Long Island University
College of Veterinary Medicine
COURSE OUTLINE

COURSE NUMBER:	DVM-626
COURSE TITLE:	Veterinary Skills IV
COURSE COORDINATOR:	Dr. Sukolrat Boonyayatra
COURSE INSTRUCTORS:	Sukolrat Boonyayatra, DVM, PhD, James Robinson, DVM, Danielle Howard, DVM, Sarah Leavell, DVM, Vien O, DVM, Victoria Bove, DVM, Andrea Schliselberg, DVM, Caitlin Renna, DVM, Yasser Mahmoud, DVM, PhD, Laura Patterson, DVM, PhD, Megan Rosen, DVM, Nicole Gambino, LVT, Stephanie Leonardi, LVT, Kimberly Norcott, LVT, Sara Lopez, LVT, Marialouis Burgos, LVT, Briana Lenoci, LVT, Jerry Roberson, DVM PhD, ACVIM (LAIM)
YEAR:	Spring 2025
OFFICE LOCATION:	Roth 309A
TELEPHONE NUMBER:	516-299-3602
E-MAIL ADDRESS:	Sukolrat.Boonyayatra@liu.edu
OFFICE HOURS:	By appointment
COURSE CREDIT:	Credit hours: 2
CREDIT HOURS:	Laboratory: 6 hours per week
COURSE DURATION:	15 weeks

COURSE DESCRIPTION

This course engages students in the application and integration of knowledge acquired across the DVM program. Using deliberate practice and constant feedback the course involves development of manual dexterity, handling and restrain of common domestic animals, and improvement of communication skills. Students are also incorporated into the daily operation of partner institutions where they observe live animal procedures, progressively build professional competence, and participate in supervised case management and other activities routinely conducted in the practice of Veterinary Medicine.

PREREQUISITE: Enrollment in Semester 4 of the DVM program.

This Course Will Assist the Students in Meeting the Following Curricular Endpoints:

PCC1. Demonstrate knowledge and understanding of the central biological principles and mechanisms that underlie animal health and disease from the molecular and cellular level to organismal and population manifestations.

PCC2. Demonstrate understanding of normal structure, function, homeostasis, pathophysiology, mechanisms of health/disease, and the natural history and manifestations of important domestic and global animal diseases in a diverse society.

CC1c. Demonstrate ability to perform comprehensive patient diagnosis and utilize problem solving skills to select, utilize, interpret and synthesize relevant physical and laboratory diagnostic procedures including diagnostic imaging and diagnostic pathology.

CC3. Demonstrate ability to apply acquired knowledge in managing anesthesia, pain, and patient welfare.

CC4. Demonstrate ability in basic surgery skills and the evaluation of cases to provide case management.

CC5. Demonstrate proficient ability in basic medicine skills and the evaluation of cases to provide the adequate management.

CC6. Demonstrate proficient ability in emergency and intensive care case management.

CC8a. Demonstrate effective skills in client communications and ethical conduct as it relates to how to acquire information from clients (e.g. history) and about patients (e.g. medical records), to obtain, store and retrieve such information, and to communicate effectively with a diverse population of clients and colleagues.

CC8b. Demonstrate ethical conduct and understanding of professional ethics, influences of different cultures on the delivery of veterinary medical services to the public.

CC8c. Demonstrate knowledge, skills, values, attitudes, aptitude and behaviors necessary to address responsibly the health and well-being of animals in the context of the societal responsibilities of veterinarians and ever-changing societal expectations.

CC8d. Demonstrate basic knowledge of personal and small business management and awareness of the different career options in Veterinary Medicine.

CC9. Demonstrate solid knowledge of the role of research in furthering the practice of veterinary medicine.

