20-2021 at 1:00- 1:50pm	Lecture 10—Endocrine	S. Craft	1-5	1.0
01-20-2021 at 2:00- 3:50pm	Lab 3—Eye/ear/endocrine	S. Craft	1-5	1.0
01-21-2021 at 1:00- 1:50pm	Lecture 11—Cardio	S. Craft	1-5	1.0
01-25-2021 at 11:30am- 12:20pm	Lecture 12—Cardio	S. Craft	1-5	1.0
01-25-2021 at 1:00- 1:50pm	Lecture 13—Cardio	S. Craft	1-5	1.0
01-26-2021 at 1:00- 1:50pm	Lecture 14—Cardio	S. Craft	1-5	1.0
01-27-2021 at 1:00- 1:50pm	Lecture 15—Cardio	S. Craft	1-5	1.0
01-27-2021 at 2:00- 3:50pm	Lab 4—Cardio	S. Craft	1-5	1.0
02-01-2021 at 1:00- 1:50pm	Review 1— Urinary/Neuro/Eye/Ear/Endocrine/Cardio	Farina/S. Craft	1-5	0.0
02-03-2021 at 8:30- 10:30am	Exam 1— Urinary/Neuro/Eye/Ear/Endocrine/Cardio	Farina/S. Craft	1-5	0.0
02-08-2021 at 1:00- 1:50pm	Lecture 16— Bone/Muscle	Hawkins	1-5	1.0
02-09-2021 at 1:00- 1:50pm	Lecture 17— Bone/Muscle	Hawkins	1-5	1.0
02-10-2021 at 11:30am- 12:20pm	Lecture 18— Bone/Muscle	Hawkins	1-5	1.0
02-10-2020 at 1:00- 2:50pm	Lab 5— Bone/Muscle	Hawkins	1-5	1.0

<i>Date and Time</i>	<i>Topic/Module/Unit</i>	<i>Faculty</i>	<i>SLO # Above</i>	<i>Contact Hours</i>
02-11-2021 at 1:00- 1:50pm	Lecture 19—Lymphoid	Iredale	1-5	1.0
02-15-2021 at 11:30am- 12:20pm	Lecture 20—Lymphoid	Iredale	1-5	1.0
02-17-2021 at 1:00- 2:50pm and 3:00-4:50pm	Lab 6—Lymphoid	Iredale	1-5	1.0
02-22-2021 at 11:30am- 12:20pm	Lecture 21—Alimentary	W. Craft	1-5	1.0
02-23-2021 at 11:30am- 12:20pm	Lecture 22—Alimentary	W. Craft	1-5	1.0
02-24-2021 at 11:30am- 12:20pm	Lecture 23—Alimentary	W. Craft	1-5	1.0
02-24-2021 at 1:00- 2:50pm and 3:00-4:50pm	Lab 7—Alimentary	W. Craft	1-5	1.0
03-01-2021 at 11:30am- 12:20pm	Lecture 24—Liver/Pancreas	W. Craft	1-5	1.0
03-02-2021 at 11:30am- 12:20pm	Lecture 25—Liver/Pancreas	W. Craft	1-5	1.0
03-03-2021 at 11:30am- 12:20pm	Lecture 26—Liver/Pancreas	W. Craft	1-5	1.0
03-03-2021 at 1:00- 2:50pm and 3:00-4:50pm	Lab 8—Liver/Pancreas	W. Craft	1-5	1.0
03-04-2021 at 11:30am- 12:20pm	Review 2— Liver/Pancreas/Bone/Muscle/Aliment/Respiratory	W. Craft/ Iredale /Hawkins	1-5	0.0
03-08-2021 at 8:00- 10:00am	Exam 2— Liver/Pancreas/Bone/Muscle/Aliment/Respiratory	W. Craft/ Iredale/ Hawkins	1-5	0.0
03-22-2021 at 11:30am- 12:20pm	Lecture 27—Derm	W. Craft	1-5	1.0

