



STATE UNIVERSITY COLLEGE OF TECHNOLOGY AT DELHI, NEW YORK 13753-1190
Veterinary Science Technology Department · Telephone: 607-746-4425 · Fax 607-746-4409

Dear Mentor:

Thank you for participating in our VETS 200 Veterinary Science Internship and Applied Supervisory Experience. Students enrolled in our Veterinary Science Technology program must complete a minimum of 120 hours of related work experience in an approved animal health facility prior to graduation. This may include a small and/or large animal veterinary practice, veterinary emergency clinic, research institute, pharmaceutical company, zoo, wildlife rehabilitation center or other faculty approved internship site.

The purpose of the internship is to expose students to a typical working environment, as well as to provide a positive experience, which will encourage them to enhance their skills and knowledge. The intern may observe and/or perform in any aspect of your daily work routine within the limits of the NYS law and regulations and in accordance with your facility's policies and available time.

It is important that you interview a potential student candidate prior to acceptance into your facility in order to determine their abilities and expectations. Please note that most students may have only completed the following coursework prior to this encounter: VETS115 Medical Math, VETS 120 Introduction to Veterinary Science, VETS 130 Introduction to Animal Care, VETS 140 Animal Anatomy & Physiology, VETS 160 Introduction to Research Animal Techniques, VETS 171 Parasitology and VETS 180 Clinical Physiology. Therefore, each student may have his/her own individual training and will vary in knowledge and skills.

Regular verbal and/or written communication with staff and clients as part of their review is encouraged. There is a final written student evaluation form required, which you will or should have received when the Externship Site Notification form is/was returned. Upon completion of the internship, please fill out the Student Evaluation form and mail it in the self-addressed envelope as soon as possible.

Questions regarding New York State law and the scope of practice for the profession should be addressed with Thomas Monahan, Executive Secretary to the NYS Board for Veterinary Medicine at 518-474-3817 Ext. 210 in Albany.

If I can be of any assistance, you may reach me at my office (607) 746-4407 or the Veterinary Science Department at 607-746-4425.

Thank you again for your time and support in this invaluable student experience and we hope that it will be rewarding for you and your fellow staff members.

Sincerely,

Amy N. Baeza, CVT, MS
Assistant Professor
Veterinary Science Technology

WHAT DO I NEED TO DO AS A SUPERVISOR/MENTOR?

- Review information packet given to you by the student.
- Interview the perspective student to determine their abilities and expectations.
- Fill out **Externship Site information** on the **Externship Notification Form** given to you by the student and return to course instructor. Once received, the course instructor will forward a **Student Evaluation Form**.
- Work with the student during the externship providing them with an educational experience. Allow the student the opportunity to observe and when appropriate participate in as many tasks and procedures as possible.
- Fill out the **Student Externship Task List** during externship.
- Upon completion of externship, fill out the **Student Evaluation Form** and return along with the **Student Externship Task List**, to the course instructor. Comments on the back of the Student Evaluation form are greatly appreciated.

**QUESTIONS PERSPECTIVE EXTERNSHIP SITE
SUPERVISORS COMMONLY ASK:**

1. How long is the externship?

The externship should include a minimum of 120 hours. The externship schedule should be developed based on the needs and availability of the facility and the student.

2. Should the student be paid?

This is entirely between you and the student. Most practices and firms do pay the students. Many feel that they are getting productive work from the student and/or helping to train a potential loyal employee. Also, by providing a "salary" of some type, many of the questions of liability may be eliminated in some states.

3. Are students covered by insurance?

Health Insurance: Each student is required by the college to have health insurance. They must either purchase it through the college or provide proof of coverage by another carrier. The student should provide you with information as to who their carrier is.

Workmen's Compensation: Employees are covered under the facilities Workmen's Compensation insurance policy. If the student is a paid employee, they would be covered under this policy. Some states allow volunteers to be included on a Workmen's Compensation policy. Check with your insurance carrier to have volunteers added.

Malpractice: The veterinarians malpractice insurance routinely covers employees. Some policies may cover volunteers. Check with your insurance carrier to have volunteers added.

If you have any questions pertaining to insurance coverage you should contact your insurance carrier, the State Workman's Compensation Board, the American Veterinary Medical Association, or an attorney.

4. If things are not working out can the externship be ended?

Yes! Since there is NO formal agreement, there is no requirement on anyone's part requiring the externship to continue if problems arise. If this unfortunate situation does occur, the site supervisor and the student are asked to contact us.

