<table>
<thead>
<tr>
<th><strong>Course Title</strong></th>
<th>Introduction to Veterinary Technology (Lab)</th>
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<tbody>
<tr>
<td><strong>Course #</strong></td>
<td>ANIMLSCI 105A</td>
</tr>
<tr>
<td><strong>Credit Hours</strong></td>
<td>1</td>
</tr>
<tr>
<td>This 1 credit class requires 2 hour per week of instructional time and 4 hours of student work per week outside of classroom time over a 15 week semester, for a total of 90 hours.</td>
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<tr>
<td><strong>Semester</strong></td>
<td>Fall</td>
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<tr>
<td><strong>Prerequisites</strong></td>
<td>Enrollment in Veterinary Technology Major, concurrent enrollment in ANIMLSCI 105 Lecture</td>
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**INSTRUCTOR INFORMATION**

<table>
<thead>
<tr>
<th><strong>Instructor</strong></th>
<th>Amy J. Rubin, DVM</th>
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<tbody>
<tr>
<td><strong>Office Location</strong></td>
<td>427 ZB, Integrated Sciences Building</td>
</tr>
<tr>
<td><strong>Office Hours</strong></td>
<td></td>
</tr>
<tr>
<td><strong>E-Mail Address</strong></td>
<td><a href="mailto:ajrubin@umass.edu">ajrubin@umass.edu</a></td>
</tr>
</tbody>
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**COURSE DESCRIPTION AND LEARNING OBJECTIVES**

<table>
<thead>
<tr>
<th><strong>Course Description</strong></th>
<th>Lecture and Laboratory introduce the role of the veterinary technician in the field of veterinary medicine. Laboratory will introduce physical examinations, patient restraint, basic nursing skills and animal handling.</th>
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</table>
| **Student Learning Objectives** | 1. Demonstrate effective and appropriate methods of restraint for various species.  
2. Understand the role of the veterinary technician in the exam setting including obtaining a thorough patient history, obtaining and recording objective patient data.  
3. Complete Environmental Health and Safety training and take certification quizzes to assess understanding of lab safety.  
4. Students will successfully complete specific AVMA Required Skills as listed in the Essential skills section of the syllabus and described in Appendix I of the AVMA Essential and Recommended Skills List. Students may also check their Salthouse account to see which essential tasks are required for this course.  

**Essential and Recommended skills:**  
Italics denotes hands-on (psychomotor) skills evaluated by the lab professor during lab sessions or lab practical using a lab answer key or a lab rubric and recorded on Salthouse.  
All other text denotes didactic (knowledge-based) skills incorporated into the learning objectives listed above. Each of these didactic skills is mapped back to one
of the specific learning objectives (LO) above noted by a number beside the skill.

1. **Management**

**Skill:** Participate in facility management utilizing traditional and electronic media and appropriate veterinary medical terminology and abbreviations.

**Task**
- *Create and maintain individual client records, vaccination certificates, and other appropriate forms:* (LO2)

2. **Nursing**

**Patient Assessment**

**Skill:** Demonstrate and perform assessment techniques in a variety of animal species.

**Tasks:**
- Recognize common domestic animal species and breeds.* (LO 2)
- Describe and use common animal identification methods.* (LO 2)
- Demonstrate effective and appropriate humane restraint techniques for various animal species (LO 5):
  - Properly Restrain dogs & Cats for procedures:
    - Lateral and sternal recumbency
    - Cephalic, saphenous and jugular venipuncture restraint
    - Encage and remove dogs and cats for procedures*
    - apply dog muzzle safely*
    - apply Elizabethan collar*
    - use restraint pole and other restraint aids*[GROUP]
- Demonstrate the ability to obtain objective patient data: (LO 2)
  - Temperature (dog & cat)*
  - Pulse (dog & cat)*
  - Respiration (dog & cat)*
  - Auscultate heart/lungs ( dog & cat)*
  - Assess hydration status
- Properly collect diagnostic specimens for analysis (ex: urine, blood, feces, specimens for cytology)* (LO2)
  - Perform venipuncture
    - Cephalic (dog, cat)*
    - Saphenous (dog, cat)*
    - Jugular (dog, cat)*
  - Collect urine sample:
    - Collect voided urine sample (dog or cat)*

**Decision-making abilities:** Given the characteristics of the patient, the veterinary technician will safely and efficiently obtain subjective and objective patient data that will allow accurate evaluation of the patient’s physical status with minimum stress and maximum safety.

