



School of

Veterinary Medicine

Veterinary Teaching Hospital
225-578-9600

SYLLABUS: Integrative Medicine and Rehabilitation Clinical Rotation VMED 5463 Room 1606H

225-578-9047 integrativemed@lsu.edu

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COURSE MATERIALS:

Articles will be emailed to you prior to the rotation. It is your responsibility to read them before the rotation. You may want to consider printing Student Responsibilities and How to Write a Discharge to use as a reference during clinics.

Recommended/ Reference texts:

Xie, H and Preast V. *Traditional Chinese Veterinary Medicine - Fundamental Principles (2nd Ed)*. Reddick, FL: Chi Institute Press, 2012.

Xie, H and Preast V. *Xie's Veterinary Acupuncture*. Ames, IA: Blackwell Publishing, 2007.

Schoen, A. *Veterinary Acupuncture*. Mosby, 2001.

Bockstahler, B, Levine, D and Millis, D. *Essential Facts of Physiotherapy in Dogs and Cats Rehabilitation and Pain Management*. Babenhausen, Germany: BE VetVerlag, 2004.

Millis, D, Levine, D and Taylor R. *Canine Rehabilitation and Physical Therapy*. St. Louis, MO: Saunders, 2013.

COURSE DESCRIPTION:

This course is designed to provide introduction and in-depth insights into the specialty of integrative medicine and rehabilitation in veterinary medicine. The course emphasizes clinical application of complementary or integrative and rehabilitative therapies for cases expected in common veterinary practice.

Goal/Rationale of the Course

- Gain understanding of basic principles, mechanisms, applications, and potential adverse effects of acupuncture, herbal medicine, Tui-na, and dietary supplements using evidence-based medicine.
- Gain understanding of basic principles and clinical applications of Traditional Chinese Veterinary Medicine.
- Gain understanding of mechanisms, applications, and potential adverse effects of rehabilitation modalities such as LASER, therapeutic ultrasound, neuromuscular electrical nerve stimulation (NMES), transcutaneous electro-neural stimulation (TENS), pulse electronic magnetic field (PEMF), shockwave, physical exercises, and underwater treadmill therapy.
- Integrate rehabilitation, acupuncture, Tui-na, dietary supplements, and other integrative technologies/modalities with conventional medicine, especially for pain management and neurologic and musculoskeletal problems, and learn how to choose appropriate modalities.
- Review basic anatomy, and musculoskeletal and neurological parameters.
- Discuss research and scientific papers of therapies, dietary supplements and nutrition in integrative medicine

COURSE OBJECTIVES:

After this rotation, you should be able to	List keywords for each objective
1. Obtain, record, and relay a prioritized patient history in a succinct and properly detailed manner.	Medical history
2. Perform and record physical, orthopedic, neurologic, and rehabilitation clinical examinations and succinctly relay a prioritized list of findings.	Physical exam, orthopedic exam, neurologic exam, and rehabilitation exam
3. Localize and identify the anatomic site of neurologic & neuromuscular lesions based on a clinical exam and history.	Musculoskeletal and neurologic history and findings
4. Select and implement an appropriate integrated therapy plan with conventional medicine for neurologic and neuromuscular diseases.	Integrative therapy
5. Explain the mechanism and clinical application of acupuncture.	Acupuncture
6. Explain the philosophy and clinical application of Traditional Chinese Veterinary Medicine.	TCVM
7. Explain the mechanism and clinical application of LASER therapy.	Laser therapy
8. Explain the mechanism and clinical application of Therapeutic Ultrasound therapy.	Therapeutic ultrasounds
9. Explain the mechanism and clinical application of Neuromuscular Electrical Nerve Stimulation (NEMS) therapy.	Neuromuscular Electrical Nerve Stimulation (NEMS) therapy
10. Explain the mechanism and clinical application of Physical Exercises.	Physical exercises
11. Explain the mechanism and clinical application of Underwater Treadmill.	Underwater treadmill

12. Identify neurological diseases with a good, fair, poor, and grave prognosis.	Neurological disease
13. Identify the appropriate timeframe and clinical scenario for referral.	Summarize pertinent medical records findings, referral

COURSE POLICIES:

Equipment:

Practical and professional attire is required, which includes closed toed shoes: You may wear business casual (no jeans, no ball caps/ feedstore caps) or clean scrubs with a clean white lab coat and a name tag. Students should be prepared with basic supplies for examination, including stethoscope, watch/timer, bandage scissors, pen light, reflex hammer, and a small note pad or notebook. Students should consider having a second pair of clean scrubs at school.