5. How are the Externships monitored?

You as the site supervisor are asked to evaluate each student on a form that will be provided, adding any additional comments, as you feel necessary. The student must maintain a daily activity/case diary which explains the "Who's, What's, Why's and How's" of their day's observations. Please let the student know if there is any information that should not be recorded or shared because of legal or proprietary reasons. The student is interviewed by the faculty upon returning to the college and completes a summary of their experience.

The student is also asked fill out a site evaluation form upon returning to school. With this information we can evaluate the students opinion of the site and if they felt they obtained a beneficial educational experience during their externship.

6. What are the responsibilities of the student?

The student is expected to be an observer and when possible, a productive participant. The site supervisor is the sole judge of when observation ends and participation begins. The student is expected to conduct her/himself in a professional manner, being punctual, courteous, and receptive to a learning experience. Although the student is there to learn as much as possible, they have been advised not to attempt performance tasks that are outside their expertise (without proper supervision and instruction), illegal or unethical. The student has also been advised to always consider safety of the patient, client, other staff and themselves in the accomplishment of any task.

You and your staff are asked to provide a professional "on the job" training situation so that the student may observe and when you deem appropriate, actively participate in the everyday activities of the facility. The student should be exposed to as many activities as possible so they may gain an overall insight into an everyday professional situation. Further, you and your staff are asked to assist the student in gaining information by answering questions, providing supervision, and instruction.

7. Are there any formal agreements or contracts?

There is no formal agreements or contract required between you, the student, or the college. It is purely a voluntary process on your part.

8. Where can I get additional information?

Contact Amy Baeza, CVT, MS, Assistant Professor of Veterinary Science Technology at (607) 746-4407, SUNY Delhi, 157 Farnsworth Hall, Delhi, NY 13753

SUNY Delhi

Veterinary Technology Programs

Academic Programs

Veterinary Science Technology A.A.S.

Veterinary Technology Management B.B.A. – see our web site for further information.

Web Site

<http://www.delhi.edu/academics/vetsci/>

Veterinary Science Technology – A.A.S.

Delhi's Veterinary Science Technology program, established in 1961, was the first of its type in the United States. Since its inception, it has developed into a dynamic, nationally recognized program. The program is fully accredited by the American Veterinary Medical Association (AVMA).

The program is designed to meet existing demands for technical personnel in the veterinary and biomedical fields. Extensive laboratory facilities, versatile faculty and staff, and hands-on experiences with companion, laboratory, farm, and other animals are major assets of the program. A required externship (work experience in a veterinary practice, animal research facility, or approved animal facility) also enhances each student's skills and employment potential.

Students will receive an A.A.S. degree upon successful completion of the curriculum and will be eligible to sit for the Veterinary Technician National Examination. The program is designed to be completed in two years, but the curriculum may be modified based on the academic preparedness or desires of the applicant.

The Profession

The Veterinary Science Technology program provides students with a broad theoretical background and excellent technical skills essential for careers as veterinary technicians and/or laboratory animal technicians.

Veterinary Technician

Licensed veterinary technicians (LVT) are employed by veterinarians in small, large, and mixed animal practices. The LVT's role is comparable to that of the registered nurse and other medical technicians in human medicine. Their professional duties may include, but are not limited to, surgical and medical nursing, laboratory testing, and radiographic procedures under the supervision of licensed veterinarians and LVT's. Graduates may also practice in veterinary and technical colleges, zoos, public health services, government, military service, private industry and other animal science-related fields. The program also provides opportunities to participate in continuing education for Veterinary Technicians.

Laboratory Animal Technician

Additional career opportunities are available to LVT's when employed by the pharmaceutical industry; medical, dental, and veterinary colleges; and diagnostic and testing laboratories. Under the direction of veterinarians or research scientists, these LVT's may have responsibility for animal health and husbandry, investigative procedures, pharmaceutical testing, administrative, and related duties. With additional professional experience, graduates who complete advanced laboratory animal courses are eligible to take the American Association for Laboratory Animal Science Certification examination. The program provides opportunities for continuing education for laboratory animal technicians.