<i>Date and Time</i>	<i>Topic/Module/Unit</i>	<i>Faculty</i>	<i>SLO # Above</i>	<i>Contact Hours</i>
03-23-2021 at 11:30am- 12:20pm	Lecture 28—Derm	W. Craft	1-5	1.0
03-24-2021 at 11:30am- 12:20pm	Lecture 29—Derm	W. Craft	1-5	1.0
03-25-2021 at 11:30am- 12:20pm	Lecture 30—Derm	W. Craft	1-5	1.0
03-26-2021 at 1:00- 1:50pm	Lecture 31—Derm	W. Craft	1-5	1.0
03-29-2021 at 11:30am- 12:20pm	Lecture 32—Respiratory	Hawkins	1-5	1.0
03-30-2021 at 11:30am- 12:20pm	Lecture 33— Respiratory	Hawkins	1-5	1.0
03-31-2021 at 11:30am- 12:20pm	Lecture 34— Respiratory	Hawkins	1-5	1.0
03-31-2021 at 1:00- 2:50pm	Lab 9— Respiratory	Hawkins	1-5	1.0
04-05-2021 at 11:30am- 12:20pm	Lecture 35—Repro	Roberts	1-5	1.0
04-06-2021 at 11:30am- 12:20pm	Lecture 36—Repro	Roberts	1-5	1.0
04-07-2021 at 11:30am- 12:20pm	Lecture 37—Repro	Roberts	1-5	1.0
04-07-2021 at 1:00- 2:50pm and 3:00-4:50pm	Lab 10—Repro	Roberts	1-5	1.0
04-08-2021 at 11:30am- 12:20pm	Review 3—Derm/Respiratory/Repro	W. Craft/Hawkins/ Roberts	1-5	0.0
04-12-2021 at 8:30- 10:30am	Exam 3—Derm/Respiratory/Repro	W. Craft/Hawkins/ Roberts	1-5	0.0
		Total		47.0

Required Textbooks and/or Course Materials

Internet Course Resources:

Canvas: <http://elearning.ufl.edu/>

Recommended Textbooks and/or Course Materials

Reference textbooks (on reserve in the Education Center):

1. Zachary, JF: Pathologic Basis of Veterinary Disease, 6th ed. Elsevier, 2017.
2. Maxie, M, Jubb, V: Jubb, Kennedy, and Palmer's Pathology of Domestic Animals, 6th ed. Elsevier Saunders, 2016.

Methods of Evaluation

Grades will be calculated based on the following:

There will be 470 points total for the course (weighted 10 points per lecture/lab period).

The format of the teaching materials and evaluation procedures are at the discretion of the instructor for each course section. Examinations will be given in ExamSoft and may include interpretation of gross and microscopic changes. Evaluation of learning performance may include problem sets, quizzes and laboratory exercises, as well as three examinations. Missed laboratory assignments or quizzes will not be able to be made up without an excused absence through the Office for Academic and Student Affairs. Unannounced quizzes or assignments may be given in lectures and/or labs that cannot be made up at a later time.

Students should plan to take examinations on the scheduled dates unless prior approval has been obtained directly from the Office for Academic and Student Affairs.

Points for each course section (points on exam for a section may be decreased if a pathologist gives quizzes or other assignments for that section, but the point totals for each section will remain as listed below for each section):

Section I: 190 Points

- Exam on February 3
 - Urinary pathology (Farina): 30 points
 - Neuropathology (Farina): 40 points
 - Eye/ear and endocrine pathology (S. Craft): 60 points
 - Cardiovascular pathology (S. Craft): 60 points

Section II: 150 Points

- Exam on March 8
 - Liver/pancreas pathology (W. Craft): 40 points
 - Lymphoid pathology (Iredale): 30 points
 - Alimentary pathology (W. Craft): 40 points

- Bone/muscle pathology (Hawkins): 40 points
- Section III: 130 Points

- Exam on April 12
 - Dermatopathology (W. Craft): 50 points
 - Respiratory pathology (Hawkins): 40 points
 - Reproductive pathology (Roberts): 40 points

Note: Late assignments will not be accepted. Exams will be delivered via Canvas with proctoring through ExamSoft.