Note: No food or drinks are allowed in the treatment rooms. This is a hospital policy. No personal items, except computers are allowed in treatment rooms. Please place all backpacks, purses, etc. in your locker.

Orientation & Tentative Scheduling:

Please read section “Assignment/Responsibility” below for the orientation time and room.

Mondays to Fridays: Orientation, Morning topic rounds, Integrative medicine and rehabilitation appointments, Afternoon case rounds.

Weekday mornings: All students should attend integrative medicine rounds at 8:30am at the integrative medicine room, unless otherwise specified.

Weekend: The service is closed on weekends; however, we occasionally have inpatients for treatment on Saturdays and/or Sundays from 9am-12pm

*Note: Responsibilities and duties may change dependent on the caseload.

Tentative Rounds: Introduction to TCVM, Herbal Medication, Food Therapy, Tui-na, Rehabilitation exercises and measurements, Orthopedic exams, Neurological exams, and Anatomy of acupuncture

Attendance / Lateness Policy:

Absences must be pre-approved by Dr. Hale. Special schedule requests should be made two weeks prior to the start of the rotation. Unexcused absences and tardiness will result in an incomplete grade and students will be required to repeat the rotation. Students may be required to make up any time missed during a rotation, no matter the cause.

ASSIGNMENTS/RESPONSIBILITIES:

Prior to Rotation:

Students will receive a welcome email from Dr. Hale a week prior to the rotation. Students will also find attachments of syllabus, student responsibilities, and articles (TCVM, acupuncture, rehabilitation, laser, ortho exam, and neuro exam). It is mandatory to read all attached files before the rotation. The student responsibilities paper has more detail about requirements and grading.

Beginning of Rotation:

Students will meet at **9:30 AM** in room **1606H** (integrative medicine room) for orientation on the first day of the rotation. Cases will start that afternoon.

Patient Care:

Students are responsible for performing and documenting the medical history and physical examination findings. They are also responsible for relaying that information to other team members and into the medical record.

Students are responsible for assisting in case management under the supervision of the attending veterinarian and technical staff. This includes walking patients, keeping the cage/run clean, daily treatments, providing animal restraint for procedures, performing and assisting with technical procedures and diagnostic sample collection, requesting and organizing diagnostic procedures and medical treatments.

Client Communication

The student will call the owner of an inpatient every night unless other arrangements have been made. Any pertinent information will be recorded on a telephone report form or added to the progress notes. The student will follow up on pending lab work by checking with the clinician and notifying the client of the results. The student will remind the client to schedule a reevaluation if appropriate as soon as possible, ideally before leaving the hospital with their pet. The student will call the owner of all new patients the day following treatment.

Medical Record Keeping:

The service has its own discharge templates for electronic medical record documentation. Students must read the “discharge writing guidelines” for writing case summaries for patient discharge. All discharges are to be sent to the clinician on the case by 8am of the following morning, unless otherwise instructed.

Students are responsible for performing and documenting the medical history, physical/TCVM/Rehabilitation examination findings, treatment plan, and other recommendations.

At the end of the rotation students must have completed all records in Cornerstone and cleared the daily planner. This will be part of the grade.

Copy Statement:

Some of the materials in the course are possibly copyrighted. They are intended for use only by students registered and enrolled in this course and only for instructional activities associated with and for the duration of the course. They may not be retained in another medium or disseminated further. They are provided in compliance with the provisions of the Teach Act (Section 110 (1) of the Copyright Act)

<http://www.copyright.gov/docs/regstat031301.html>

Natural Disasters (Hurricanes, etc)

Hurricane season officially runs June 1st – Nov 30th. The projected path of tropical storms/hurricanes are mapped by the National Hurricane Center: <http://www.nhc.noaa.gov/?atlc>. Please stay aware of impending storm systems. Staff and students of the VTHC are “essential personnel” during disasters that affect our community.

The clinic schedule and student responsibilities may change during such events. Students may be required to participate in VTH emergency response efforts depending on need and safety. Please check with Dr. Hale daily, beginning 72 hours prior to any storm landfall projected for Louisiana. If you are asked to report for duty during an emergency, your personal safety is the number one priority. Use common sense in your commute and alert Dr. Hale if you are unable to arrive safely.