Veterinary Science Technology: Clinical Option

Typical First Semester

Course No.	Course	Cr. Hrs.
BIOL 230	General Microbiology	4
MATH —	Mathematics by advisement	3-4
VETS 115	Medical Math for Veterinary Technicians	1
VETS 120	Introduction to Veterinary Science	3
VETS 140	Animal Anatomy and Physiology	4
	Total	15-16

Typical Second Semester

Course No.	Course	Cr. Hrs.
ENGL 100	Freshman Composition	3
CHEM 120	Introductory Chemistry I or	4
CHEM 180	General Chemistry I	
VETS 130	Introduction to Animal Care	2
VETS 160	Introductory Research Animal Technology	4
VETS 171	Parasitology	3
VETS 180	Clinical Physiology	2
	Total	18

Typical Third Semester

Course No.	Course	Cr. Hrs.
COMM100	Public Speaking	3
VETS 200	Internship/Supervisory Experience	1
VETS 238	Surgical Nursing and Anesthesia Lect	3
VETS 239	Surgical Nursing and Anesthesia Lab	1
VETS 245	Radiography	2
— —	Social Science/ Humanities Elective (by advisement)	3
	Total	16

Typical Fourth Semester

Course No.	Course	Cr. Hrs.
VETS 205	Clinical Laboratory Techniques (Lecture)	3
VETS 210	Clinical Laboratory Techniques (Lab)	2
VETS 230	Farm Animal Nursing	3
VETS 235	Farm Animal Nursing Laboratory	1
VETS 250	Veterinary Clinical Management	3
VETS 255	Veterinary Medical Nursing	3
	Total	15

Veterinary Science Technology: Laboratory Animal Option

Typical First Semester

Course No.	Course	Cr. Hrs.
BIOL 230	General Microbiology	4
MATH —	Mathematics by advisement	3-4
VETS 120	Introduction to Veterinary Science	3
VETS 115	Medical Math for Veterinary Technicians	1
VETS 140	Animal Anatomy and Physiology	4
	Total	15-16

Typical Second Semester

Course No.	Course	Cr. Hrs.
ENGL 100	Freshman Composition	3
CHEM 120	Introductory Chemistry I or	4
CHEM 180	General Chemistry I	
VETS 130	Introduction to Animal Care	2
VETS 160	Introductory Research Animal Technology	4
VETS 171	Parasitology	3
VETS 180	Clinical Physiology	2
	Total	18

Typical Third Semester

Course No.	Course	Cr. Hrs.
VETS 205	Clinical Laboratory Techniques (Lecture)	3
VETS 210	Clinical Laboratory Techniques (Laboratory)	2
VETS 220	Applied Research Animal Technology	4
VETS 230	Farm Animal Nursing (Lecture)	3
VETS 235	Farm Animal Nursing Laboratory	1
— —	Social Science Elective (by advisement)	3
COMM100	Public Speaking	3
	Total	19

Typical Fourth Semester

Course No.	Course	Cr. Hrs.
VETS 200	Internship/Supervisory Experience	1
VETS 238	Surgical Nursing and Anesthesia Lect	3
VETS 239	Surgical Nursing and Anesthesia Lab	1
VETS 245	Radiography	2
VETS 250	Veterinary Clinical Management	3
VETS 255	Veterinary Medical Nursing	3
VETS 280	Primateology	2
— —	Social Science/ Humanities Elective (by advisement)	3
	Total	18

Veterinary Science Technology: Business Concentration Option

Typical First Semester

Course No.	Course	Cr. Hrs.
BIOL 230	General Microbiology	4
MATH 115	Statistics	4
VETS 120	Introduction to Veterinary Science	3
VETS 115	Medical Math for Veterinary Technicians	1
VETS 140	Animal Anatomy and Physiology	<u>4</u>
Total		16

Typical Second Semester

Course No.	Course	Cr. Hrs.
ENGL 100	Freshman Composition	3
CHEM 120	Introductory Chemistry I or	4
CHEM 180	General Chemistry I	
VETS 130	Introduction to Animal Care	2
VETS 160	Introduction Research Animal Technology	4
VETS 171	Parasitology	3
VETS 180	Clinical Physiology	<u>2</u>
Total		18

Typical Third Semester

Course No.	Course	Cr. Hrs.
ACCT 110	Principles of Accounting I	3
ECON 100	Introductory Macroeconomics or	3
ECON 110	Introductory Microeconomics	
COMM100	Public Speaking	3
PSYC 100	Introductory Psychology	3
VETS 200	Internship/Supervisory Experience	1
VETS 238	Surgical Nursing/ Anesthesia Lect	3
VETS 239	Surgical Nursing/ Anesthesia Lab	1
VETS 245	Radiography	<u>2</u>
Total		19