COURSE-SPECIFIC LEARNING OBJECTIVES

Upon completion of the course, the student will be able to:

1. Demonstrate skills in obtaining values for hematocrit, total protein from blood samples, and other clinical pathology findings

2. Demonstrate proper technique of bovine rectal examination and other procedures performed on a cow
3. Describe a proper basic neurological exam in a small animal (dog or cat)
4. Create a SOAP medical records for live animal patients
5. Demonstrate knowledge of important ethical and legal considerations in veterinary medicine
6. Demonstrate effective communication skills in client communications
7. Describe and perform a proper procedure for equine dental floating and hoof testing
8. Describe and demonstrate skills for basic microbiological diagnosis
9. Demonstrate a complete physical examination on cats
10. Explain a surgical procedure of feline spay/neuter surgery
11. Summarize the facilities requirements for equine medical and surgical care
12. Demonstrate a proper intramuscular injection and/or intravenous injection and/or venipuncture on a horse
13. Recognize other health examination procedures performed on a horse

WEEKLY COURSE OUTLINE

Week	Topic
1	Introduction to neurological examination
2	Visiting Cornell Ruffian Equine Specialists
3	Hoof examination in horses
4	TNR observation
5	Ear and skin cytology techniques
6	Bovine physical and rectal examination and other procedures
7	Equine injections and other procedures
8	Veterinary licensure and legal responsibility
9	Advancing client understanding and compliance
10	Spring Break
11	Equine dental floating
12	Microbiology Labs: Bacteriology, Antimicrobial susceptibility testing, Mycology
13	Complete physical examination and writing SOAP for sick animals
14	Clinical pathology labs: HCT/TP and Urinalysis labs
15	Regulatory techniques in veterinary medicine

VETERINARY SKILLS ACTIVITIES:

By the end of the semester, students will have performed the activities listed below:

1. Live animal activities: restraint and handling, physical exam, and techniques including venipuncture, injection, and oral medication administration, and catheter placement in the following species:
    a. Feline (partner institutions and LIU initiatives)
    b. Canine (partner institutions and LIU initiatives)

    c. Equine (LIU teaching animals)
    d. Bovine (LIU CVM teaching animals)
2. Two observational visits at affiliate companion animal practice
3. Some students will accompany affiliate equine and/or production animal veterinarians on ambulatory visits for an additional session
4. Visit an equine hospital
5. Skills Labs:
    a. Clinical pathology labs: HCT/TP and urinalysis labs
    b. Ear and skin cytology techniques
    c. Introduction to neurological examination
    d. Equine dental floating
    e. Regulatory techniques in veterinary medicine
    f. Microbiology Labs: Bacteriology, Antimicrobial susceptibility testing, Mycology

CRITERIA FOR EVALUATION OF STUDENT PERFORMANCE

Assessments	Due Dates	Individual point value	Percentage of overall course grade
Assignments & Quizzes (13)	In-class activities and pre- and post-class assignments	P/F (13/13)	50%
Discussion Boards (3)	One week following corresponding observation assignment	P/F (2/2)	10%
Technical Skills Sign-offs (Lab/classroom (0), Live animal handling (6)	To be completed in class and by end of semester	P/F (5/6)	30%
Attendance & Professionalism	Following laboratory dress code, conduct, etc as outlined in syllabus	P/F (1/1)	10%
TOTAL		21/22	100%

Assignments & Quizzes (13):	**Due Date**
Veterinary licensure and legal responsibility	In-class activity
Advancing client understanding and compliance	In-class activity
Regulatory techniques in veterinary medicine	In-class activity
Ear and skin cytology techniques	In-class activity
Introduction to neurological examination	In-class activity
TNR observation	In-class activity
Clinical pathology lab 1	In-class activity

Clinical pathology lab 2	In-class activity
Microbiology lab 1	In-class activity
Microbiology lab 2	In-class activity
Microbiology lab 3	In-class activity
Equine dental floating	In-class activity
Visiting Cornell Ruffian Equine Specialists	In-class activity

Discussion boards (2):	**Due Date**
Two Clinical Observations	One week following activity

Technical skills sign-offs (6):	**Due Date**
<u>SOP sign-offs for attendance and practice of the skill - live animal handling (6)</u> • Patient PE and completing SOAP • Equine hoof examination • Equine injections and other procedures • Bovine rectal examination • Other procedures with cattle • TNR	To be signed off during the live animal teaching animal activity

This is a Pass/Fail course. Attendance is mandatory. Students will be evaluated with a combination of written assignments, participation in group activities, discussion board posts, and technical skills checklists. Students must attain a minimum of 97% of the points to pass the course.