**Patient Care**

**Skill:** Understand and demonstrate husbandry, nutrition, therapeutic and dentistry techniques appropriate to various animal species.
Tasks: Husbandry

- Grooming: Demonstrate understanding of therapeutic bathing, basic grooming and dipping of dogs or cats* (LO4)
  - Trim nails (dogs, cats)*
  - Express anal sacs*
  - Clean and Medicate ears (dog, cat)*

Decision-making abilities: Given the characteristics of the patient, the veterinary technician will implement appropriate husbandry techniques to enhance wellness and reduce risk of disease, injury and stress.

Tasks: Therapeutics

- Administer parenteral medications (LO4)
  - Subcutaneous (dog, cat)*
  - Intramuscular (dog, cat)*

- Administer enteral medications: (LO4)
  - Hand pilling (dog, cat)*
  - Administer topical medications (including eye meds)*
  - Administer enemas* [Group]
  - Collect skin scrapings*

- Fluid Therapy: (LO4)
  - Administer subcutaneous fluids*

Decision-making abilities: Given the directions of the veterinarian and the characteristics of the patient, the veterinary technician will carry out the appropriate techniques in order to achieve maximum health benefits for the patient.

Grading

<table>
<thead>
<tr>
<th>Evaluation method</th>
<th>Number</th>
<th>Percentage of final grade</th>
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<tbody>
<tr>
<td>Practical Exams</td>
<td>2</td>
<td>80%</td>
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<tr>
<td>Homework Assignments</td>
<td>10</td>
<td>10%</td>
</tr>
<tr>
<td>Laboratory assignments</td>
<td>10</td>
<td>10%</td>
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A minimum of C (73%) is required to progress in all Veterinary Technology courses. A grade of C or higher is required to continue on to other Veterinary Technology courses.

93%-100% = A
90%-92.99% = A-
87-89.99% = B+
83-86.99% = B
80-82.99% = B-
77-79.99% = C+
73-76.99% = C
70-72.99% = C-
67-69.99% = D+
63-66.99% = D
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
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<tr>
<td>Lab</td>
<td>Introduction to the Laboratory, Professional attire/comportment</td>
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<tr>
<td>1.</td>
<td>Environmental Health and Safety orientation, Medical records, reviewing patient records, animal identification, breeds.</td>
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<td>2.</td>
<td>Animal handling, behavior, restraint techniques.</td>
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<td>3.</td>
<td>Restraint techniques for the canine, History and Physical Exam canine</td>
</tr>
<tr>
<td>4.</td>
<td>Feline behavior, feline restraint, History and Physical Exam feline</td>
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<tr>
<td>5.</td>
<td>Lab practical #1 (cumulative)</td>
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<tr>
<td>6.</td>
<td>Grooming techniques: basic grooming, therapeutic baths, dips for the canine/feline</td>
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<td>7.</td>
<td>Nursing procedures: anal gland expression, nail trims, oral medications, otic evaluation and cleaning.</td>
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<td>8.</td>
<td>Ophthalmic examination, ocular meds, Schirmer tear tests, IOP</td>
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<td>10.</td>
<td>Bandaging</td>
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<tr>
<td>11.</td>
<td>Review</td>
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<tr>
<td>12.</td>
<td>Lab Practical #2 (cumulative)</td>
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**UMass Amherst Academic Regulations**

All undergraduate students are responsible for complying with the academic regulations at the following link: [https://www.umass.edu/registrar/students/policies-and-practices/academic-regulations](https://www.umass.edu/registrar/students/policies-and-practices/academic-regulations)

The UMass Amherst policy on class attendance is: “Students are expected to attend all regularly scheduled classes at the University for which they are registered. Students absent due to extenuating circumstances—including jury duty, military obligations, scheduled activities for other classes, the death of a family member, or verifiable health-related incapacity—remain responsible for meeting all class requirements and contacting the faculty member in a timely fashion about making up missed work. Faculty shall offer such students reasonable assistance in making up missed classes.”

**Accommodation**

The University of Massachusetts Amherst is committed to providing an equal educational opportunity for all students. If you have a documented physical, psychological, or learning disability on file with Disability Services (DS), you may be eligible for reasonable academic accommodations to help you succeed in this course. If you have a documented disability that requires an accommodation, please notify me within the first two weeks of the semester so that we may make appropriate arrangements.