Typical Fourth Semester

Course No.	Course	Cr. Hrs.
CITA 110	Microcomputer Applications I or	3
—————	Business Elective	
VETS 205	Clinical Laboratory Techniques (Lecture)	3
VETS 210	Clinical Laboratory Techniques (Lab)	2
VETS 230	Farm Animal Nursing	3
VETS 235	Farm Animal Nursing Laboratory	1
VETS 250	Veterinary Clinical Management	3
VETS 255	Veterinary Medical Nursing	<u>3</u>
Total		18

Veterinary Science Technology: Delhi/Transfer Option

Typical First Semester

Course No.	Course	Cr. Hrs.
CHEM 120	Introductory Chemistry I or	4
CHEM 180	General Chemistry I	
MATH —	Mathematics by advisement	3-4
VETS 120	Introduction to Veterinary Science	3
VETS 115	Medical Math for Veterinary Technicians	1
VETS 130	Introduction to Animal Care	2
VETS 140	Animal Anatomy and Physiology	4
	Total	17

Typical Second Semester

Course No.	Course	Cr. Hrs.
ENGL 100	Freshman Composition	3
BIOL 230	General Microbiology	4
CHEM 125	Introductory Chemistry II or	4
CHEM 180	General Chemistry II	
VETS 160	Introductory Research Animal Technology	4
VETS 171	Parasitology	3
VETS 180	Clinical Physiology	2
	Total	20

Typical Third Semester

Course No.	Course	Cr. Hrs.
BIOL 130	General Biology I or	4
BIOL 215	Zoology	
COMM100	Public Speaking	3
VETS 200	Internship/Supervisory Experience	1
VETS 238	Surgical Nursing and Anesthesia Lect	3
VETS 239	Surgical Nursing and Anesthesia Lab	1
VETS 245	Radiography	2
— —	Social Science Elective (by advisement)	3
	Total	17

Typical Fourth Semester

Course No.	Course	Cr. Hrs.
VETS 205	Clinical Laboratory Techniques (Lecture)	3
VETS 210	Clinical Laboratory Techniques Laboratory	2
VETS 230	Farm Animal Nursing	3
VETS 235	Farm Animal Nursing Laboratory	1
VETS 250	Veterinary Clinical Management	3
VETS 255	Veterinary Medical Nursing	3
— —	Social Science/ Humanities Elective (by advisement)	3
	Total	18

COURSE DESCRIPTIONS

VETS 115 MEDICAL MATHEMATICS FOR VETERINARY TECHNICIANS

This course is designed to present the broad spectrum of information commonly referred to as posology, which is defined as the study of dosage in the field of applied pharmacology. This broad spectrum ranges from basic mathematics, elementary algebra, measurements, drug orders, and dose calculations to other calculations. The goal of this course is that each student be confident and capable of calculating correct drug doses regardless of the physical form of the medication.

Prerequisite: Enrollment in the Veterinary Science program
(1: 1,0)

VETS 120 INTRODUCTION TO VETERINARY SCIENCE

Students are introduced to the terminology and basic scientific concepts necessary for subsequent courses in the Veterinary Science program. Topics include the behavior, biology, and use of certain animal species in veterinary and laboratory animal sciences; pharmacology; diseases in animals; sanitation and contamination control; and the role of the technician in various types of professional practices.

Prerequisite: None
(3: 3,0) Fall

VETS 130 INTRODUCTION TO ANIMAL CARE

This is a required basic course for all students in the Veterinary Science Technology program and is designed to give students “hands-on” experience prior to beginning the Veterinary Science Internship requirement (VETS 200). The laboratories emphasize the techniques and equipment which may be used for animal care and restraint and allow students to become comfortable handling various species. An introduction to veterinary nursing procedures which may be applied in a veterinary practice are also presented. Additional morning and afternoon hours are scheduled outside of class to provide required care of companion and farm animals housed at the College facilities. Lectures introduce students to faculty, staff, facilities, kennel and farm procedures, e-mail, library information systems, posology, nutrition, OSHA and radiation safety standards, study skills, and other topics as deemed necessary.