A "pass" grade indicates full percent is awarded for that section whereas a "fail" means zero percent for that section is obtained. A pass in each section will be defined by the activities of that section.

REQUIRED READINGS:

1. Rockett, J., & Bosted, S. (2015). *Veterinary Clinical Procedures in Large Animal Practices*. Nelson Education.

BIBLIOGRAPHY (SUPPLEMENTAL READINGS)

2. Taylor, S. M. (2015). *Small Animal Clinical Techniques-E-Book*. Elsevier Health Sciences.

GRADING POLICY: Final grades and GPA are calculated as follows:

This is a Pass/Fail course. Attendance is mandatory. Students will be evaluated with a combination of written assignments, participation in group activities, discussion board posts, and technical skills checklists. Students must attain a minimum of 97% of the points to pass the course.

A "pass" grade indicates full percent is awarded for that section whereas a "fail" means zero percent for that section is obtained. A pass in each section will be defined by the activities of that section.

Any and all preciding faculty and/or staff members have the authority to ensure all students are adhering to policies listed in the syllabus.

Attendance at ALL vet skill activities and labs are mandatory. If there is an excused absence, the missed lab or activity must be made up, with the exception of a missed live animal handling session where making-up the activity may not be possible. If a live-animal handling session is missed due to excused absence and cannot be made up, the student's grade will not be affected.

REQUIRED READINGS:

3. Rockett, J., & Bosted, S. (2015). *Veterinary Clinical Procedures in Large Animal Practices*. Nelson Education.

BIBLIOGRAPHY (SUPPLEMENTAL READINGS)

4. Taylor, S. M. (2015). *Small Animal Clinical Techniques-E-Book*. Elsevier Health Sciences.

POLICIES AND PROCEDURES

GENERAL COURSE RESPONSIBILITEIS

Didactic/Lecture Grade: Dates of all examinations will be announced at the beginning of the semester. Progress and final exams are generally cumulative. Quizzes may be announced or unscheduled to ensure students are completing supplementary assignments during the semester.
Externship/Practical/Laboratory Grade: Tardiness, absences, leaving early without an excuse, disrupting the class, improper PPE (personal protective equipment), and a poor attitude will impact student grades.
Missed Examinations: It is the student's responsibility to take all exams and quizzes on the specified date. All excused absences must be approved by the Associate Dean for Academic Affairs. Students are expected to review the LIU CVM Student Handbook and Professional Catalog to be familiar with the requirements related to Absence from a Progress Examination or Final Examination.
Laboratory Dress:

GENERAL: Appropriate laboratory attire is required for student participation in each laboratory. Students should maintain a tidy and clean appearance suitable to represent the profession to the public. Closed toed shoes are required. Closed toed shoes are shoes that cover the entire foot up to the ankle and exclude backless shoes, clogs, clogs with holes on top (i.e crocs). Appropriate boots and protective clothing (e.g. lab coat) is also required in the anatomy, necropsy, and microbiology/parasitology laboratories. No student will be permitted to attend a laboratory session without this required attire as it presents a safety hazard.

SIMULATION LAB: Professional attire. This includes khaki pants, slacks, skirts below the knee, clean pants, dresses below the knee, blouses, short-sleeved or long-sleeved dress shirts. This excludes tight or short shorts or skirts, T-shirts, crop-tops and sweatshirts.

CLINICAL SKILL LAB: Scrubs with closed-toed shoes. A full-length white coat over scrubs is encouraged but optional.

LIVE ANIMAL LAB:

Small Animal Species: Scrubs with rubber-based closed-toed shoes are required.
Large Animal Species: Coveralls and/or scrubs and work boots are required.