**Academic Honesty**

Since the integrity of the academic enterprise of any institution of higher education requires honesty in scholarship and research, academic honesty is required of all students at the University of Massachusetts Amherst. Academic dishonesty is
prohibited in all programs of the University. Academic dishonesty includes but is not limited to: cheating, fabrication, plagiarism, and facilitating dishonesty. Appropriate sanctions may be imposed on any student who has committed an act of academic dishonesty. Instructors should take reasonable steps to address academic misconduct. Any person who has reason to believe that a student has committed academic dishonesty should bring such information to the attention of the appropriate course instructor as soon as possible. Instances of academic dishonesty not related to a specific course should be brought to the attention of the appropriate department Head or Chair. Since students are expected to be familiar with this policy and the commonly accepted standards of academic integrity, ignorance of such standards is not normally sufficient evidence of lack of intent.

**Ownership of course material**

Many of the materials created for this course are the intellectual property of the instructor. This includes, but is not limited to, the syllabus, lectures, problem sets, exams, study guides, and course notes. Except to the extent not protected by copyright law, any use, distribution or sale of such materials requires the written permission of the instructor. Please be aware that it is a violation of university policy to reproduce, for distribution or sale, course material including the syllabus, lectures, problem sets, exams, study guides, and course notes.

Students are not permitted to post, publish or sell course materials (such as powerpoints, review sheets, exam questions and lab handouts) in any form to any entity during and after completion of the course.

**Veterinary Technology Program Student Handbook**

All students are required to read and understand all policies in the student handbook. You will be required to acknowledge and sign that you have read the handbook and understand your responsibilities as a student within the Veterinary Technology Program.

**Lab Attire**

Students are required to wear UMass Vet Tech Scrubs during all laboratory sessions. Name tags will be ordered during the first week of class and should be worn during all Vet Tech labs and internship experiences. Additionally, a watch with a second hand and a stethoscope are required for all clinical labs. You may purchase a stethoscope at the campus store or at a nursing supply store before class begins. When purchasing a stethoscope look for single lumen stethoscopes, such as Littman Classic with dual head.

**Required Safety Training**

All ANIMLSCI 105 students are required to complete the following training sessions. • Biological Safety Training – conducted by the Office of Environmental Health and Safety • Animal User Training – conducted by UMass Research and Engagement These sessions will be conducted during classes in Sept. If you miss these sessions, you must attend another training session on your own time in Sept. and report the date of completion to Dr. Rubin.

**Health Risks**

Work with animals poses health risks, including development of allergic reactions, physical injury, and exposure to zoonotic diseases. To mitigate these risks, compliance with University and lab Biosecurity Protocols is required as well as appropriate attire.

**Rabies Vaccination**

The rabies vaccination is required for all students in the Veterinary Technology Program. If you are enrolled in student health insurance through UMass, your Rabies vaccination and rabies titers every 2 years are covered by student insurance. If you remain on your parent’s insurance, it is your responsibility to check whether this vaccine is covered by your insurance. The vaccination series includes 3 doses of the vaccine: days 0,7 and 21 or 28. It is your responsibility to complete the vaccination series before the midterm examination. You will not be allowed to participate in labs or internships without completion of your rabies vaccination series. Plan to start the vaccination series at the beginning of this course so that you are vaccinated before midterms. Make an appointment with University Health Services to schedule these appointments: https://www.umass.edu/uhs/contact, 413-577-5000. You will be
required to show proof of your Rabies vaccination or titer at the midterm practical examination.

The rabies vaccine is required of all students in the program. Students cannot work with random sourced mammals or participate in internships with mammals without disclosing this information to the sites. Students must provide documentation from a doctor if he/she is to receive a waiver for the rabies vaccine. In addition, the student must sign a letter acknowledging he/she understands the inherent risks if bitten by a rabid mammal.

**Attendance Policy**

Attendance in all lectures and laboratories are mandatory. Labs may travel to offsite locations, if you are late, you will miss the lab and receive a zero for the day. You must sign in on the attendance sheet to receive credit for attendance, students may not sign in for other students. Make-up lecture examinations or labs/lab practical exams will only be approved by the instructor prior to the absence.

It will not be possible to make up a laboratory or the lab practical unless the make-up is done during another lab session the same week. Prior approval by course instructor is required for lab makeup.

If permission for an emergency absence was not obtained before the absence, appropriate documentation in the form of a physician's letter must be presented within 1 week of the absence. For college-related absences, a letter or an email from the supporting faculty or staff member will be required prior to the absence.