

**College of Veterinary Medicine  
University of Florida  
Course Syllabus**

**Name of Course:** Developmental and Acquired Small Animal Orthopedic Diseases

**Course Number:** VME 6720C

**Catalog Description of Course:**

- This course will be an intensive review of various developmental and acquired orthopedic diseases affecting dogs and cats. Lectures will focus on the pathophysiology, diagnosis, specific treatments, and prognosis for each of the discussed conditions. Descriptions of required and recommended approaches, instrumentation as well as procedural steps for the appropriate surgical management of applicable abnormalities will be detailed. These procedures will be practiced in the laboratory setting on cadavers.

**Prerequisites, Co-requisites and Enforced Prerequisites**

- Baccalaureate degree or permission of the course coordinator, students in programs such as animal science, biology, or physiology; or enrollment in a graduate clinical or laboratory medicine or surgery program

**Maximum enrollment:** 15 students

**Number of term credits:** 1

**Duration and class times:** Lectures and laboratories will be scheduled one morning each week from 8:30-9:20 AM to accommodate clinical responsibilities of involved residents and faculty. The course will span the duration of the semester. See “topic outline of lectures and laboratories” below for detailed schedule

**Lecture room:** Veterinary Academic Building, Banfield B Room

**Instructors**

Daniel Lewis, DVM, Professor  
Department of Small Animal Clinical Sciences  
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Stanley Kim, BVSc, MS, Associate Professor Department  
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Erin Porter, DVM, Clinical Assistant Professor Department  
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**Course organizer/coordinator:**

Daniel D. Lewis, DVM, Diplomate ACVS  
Professor Small Animal Surgery  
Department of Small Animal Clinical Sciences  
LewisDa@ufl.edu  
352-258-6660

The best way to contact us is via email. If needed, we are happy set up a time for individual phone calls.

**Course Objectives**

This course is designed for graduate students whose interest and career objectives are to perform clinical and/or experimental surgery for the treatment of disease in companion animals such as dogs and cats.

- Students will be able to elaborate on the pathophysiology including histologic pathologic events associated with the development of the conditions which will be discussed in this course.
- Students will be able to describe the translational aspects of analogous conditions in humans as well as other animal species.
- Students will examine the clinical and radiographic (including advanced diagnostic imaging) abnormalities characteristic to each condition. The student should be able to propose further diagnostic tests or procedures that would be useful, if needed, to substantiate a definitive diagnosis.

- Students will be able to formulate a treatment protocol for animals affected with any of the conditions that will be covered in the course with an emphasis on specific treatment based on pertinent patient variables.
- Students will be able to compose appropriate treatments for the conditions discussed in the course.
- Students will be able to formulate appropriate surgical management when applicable, including traditional open surgical as well as arthroscopic and minimally invasive procedures.
- Students will be able to accurately prognosticate the short- and long-term outcome for an animal affected with each of the conditions discussed in this course. The student will also be able to discuss the ramifications of various treatment options on the prognosis for an individual patient.

**Topical outline of lectures:**

<i>Week</i>	<i>Topic</i>	<i>Instructor</i>
1	Osteochondrosis	Johnson
2	Osteochondrosis	Johnson
3	<b>Laboratory:</b> Open surgical management of osteochondrosis	Johnson/Lewis
4	Craniomandibular osteopathy, hypertrophic osteopathy & hypertrophic osteodystrophy	Lewis
5	<b>Laboratory:</b> Arthroscopy management of osteochondrosis	Kim/Johnson
6	Hip Dysplasia (pathogenesis & diagnosis)	Kim
7	Surgical management of hip dysplasia	Lewis
8	<b>Laboratory:</b> Surgical management of hip dysplasia	Johnson/Lewis
9	Total hip replacement	Kim
10	<b>Laboratory:</b> Total hip replacement	Kim/Lewis
11	Feline developmental & acquired orthopedic diseases	Porter

