

Small Animal Orthopedic Minimally Invasive Surgery
VME 6714C

Class Periods: Every Thursday 8:00 am

Location: Banfield B Room; Resident Training Lab

Academic Term: Spring 2023

Catalog Description of Course:

- This course will serve as an introduction to the current state of arthroscopy and minimally invasive fracture repair in small animal surgery. Lectures will focus on specific procedures and associated case selection considerations. Descriptions of required and recommended instrumentation as well as procedural steps will be presented and basic techniques will be practiced in the laboratory setting on trainers and cadavers.

Prerequisites, Co-requisites and Enforced Prerequisites

- Baccalaureate degree or permission of an academic advisor of a student in a premedical Baccalaureate program such as animal science, biology, or physiology; or enrollment in a graduate clinical or laboratory medicine/surgery program

Maximum enrollment: 15 students

Number of term credits: 1

Weeks duration: Full time, every Thursday, 6th period (8:00 – 8:50 am)

Lecture room: Veterinary Academic Building, Banfield B Room

Instructors

Dr. Stanley Kim, BVSc, MS, Associate Professor
Department of Small Animal Clinical Sciences
stankim@ufl.edu
352-392-2235

Dr. Daniel Lewis, DVM, Professor
Department of Small Animal Clinical Sciences
Lewisda@ufl.edu
352-392-2235

Dr. Matthew Johnson, DVM, MVSc, Clinical Associate Professor
Department of Small Animal Clinical Sciences
mdjohnson@ufl.edu
352-392-2235

Course organizer/coordinator:

Dr. Stanley Kim, BVSc, MS
Associate Professor, Small Animal Surgery
Department of Small Animal Clinical Sciences
stankim@ufl.edu
352-392-2235

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 and professional 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 expected to understand the rationale for minimally invasive orthopedic surgery in dogs and cats
- Students will become familiar with instrumentation required for arthroscopy and minimally invasive fracture repair in dogs and cats
- Students will be able to describe the case selection considerations for a wide variety of arthroscopic and minimally invasive fracture repair procedures in dogs and cats
- Students will be able to describe the major steps required to perform most arthroscopic and minimally invasive fracture repair procedures in dogs and cats
- Students will be able to perform exploratory arthroscopy of the elbow, shoulder and stifle of dogs
- Students will be able to apply a bone plate to the radius and tibia of a dog in a minimally invasive fashion.

Recommended Materials:

The recommended textbooks for this course are:

Veterinary Surgery: Small Animal, by Tobias and Johnson

Small Animal Arthroscopy, by Beale, Hulse, Schulz, Whitney

Minimally Invasive Fracture Repair, Veterinary Clinics: Small Animal Practice, Volume 42-5, by Beale and Pozzi

Topical outline of lectures:

<i>Week</i>	<i>Date</i>	<i>Topic</i>	<i>Instructor</i>
-------------	-------------	--------------	-------------------

1	1/12/2023 Thursday 8:00 am	Introduction to arthroscopy: Features, Instrumentation, Set-up	Kim
2	1/19/23 Thursday 8:00 am	Fundamental skills of small animal arthroscopy	Kim
3	1/26/23 Thursday 8:00 am	Laboratory: Dry exercises	Kim/Johnson
4	2/2/23 Thursday 8:00 am	Elbow arthroscopy	Kim
5	2/9/23 Thursday 7:00 am	Laboratory: Elbow arthroscopy	Kim/Johnson
6	2/16/23 Thursday 8:00 am	Shoulder arthroscopy	Johnson
7	2/23/23 Thursday 7:00 am	Laboratory: Shoulder arthroscopy	Kim/Johnson
8	3/2/23 Thursday 8:00 am	Stifle arthroscopy	Kim
9	3/9/23 Thursday 7:00 am	Laboratory: Stifle Arthroscopy	Kim/Johnson
10	3/23/23 Thursday 8:00 am	MIO: Fracture biology and mechanics	Johnson
11	3/30/23 Thursday 8:00 am	MIO techniques overview – MIPO, MINO, Pinning	Lewis
12	4/6/23 Thursday 8:00 am	MIO: Femur and tibia	Kim
13	4/13/23 Thursday 8:00 am	MIO: Humerus and antebrachium	Lewis
14	4/20/23 Thursday 8:00 am	Other MIO techniques: arthrodesis, SI Luxation	Lewis
15	4/26/23 Wednesday 7:00 am	Laboratory: MIPO	Lewis/Johnson/Kim
16	4/30/23 Thursday 8:00 am	Final exam	Kim

Assessment

Laboratory: FIVE laboratories will be held in which each student will perform a series of tasks as described in the course notes. Completion of the laboratories will be worth 40% of the total course grade.

Exam: One final exam will be administered during the semester. The exam is worth 60% of your 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 10 lectures and 5 laboratories for a total of 30 questions. Each question will be worth 2 points for a total of 60 points.

Following the close of the exam window, you have 10 calendar days to contest your exam grade in an email to the instructor. 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. Kim directly regarding any serious illnesses, family emergencies, or prolonged absences that result in missed work. Any absences will require written verification. As a student, it is your choice to take all exams. If you choose to not take a quiz or exam because of another activity (work, social engagement, etc), then you will earn a zero for the grade. If an exam in this course conflicts with an exam time for another course, please contact Dr. Kim as early in the semester as possible to coordinate an alternate exam time.

<https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>

Course structure: The course is structured into 16 Weeks – averaging one hour each week of the semester.

Office hours: Office hours are available by email appointment with Dr. Kim. To set up office hours, contact Dr. Kim via email at stankim@ufl.edu

Grading Policy

The following is given as an example only.

<i>Percent</i>	<i>Grade</i>	<i>Grade Points</i>
90.0 - 100.0	A	4.00
87.0 - 89.9	A-	3.67
84.0 - 86.9	B+	3.33
81.0 - 83.9	B	3.00
78.0 - 80.9	B-	2.67
75.0 - 79.9	C+	2.33

Percent	Grade	Grade Points
72.0 – 74.9	C	2.00
69.0 - 71.9	C-	1.67
66.0 - 68.9	D+	1.33
63.0 - 65.9	D	1.00
60.0 - 62.9	D-	0.67
0 - 59.9	E	0.00

More information on UF grading policy may be found at:

[UF Graduate Catalog](#)
[Grades and Grading Policies](#)

Students Requiring Accommodations

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the [Disability Resource Center](#). 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.

Course 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. [Click here for guidance on how to give feedback in a professional and respectful manner](#). 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 ufl.bluera.com/ufl/. [Summaries of course evaluation results are available to students here](#).

University 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](#) 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 or TAs in this class.

Software Use

All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

Student Privacy

There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see the [Notification to Students of FERPA Rights](#).

Campus Resources:

Health and Wellness

U Matter, We Care:

If you or a friend is in distress, please contact umatter@ufl.edu or 352 392-1575 so that a team member can reach out to the student.

Counseling and Wellness Center: counseling.ufl.edu/cwc, and 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Sexual Assault Recovery Services (SARS)

Student Health Care Center, 392-1161.

University Police Department at 392-1111 (or 9-1-1 for emergencies), or police.ufl.edu.

Academic Resources

E-learning technical support, 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu.

Career Resource Center, Reitz Union, 392-1601. Career assistance and counseling.

Library Support, Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring.

Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers.

Student Complaints Campus

On-Line Students Complaints