GRADING/EVALUATION:

Clinical rotation students will be graded/evaluated on their clinical abilities and aptitude on utilizing their medical knowledge for cases that present to the hospital. The basis for this evaluation will be the student’s ability to discuss the case as presented, develop a problem list, and formulate a treatment plan based on TCVM and clinical examination findings. Additionally, the student will be evaluated on willingness to learn.

The standard SVM grading scale listed below will be used with grades rounded to the nearest percentage point.

GRADE	Veterinary Medicine Grading Scale (rounding range)
A+	97-100 (96.50-100)
A	93-96 (92.50-96.49)
A-	90-92 (89.50-92.49)
B+	87-89 (86.50-89.49)

B	83-86 (82.50-86.49)
B-	80-82 (79.50-82.49)
C+	77-79 (76.50-79.49)
C	73-76 (72.50-76.49)
C-	70-72 (69.50-72.49)
D+	67-69 (66.50-69.49)
D	63-66 (62.50-66.49)
D-	60-62 (59.50-62.49)
F	<60 (0-59.49)

Please review the statements supplied to you by the Associate Dean of Students. The “D-rule” is in effect for D+, D, and D-, while the C is the 2.0 needed for your loan (not a C-). In all instances, rounding of grades to the next whole integer will be limited to xx.50. Scores less than xx.50 will not be rounded to the next higher whole integer.

RESOURCES:

Acupuncture or Herbal Medicine Trainings:

- Chi Institute of Traditional Veterinary Medicine (www.tcvm.com)
- International Veterinary Acupuncture Society (IVAS) (www.ivas.org)

Rehabilitation Trainings:

- University of Tennessee Canine Rehabilitation Certificate Program (CCRP) (<https://www.utvetce.com/canine-rehab-ccrp>)
- Canine Rehabilitation Institute (CCRT) (<http://www.caninerehabinstitute.com>)

Integrative Veterinary Medicine Organizations:

- American Association of Traditional Veterinary Medicine (AATCVM) (www.aatcvm.org)
- American Academy of Veterinary Acupuncture (AAVA) (www.aava.com)
- World Association of Traditional Chinese Veterinary Medicine (WATCVM) (www.watcvm.org)
- American Holistic Veterinary Medical Association (AHVMA) (www.ahvma.org)

ATTENDANCE REQUIREMENT

All students in the Phase II curriculum may be allowed a maximum of six (6) excused absences (this may be days or portions thereof, depending on the desires of the block mentor and course coordinator) which require no form of remediation. Additional days, for the days of the examination only, will be allowed to take the North American Licensing Examination. Examples of excused absences that may be allowed are: job interviews, state board examinations, family emergencies, illness, and attendance of professional meetings. The block mentor shall have the final authority on granting an excused absence. Resolution of a dispute over excused absences shall be the duty of the Associate Dean for Student Affairs. Block mentors will be encouraged to allow any necessary excused absence, however insufficient student numbers on a block may preclude the approval of an excused absence. A maximum of one excused absence per half-block block will be allowed. If a student exceeds the number of excused absences allowed per half-block, then remediation may be required to pass the rotation (such as additional assignments or making up time lost). These missed days include boards and excused absences (i.e. travel to and from boards and the boards). All excused absences greater than the six days allowed may require remediation. A written notification to the Associate Dean for Student Affairs for approval will be required at least four weeks in advance in anticipation of any anticipated excused absence over 6, or as soon as possible after an unanticipated excused absence. The Course Coordinators will forward a copy of any excused absence to the VCS office for tabulation. A written confirmation of the absence may be required. A written excuse may be required. If a written excuse cannot be obtained, then the absence will be considered unexcused. Any unexcused absence will require remediation and/or possible failure of the block.

PHOTOGRAPHS AND VIDEO OF PATIENTS:

Photographs and video may be taken of patients for educational purposes (e.g., for use in abstracts, articles, and presentations). Any photographs and video for use by the media may not be taken without the express consent of

the patient's owner. Verbal consent by the animal's owner is an acceptable means of gaining permission to photograph/video the patient. If a member of the media is present in the hospital and wishes to take background footage of clinicians and students working with animal, no close-up shots are permitted such that the animal would be identified by its owner. All media requests must be directed to the LSU – School of Veterinary Medicine Public Relations Coordinator.