Conduct:

As veterinary students, you are representatives of our school and the veterinary profession. Professionalism, including respectful and considerate behavior towards others, including peers, members of the community, and animals in our care, are expected, in the classroom (lab and lecture) and during off-campus activities. Maintaining high standards of professional behavior includes, but is not limited to: attendance, appropriate communication, appropriate attire, animal respect, punctuality, cell phone usage, responsibility, and integrity.

Part of the laboratory grade will reflect the degree of professionalism displayed in the classroom and during off-campus activities. Actions such as inappropriate language, mistreating animals and fellow students, cheating, graffiti, wearing inappropriate attire, tardiness, and exorbitant cell phone usage will not be tolerated.

Any lapses in the above professionalism components will be considered a breach in professionalism. Students will receive an email warning for the first event. A second event will result in a meeting with the course director. Subsequent events will result in a meeting with the Associate Dean of Student Affairs and potential for probationary status.

Students should familiarize themselves with the LIU CVM Student Conduct policy in the LIU CVM Professional Catalog as well as Long Island University's Student Code of Conduct. Students should also be aware of reporting options through the CVM and the University.

College reporting: Students may report concerns to a Course Coordinator/faculty member, Department Head, Assistant Dean for Student Affairs, or Associate Dean for Academic Affairs.

University reporting:

1. Public Safety – Students can go to Public Safety and file a report. Please note that Public Safety is open and available 24/7 and all year. The number for Public Safety is (516) 299-2222.

2. Ethics Point – This is a confidential internet and telephone-based reporting tool for faculty, staff, and students. The following link will give you access to Ethics Point: EthicsPoint - Long Island University.
3. Student Affairs – Students can visit Student Affairs located in Hillwood Commons 100. They can make a report in person or send an email to StudentAffairs@liu.edu.

Attendance Policy: The University expects that each student will exercise personal responsibility with regard to class attendance. All students are strongly encouraged to attend every class session for each course for which they are registered. Tardiness of more than 15 minutes to a required laboratory session is considered an unexcused absence. Students are responsible for all that transpires in class, whether or not they are in attendance.

Attendance is mandatory for all students in laboratories, clinical skills courses, and experiential activities. Attendance in laboratories is required. Because of scheduling restrictions, students are not able to switch lab sections. Regrettably, most laboratories and all case discussions cannot be made up. Contact the Course Coordinator and Associate Dean for Academic Affairs to discuss attendance questions, such as requesting an excused absence.

Rabies Inoculations: In addition to providing proof of the mandatory immunizations for measles, mumps, and rubella (MMR) and meningitis, all incoming veterinary students must provide written proof of being currently inoculated for rabies. This is a program requirement. This requirement is made to benefit students' health and comply with the recommendations made by our accrediting agency, the American Veterinary Medical Association Council on Education. Proof of MMR and meningitis vaccination must be submitted on the Immunization Portal (https://webapps3.liu.edu/immunization/Login.aspx) prior to the beginning of the first semester of classes. Proof of Rabies vaccination or titers must be submitted to the College of Veterinary Medicine prior to the beginning of the first semester of classes.

Students with Disabilities: In compliance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, including changes made by the ADA Amendments Act of 2008, Course Coordinators will make accommodations for students with disabilities. Please contact the office of Disability Support Services in The Learning Center at 516-299-3057 or by emailing Post-learningcenter@liu.edu to take appropriate steps to develop an appropriate educational plan. After determining a plan with the student, the Learning Center will communicate any plans or accommodations directly with the Associate Dean for Academic Affairs and Assistant Dean for Student Affairs. Course Coordinators are provided these plans for students registered in their courses.

If you are a student with a documented disability, medical condition, or think you may have a disability, and will need accommodations, academic adjustments, auxiliary aids, or other services, please contact the Office of Disability Support Services by calling 516-299-3057 or emailing Post-learningcenter@liu.edu to request services, accommodations or for additional information. Additional information is also available on the DSS website: www.liu.edu/post/dss.

Tutoring: The LIU CVM is supported by the LIU Learning Center to provide tutoring in all first- and second-year courses. Tutoring information will be provided to CVM students at the beginning of each semester.