12	Nurtition & developmental orthopedics	Shmalberg
13	Panosteitis	Lewis
14	Legg-Perthes disease	Lewis
15	Final exam	Lewis

## Grading Scale

	<u>Percentage</u>
A	90 or above
A-	87-89
B+	84-86
B	80-83
B-	77-79
C+	74-76
C	70-73
C-	67-69
D+	64-66
D	60-63
D-	57-59
E	56 or below

For more information on grade points and UF grading policies, see:  
<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

## Assessment:

**Laboratory:** Four laboratories will be held in which each student will perform a series of tasks as described in the course notes. Each student will be required to complete a prelaboratory work sheet which will be graded and account for half of each laboratory grade. The students will also receive a grade based on their ability to successfully, as judged by assigned faculty, perform each of the laboratory exercise will determine the other half of the laboratory grade. The cumulative possible points for all four laboratories will account for 40% of the total course grade.

**Exam:** One final exam will be administered during the semester. The exam is worth 60% of the students' grade and each lecture hour will generate test questions weighted equally. Specific details regarding the exams and proctoring will be given closer to the exam dates. The exam will be 50 minutes in length. The cumulative final examination will cover clinically pertinent, evidence-based material from lectures and laboratories. The format will be two multiple choice questions per each of the 10 lectures and 4 laboratory sessions for a total of 28 questions. Each question will be worth 2 points for a total of 58 points. In addition, there will be 5 written practical questions based on projected images which will be worth 10 points per question.

Following the close of the exam window, you have 10 calendar days to contest your exam grade in an email to the course coordinator. Please note that you can ask a question about or discuss any exam question at any time during the semester for the purposes of understanding and education.

### Assessment Breakdown

Exam	60%
Laboratory participation	40%
Total	100%

**Make-up and attendance policy:** Please contact Dr. Lewis directly regarding any serious illnesses, family emergencies, or prolonged absences that result in missed work. Any absences will require written verification. If an exam in this course conflicts with an exam time for another course, contact Dr. Lewis as early in the semester as possible to coordinate an alternate exam time. Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

**Textbook:** The recommended textbooks for this course are:

- Veterinary Surgery: Small Animal, 2<sup>nd</sup> ed, by Johnson and Tobias
- Textbook of Small Animal Orthopedics, by Newtown and Nunamaker
- Additional readings of individual peer reviewed articles will be made available by each instructor for each lecture

**Course structure:** The course is structured into 16 Weeks – with either an hour of lecture or a laboratory session scheduled each week of the semester.

**Office hours:** Office hours are available by email appointment with Dr. Lewis. To set up office hours, contact Dr. Lewis via email at [LewisDa@ufl.edu](mailto:LewisDa@ufl.edu)

**Disability Resource Center** <http://www.dso.ufl.edu/drc/>

Students in need of accommodations should directly contact the DRC to begin the approval and implementation process. The Disability Resource Center (DRC) is located on the main UF campus and is available for students who request accommodations. OSI on the CVM campus works closely with the DRC to ensure student accommodations are met as articulated by the DRC. The DRC is able to assist students in receiving accommodations such as extended time for exams, low distraction environment, test reader or scribe and note-taking services. Please contact the DRC for more information on their processes and requirements (352-392-8565).

### 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 at <https://gatorevals.aa.ufl.edu/students/>. 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 <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>

### **Honesty Policy**

UF students are bound by The Honor Pledge, which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: 'On my honor, I have neither given nor received unauthorized aid in doing this assignment.'" The Honor Code (<http://www.dso.ufl.edu/sccr/process/student-conducthonorcode/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor.

### **Counseling & Wellness**

Contact information for the Counseling and Wellness Center: <http://www.counseling.ufl.edu/cwc/Default.aspx>, 392-1575 Contact information for the University Police Department: 392-1111 or 9-1-1 for emergencies.

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact [umatter@ufl.edu](mailto:umatter@ufl.edu) so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-3921575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.