POSTINGS ON INTERNET/ SOCIAL NETWORKING SITES:

Posting, releasing, or otherwise disclosing photos, identifiable case descriptions, images, or records related to the educational, clinical, or research activities of the LSU - School of Veterinary Medicine, outside of the LSU - School of Veterinary Medicine via social networking sites (e.g. MySpace, Facebook, Twitter, etc.) or via other than standard professional means of query and/or dissemination of educational, clinical, or research information is prohibited.

This policy applies to all students, faculty, staff, clients, and visitors of the LSU - School of Veterinary Medicine and to all activities of the LSU - School of Veterinary Medicine, on or off campus, related to veterinary clinical services and teaching and research labs. Pictures of animals (whether owned by University or client), and client information are strictly forbidden from being published or posted on social networking sites such as "Facebook", "Twitter", and "Myspace"; and non-educational blogs, message boards, or internet websites; without the prior approval from an appropriate Supervisor, Department Head, Director of the LSU – School of Veterinary Medicine Veterinary Teaching Hospital, the Director of the Louisiana Animal Disease Diagnostic Laboratory, or the Director of Laboratory Animal Medicine. This policy is to promote the safety and privacy of students, faculty, staff, clients, and visitors. Failure to comply with this policy could result in damage to persons or property, may be a violation of legal, professional, and/or ethical obligations, and may result in disciplinary action by the LSU - School of Veterinary Medicine, up to and including dismissal.

LSU SCHOOL OF VETERINARY MEDICINE ACADEMIC MISCONDUCT POLICY:

The Office Student Affairs suggests:

The LSU Code of Student Conduct applies to the School of Veterinary Medicine within the Code is the Academic Misconduct Policy, which outlines the School of Veterinary Medicine expectations for the integrity of students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the LSU Code of Student Conduct Policy and for living up to their pledge **not** to violate the Code.

- I. It shall be a violation of this Code for a student to cheat.
- II. It shall be a violation of this Code for a student to knowingly circumvent any course requirement.
- III. It shall be a violation of this Code for a student to steal.
- IV. It shall be a violation of this Code for a student to purposely impair another student's educational opportunity.
- V. It shall be a violation to act in a manner which is detrimental to the moral and ethical standards of the veterinary medical profession.
- VI. It shall be a violation for a student to knowingly deceive another student, faculty member, or professional associate with the intent to gain advantage, academic or otherwise, for said student or for any other student.
- VII. It shall be a violation for any student to fail to report any infraction of the LSU Code of Student Conduct Policy to an appropriate representative.

LSU Code of Student Conduct can be found at: <http://saa.lsu.edu/code-student-conduct>

SEXUAL HARASSMENT POLICY

The University reaffirms and emphasizes its commitment to provide an educational and work environment free from sexual harassment and to provide a means to remedy sexual harassment that employees may have experienced. (PS-73 Sexual Harassment and PS-95 Sexual Harassment of Students)

The intent of this policy is to express the University's commitment and responsibility to protect its students from sexual harassment and from retaliation for participating in a sexual harassment complaint. It is not intended to infringe upon constitutionally guaranteed rights nor upon academic freedom. In considering allegations of sexual harassment, the University must be concerned with the rights of both the complainant and the accused.

All proven cases of sexual harassment shall result in appropriate disciplinary action. The severity of the

disciplinary action shall be consistent with the seriousness of the act of sexual harassment. Additionally, under appropriate circumstances, the University may take action to protect its students from sexual harassment by individuals who are not students of the University. If the alleged harasser is a student, the Dean of Students Office must be notified of the complaint.

Student Advocacy & Accountability, [Office of the Dean of Students, LSU Student Life & Enrollment](#), 340 LSU Student Union, Baton Rouge, LA 70803, Phone: (225) 578-4307, Fax: (225) 578-5637, dossaa@lsu.edu

GENERAL STATEMENT ON ACADEMIC INTEGRITY:

Louisiana State University adopted the Commitment to Community in 1995 to set forth guidelines for student behavior both inside and outside of the classroom. The Commitment to Community charges students to maintain high standards of academic and personal integrity. All students are expected to read and be familiar with the [LSU Code of Student Conduct](#) and [Commitment to Community](#), found online at www.lsu.edu/saa. It is your responsibility as a student at LSU to know and understand the academic standards for our community.