Academic Conduct Policy: The Academic Conduct Policy of LIU Post promotes an academic community characterized by respect, honesty, originality, and fairness. Academic misconduct such as plagiarism, cheating, fabrication, sabotage, or assisting someone in the committing of any of the acts, is a violation of this Policy. Students are expected to conduct themselves in accordance with the highest academic standards of honesty and integrity. The acts of, or the intent to engage in the acts of, cheating, plagiarism, illegitimate possession and/or disposition of examinations, and similar acts, are grounds for suspension or dismissal from the university. Information about this policy and resources to prevent to prevent violating it can be found in the LIU CVM Professional Catalog (Academic Conduct Policy and LIU CVM Honor Code) and LIU Academic Conduct Policy (https://liu.edu/content/policy/aa/AA-Student-Academic-Conduct-Policy.pdf).

Students are also required to familiarize themselves with all university policies as outlined in the student handbook and the university website. If you have questions about these policies, please ask your professor.

Photography/video recordings: Photography and/or video recordings of animals or procedures involving animals are allowed for personal or educational use only. Photographs and video recordings may not be shared in any public venue or social media site. Posting or sharing such media is considered unprofessional behavior.

Copyright and File Sharing Notice: Materials in this course, unless otherwise indicated, are protected by United States copyright law [Title 17, US Code]. These materials (including lecture capture) are presented in an educational context for personal use and study; they should not be shared, distributed or sold in print, or digitally, outside of the course without permission. This includes providing or uploading materials to commercial or external educational services such as CourseHero or Chegg. If a user fails to comply with Fair Use restrictions, they may be liable for copyright infringement.

As a student you may utilize, link, or post to copyrighted materials in the educational environment under US copyright law exemption. However, this use may not be shown, transmitted, or broadcast outside the institution and no copies may be distributed. Faculty and staff reserve the right to remove or disable student use of copyrighted materials if in their judgement it would involve violation of copyright law.

Email Communication: All email communication with course instructors, faculty, and staff must be carried out professionally. All students have an LIU email account for all course-related communication and will be held responsible for checking emails regularly. Email communications must be respectful and professional at all times, including formal introduction and correct spelling and grammar.

Writing support: The Writing Center provides free and friendly writing assistance to all students. They can work with you at any point in your writing process to help you understand an

assignment, develop and organize your ideas, cite your sources, and polish your writing. The center is open Monday through Thursday from 10 AM – 9 PM and Friday from 10 AM – 4 PM. To schedule an appointment, stop into the Writing Center (main floor of Library in the Learning Center), email us at Post-WC@liu.edu, or call us at 516-299-2732.
Webpage: https://liu.edu/student-success/learning-center/writing-center
Location: The Learning Center – Library Main Floor
Email: Post-WC@liu.edu
Phone: 516-299-2732

The Center for Healthy Living: The Center for Healthy Living provides mental health counseling, nutrition counseling, and health services to Long Island University students. Long Island University students have access to on-campus mental health counseling services, nutrition counseling, religious and spiritual counseling, and access to tele-heath and local in-person health care. The Center for Healthy Living has licensed mental health professionals, graduate student therapists, and nutritionists to provide consultation and support. Medical referrals are made in partnership with Northwell Health - GoHealth.
The Center for Healthy Living is a collaboration of on-campus resources and strong partnerships with local health organizations and professionals, including The Northwell Health Behavioral Health College Partnership, Northwell Health - Go Health, the LIU Post Psychological Services Center, and the LIU Post Nutrition Department.
Website: www.liu.edu/post/healthyliving
Location: Post Hall – South Entrance (parking lot side of building)
Email: Post-HealthyLiving@liu.edu
Phone: 516-299-3468

University Policies and Information:
LIU's Academic Affairs policies are located on the University website at:
https://liu.edu/about/LIU-policy/ policy-by-category-listing

LIU Academic Catalogs may be found at:
https://liu.edu/enrollment-services/registration/academic-catalogs

The LU Academic Calendar may be found at:
https://liu.edu/enrollment-services/registration/academic-calendar