Grading Scheme

Course grades will be assigned based on the following grading scheme. This grading scale is **final**.

Letter	Scale
A	100.00 – 94.00
A-	93.99 – 90.00
B+	89.99 – 87.00
B	86.99 – 84.00
B-	83.99 – 80.00
C+	79.99 – 77.00
C	76.99 – 74.00
C-	73.99 – 70.00
D+	69.99 – 67.00
D	66.99 – 64.00
D-	63.99 – 61.00
E	60.99 – 0

Course Policies

This course will be delivered in-person in the New Auditorium to a group of students on a rotating basis. Faculty who are lecturing in the classroom will be required to wear a mask. The members of the class who are not physically present in the classroom will be attending the live synchronous lecture via Zoom. The group of students who attend physically each day will follow physical distancing and masking requirements. Eating or drinking while in the classroom during lecture is prohibited.

Additional guidelines for online learning and face-to-face learning are detailed below:

Online Learning Policies:

The College of Veterinary Medicine asks that students, when possible, have cameras turned on for courses in the professional curriculum, which facilitates participation and professional communication. Our class sessions may be audio visually recorded for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image.

Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

Face-to-Face Learning Policies:

In response to COVID-19, the following policies and requirements are in place to maintain your learning environment and to enhance the safety of our in-classroom interactions.

- You are required to wear approved face coverings at all times during class and within buildings. Following and enforcing these policies and requirements are all of our responsibility. Failure to do so will lead to a report to the Office of Student Conduct and Conflict Resolution.
- Sanitizing supplies are available in the classroom if you wish to wipe down your desks prior to sitting down and at the end of the class.
- Follow your instructor's guidance on how to enter and exit the classroom. Practice physical distancing to the extent possible when entering and exiting the classroom.
- If you are experiencing COVID-19 symptoms (<https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html>), please use the UF Health screening system (<https://coronavirus.ufhealth.org/screen-test-protect/covid-19-exposure-and-symptoms-who-do-i-call-if/>) and follow the instructions on whether you are able to attend class.
 - Course materials will be provided to you with an excused absence, and you will be given a reasonable amount of time to make up work (<https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>).

Curriculum Policies

DVM curriculum policies are consistently held and reinforced across all DVM courses. Please visit the DVM webpage and review the curriculum policies listed within the [Online Student Handbook](#).

Students with Accommodations

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the Disability Resource Center by visiting www.disability.ufl.edu/students/get-started. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester. **Students in UF Health Sciences programs should be mindful that unique course accommodations may not be applicable in a clinical, fieldwork or practicum setting. Thus, planning a semester in advance with the DRC Health Sciences Learning Specialist, Lisa Diekow ldiekow@ufsa.ufl.edu , is highly encouraged.**

The DRC is located on the main UF campus. ASA (Office for Academic and Student Affairs) works closely with the DRC to ensure student accommodations are met in the classroom and during exams. Melissa Cox in ASA assists in coordinating exams and meeting recommended disability-related requirements for students with accommodations (melissacox@ufl.edu).

Course and Instructor Evaluation

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available on the [GatorEvals Webpage](#). Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via the [Online Platform](#). Summaries of course evaluation results are available to students at the [GatorEvals Public Results Webpage](#).

Appendix A: Faculty Lecturers

Faculty Name: Dr. Serena Craft

Email: crafts@ufl.edu

Faculty Name: Dr. William Craft

Email: craftw@ufl.edu

Faculty Name: Dr. Ian Hawkins

Email: iankhawkins@ufl.edu

Faculty Name: Dr. Lisa Farina

Email: farinal@ufl.edu

Faculty Name: Dr. Marley Iredale

Email: marley.iredale@ufl.edu

Faculty Name: Dr. John Roberts

Email: john.roberts1@ufl.edu