Students who are suspected of violating the Code of Conduct will be referred to the office of Student Advocacy & Accountability. For undergraduate students, a first academic violation could result in a zero grade on the assignment or failing the class and disciplinary probation until graduation. For a second academic violation, the result could be suspension from LSU. For graduate students, suspension is the appropriate outcome for the first offense.

PLAGIARISM AND CITATION METHOD:

As a student at LSU, it is your responsibility to refrain from plagiarizing the academic property of another and to utilize appropriate citation method for all coursework. In this class, it is recommended that you use **any standard citation method**. Ignorance of the citation method is not an excuse for academic misconduct. Remember there is a difference between paraphrasing and quoting and how to properly cite each respectively.

One tool available to assist you in correct citations is the “References” function in Microsoft Word. This program automatically formats the information you input according to the citation method you select for the document. This program also has the ability to generate a reference or works cited page for your document. The version of Microsoft Word with the “References” function is available in most University computer labs. A demonstration of how to use this tool is available online at www.lsu.edu/saa.

GROUP WORK AND UNAUTHORIZED ASSISTANCE:

All work must be completed without assistance unless the faculty member gives explicit permission for group or partner work. This is critical so that the professor can assess your performance on each assignment. If a group/partner project is assigned, the student may still have individual work to complete. Read the syllabus and assignment directions carefully. You might have a project with group work and a follow up report that is independently written. When in doubt, e-mail the faculty member or ask during a class session. Seeking clarification is your responsibility as a student. Assuming group/partner work is okay without permission constitutes a violation of the LSU Code of Student Conduct.

AMERICANS WITH DISABILITIES ACT:

Louisiana State University is committed to providing reasonable accommodations for all persons with disabilities. The syllabus is available in alternate formats upon request.

Students with disabilities: If you are seeking classroom accommodations under the Americans with Disabilities Act, you are required to register with Disability Services (DS). DS is located in 115 Johnston Hall. Phone is 225/578-5919. To receive academic accommodations for this class, please obtain the proper DS forms and meet with me at the beginning of the class. The Office of Student and Academic Affairs can help you if you have questions as well. <http://disability.lsu.edu/students>

SYLLABUS CHANGE POLICY:

Except for changes that substantially affect implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advanced notice.

SVM INSTITUTIONAL LEARNING GOALS/OBJECTIVES ALIGNED WITH COMPETENCIES:

SVM 9 +1 Clinical Competency Anchor Points			
Competency One: <i>Comprehensive patient diagnosis (problem solving skills), appropriate use of clinical laboratory testing, and record management</i>	VMED 5463 Course Objectives	Assessment Method	Teaching Method
1.1 History/Physical Examination	1,2	Oral patient Presentation	Patient Presentation - Learner
1.2 Patient Assessment/Clinical Thinking Skills	1,2,12	Oral patient Presentation	Patient Presentation - Learner
1.3 Knowledge Base/Basic Pathophysiology	1,2,12	Oral patient Presentation	Patient Presentation - Learner
1.4 Diagnostic Skills/Clinical Laboratory Assessment	1,2,3,12	Oral patient Presentation	Patient Presentation - Learner
1.5 Knowledge Base/Basic Pathophysiology	1,2,12	Oral patient Presentation	Patient Presentation - Learner
1.6 Medical Records	1,2	Oral patient Presentation	Patient Presentation - Learner
Competency Two: <i>Comprehensive treatment planning including patient referral when indicated</i>	VMED 5463 Course Objectives	Assessment Method	Teaching Method
2.1 Treatment planning	4,12	Oral patient Presentation	Patient Presentation - Learner
2.2 Understanding Therapeutic Modalities and Availability (<i>would include knowledge of referral services available</i>)	5,6,7,8,9,10,11	Oral patient Presentation	Patient Presentation - Learner
Competency Five: <i>Basic medicine skills, experience and case management</i>	VMED 5463 Course Objectives	Assessment Method	Teaching Method
5.1 Basic medical skills/ Case Management	3,5,6,7,8,9,10, 11,12,13	Oral patient Presentation	Patient Presentation - Learner
5.2 Medical experience gained through rotation	5,6,7,8,9,10,11,12,13	Oral patient Presentation	Patient Presentation - Learner
Competency Eight: <i>Client communications and ethical conduct</i>	VMED 5463 Course Objectives	Assessment Method	Teaching Method
8.1 Client Communication/Client Education/Discharge Summary	1	Oral patient Presentation	Patient Presentation - Learner