

# VEM5208 Integrative Medicine

SEMESTER: FALL 2021

CREDIT HOURS: 1.0

GRADING SYSTEM: PASS-FAIL

PHASE: IV

## Course Coordinator

Name: Justin Shmalberg DVM DACVN DACVSMR CVA CVFT CVCH

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Office Hours: By appointment only. These will be held by Zoom or other electronic means.

## Course Description

The public's interest in integrative medicine (the combination of conventional medicine and complementary or alternative health practices) continues to increase and includes the diverse fields of acupuncture, rehabilitation, botanical medicine, and nutrition. The course provides an evidence-based approach to these modalities to better prepare future practitioners for client questions about the field. Relevant basic medical physiology will be reviewed in the context of each modality, and the evidence and controversies for different practices explored. Students should have a clear understanding of the current information and practices surrounding these techniques by the end of the short course.

## Student Learning Outcomes

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

1. Understand the foundational principles of integrative medicine and the common modalities
2. Describe the features of a rehabilitative exam and the specific modalities employed in treatment
3. Reinforce clinically-relevant anatomical and physiologic bases for integrative medicine treatments
4. Describe the controversies in veterinary acupuncture with respect to traditional system of diagnoses and neuroanatomic definitions
5. Develop a working familiarity with common botanical and nutraceutical supplements used by integrative medicine practitioners
6. Objectively analyze diets on a caloric basis
7. Describe some of the less-common diets and their advantages and disadvantages
8. Understand the principles of joint injection and orthobiologic agents
9. Describe the physiologic basis and treatment features of photobiomodulation and hyperbaric oxygen therapy
10. Describe the foundational principles of veterinary spinal manipulation therapy

## Course Schedule

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

Class meetings will be held in the Large Animal Auditorium unless otherwise specified.

<i>Date and Time</i>	<i>Topic/Module/Unit</i>	<i>Faculty</i>	<i>SLO # Above</i>	<i>Instructional Hours</i>
10-04-2021 3:00-3:50pm LAA	Introduction to Integrative Medicine	Shmalberg	1	1.0
10-04-2021 4:00-4:50pm LAA	Introduction to Rehabilitation	Shmalberg	1,2,3	1.0
10-05-2021 3:00-3:50pm LAA	Functional Anatomy in Integrative Medicine	Shmalberg	3	1.0
10-05-2021 4:00-4:50pm LAA	Get to the Point: Acupuncture Controversies and Safety and Efficacy of Chinese Herbs	Shmalberg	4,5	1.0
10-06-2021 3:00-3:50pm LAA	Integrative Nutrition: Part 1	Shmalberg	6,7	1.0
10-06-2021 4:00-4:50pm LAA	Integrative Nutrition: Part 2	Shmalberg	6,7	1.0
10-07-2021 3:00-3:50pm LAA	Photobiomodulation (laser) and Hyperbaric Oxygen Therapy	Shmalberg	9	1.0
10-07-2021 4:00-4:50pm LAA	Joint Injections and Platelet Therapies	Shmalberg	8	1.0
10-11-2021 3:00-3:50pm LAA	Nutraceuticals for Osteoarthritis	Miscioscia	5	1.0
10-11-2021 4:00-4:50pm LAA	Introduction to Veterinary Spinal Manipulation and Chiropractic Treatments	Repac	10	1.0
10-13-2021 3:00-3:50pm LAA	Assistive Devices	Repac	2,3	1.0
10-13-2021 4:00-4:50pm LAA	Integrative Management of Canine Myelopathies	Miscioscia	2,3	1.0
10-15-2021 3:00-3:50pm LAA	Integrative Management of Soft Tissue Injuries (Shockwave, Ultrasound, PEMF)	Miscioscia	2,3	1.0
10-15-2021 4:00-4:50pm LAA	CBD, Hemp, and Marijuana: A Mini-Review	Deabold	5	1.0
		Total		14.0

## Required Textbooks and/or Course Materials

None. Supplemental materials will be provided in Canvas at the discretion of the instructors.

## Recommended Textbooks and/or Course Materials

The following are reference texts which may be of value for those planning to pursue this modalities in clinical practice:

1. Xie H and Preast V. *Xie's Veterinary Acupuncture*. Ames, IA: Blackwell Publishing, 2007.
2. Schoen A. *Veterinary Acupuncture*. Mosby, 2001.
3. Bockstahler B, Levine D and Millis D. *Essential Facts of Physiotherapy in Dogs and Cats Rehabilitation and Pain Management*. Babenhausen, Germany: BE VetVerlag, 2004.
4. Millis D, Levine D and Taylor R. *Canine Rehabilitation and Physical Therapy*. St. Louis, MO: Elsevier, 2014.
5. Van Dyke JB, Zink MC. *Canine Sports Medicine and Rehabilitation*. Ames, IA: Wiley-Blackwell, 2013.

## Methods of Evaluation

Grades will be calculated based on the following:

Item	Weight
Final Assignment	100%
Total	100 %

Note: Late assignments will not be accepted.

### Final Assignment:

Each student is to prepare a one-page (without references), single spaced manuscript in 11-point Arial font with 1.5" side margins and 1" top and bottom margins. The manuscript must provide a review of the evidence for a certain modality or technique of the student's choice. It is expected that available resources will be consulted and referenced. Any provided references are to be given in the format of the Journal of the American Veterinary Medical Association. The assignment is to be submitted electronically via Canvas. Manuscripts not meeting the page and formatting requirements will be marked incomplete.

## Grading Scheme

Course grades will be assigned based on the following grading scheme.

70 - 100% = PASS

0 – 69% = FAIL

## Course Policies

Students must satisfactorily pass the final assignment to receive an overall passing grade for the course. Students who fail to turn in a satisfactory assignment on-time or who are not present for at least 15 of the 18 lectures will be awarded a failing grade. Excused absences will not count toward the total number of absences.

## 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](http://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](mailto: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 Pett in ASA assists in coordinating exams and meeting recommended disability-related requirements for students with accommodations ([melissacox@ufl.edu](mailto: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

Erin Miscioscia DVM DACVSMR CVA  
Clinical Assistant Professor of Integrative Medicine  
Email: [emiscioscia@ufl.edu](mailto:emiscioscia@ufl.edu)

Jennifer Repac DVM DACVSMR CVA CCRT CVCH  
Clinical Assistant Professor of Integrative Medicine  
Email: [jrepac@ufl.edu](mailto:jrepac@ufl.edu)

## Resident Instructors (will not be evaluated)

Kelly Deabold DVM  
Second-Year Resident in Integrative Medicine  
Email: [kdeabold@ufl.edu](mailto:kdeabold@ufl.edu)