Prerequisite: Enrollment in the Veterinary Science program or permission of the instructor
(2: 1,3)

VETS 140 ANIMAL ANATOMY AND PHYSIOLOGY

This course provides students in the Veterinary Science Technology program with a basic knowledge of the structural and functional characteristics of the animal body. Instruction is provided through a lecture and laboratory systemic study of the gross and microscopic anatomy and physiology of domestic animals. Lectures and laboratory exercises emphasize an understanding of and appreciation for the organized body and the relationship of its various parts including cells, tissues, organs, and body systems. Microscopic examination of histological slides and use of computer software are employed for the study of tissues and organs. Examination of skeletons, models, prosected canine and feline cadavers, and other preserved specimens is used to study gross anatomical structures. Comparative aspects of other species, including an introduction to avian and reptilian anatomy and physiology, are included. Lecture and laboratory discussions begin the development of and require an understanding and use of anatomical and medical terminology. Lectures and laboratories include discussion and utilization of relevant clinical topics and materials. This course provides the basis and foundation upon which all of the subsequent technical courses are built.

Prerequisite: High school biology and chemistry and enrollment in the Veterinary Science program
(4: 3,3)

VETS 160 INTRODUCTORY RESEARCH ANIMAL TECHNOLOGY

The principles relating to the breeding and use of research animals are introduced. Humane care, ethics, and husbandry practices are also covered. Techniques involving clinical observation and bi methodology along with an introduction to asepsis and surgical technique are practiced in the laboratory.

Prerequisites: VETS115, VETS 120, VETS 130 (may also be taken concurrently), VETS 140, and enrollment in the Veterinary Science program or permission of the instructor

Corequisite: VETS 130 (if not taken as a prerequisite)

(4: 3,3) Spring

VETS 171 PARASITOLOGY

This lecture, recitation, and laboratory course introduces students to the study of parasitology. The course covers life cycles, pathogenesis, identification, and control of the common parasites of domestic animals.

Prerequisites: VETS 120 and VETS 140 or permission of the instructor.

(3: 2,3)

VETS 180 CLINICAL PHYSIOLOGY

This lecture course expands upon the basic principles of physiology presented in Animal Anatomy and Physiology (VETS 140) and acts as a bridge to subsequent courses. Selected clinical problems and diseases are presented to stimulate the student technician's understanding and application of physiological concepts.

Prerequisites: VETS 120, VETS 130 (may also be taken concurrently), and VETS 140 or permission of the instructor

Corequisite: VETS 130 (if not taken as a prerequisite)

(2: 2,0)

VETS 200 INTERNSHIP AND APPLIED SUPERVISORY EXPERIENCE

The internship portion of this course exposes students to the daily activities which may be encountered in a veterinary practice, animal research facility, or other allied animal health facility. A minimum of 120 hours of participation in a position relating to the veterinary technology field in a faculty-approved facility is required.

Required attendance at least 8 hours of Continuing Education and participation in "public service" activities are included to emphasize the importance of these events to maintain technical skills and promote the role of veterinary technicians in the veterinary medical field. These activities also encourage students to communicate in a professional setting with graduate technicians, potential employers, and the public.

The applied supervisory experience gives students practice acting in the role of a "supervisor," assisting students in the Introduction to Animal Care course with required care of the animals housed in the dog and cat wards of Farnsworth Hall and performing any required treatments prescribed by the attending veterinarian. Students evaluate the daily animal health, use records from the dog and cat wards, and transcribe pertinent clinical information to computerized files using a management software program.

Prerequisites: VETS 120, VETS 130, VETS 140, VETS 160, VETS 171, VETS 180, and 2nd-year status in the Veterinary Science program or permission of the instructor

(1: 0,3)

VETS 205 CLINICAL LABORATORY TECHNIQUES (LECTURE)

This course deals with the examination of blood, urine, feces, exudates, and cells for diagnostic and prognostic purposes in veterinary practice. Lectures cover the theories on which the tests are based and the relevance of laboratory results to the evaluation of animal health.

Prerequisites: VETS115, VETS 120, VETS 130, VETS 140, VETS 171, VETS 180, BIOL 230, and CHEM 120 or CHEM 180 or permission of the instructor

Corequisite: VETS 210 or permission of the instructor.

(3: 3,0)

VETS 210 CLINICAL LABORATORY TECHNIQUES (LABORATORY)

This course deals with the skills necessary to provide veterinarians and researchers with accurate information on clinical laboratory specimens. These specimens include blood, plasma, cells, urine, and feces.

Prerequisites: VETS115, VETS 120, VETS 130, VETS 140, VETS 171, VETS 180, BIOL 230, and CHEM 120 or CHEM 180 or permission of the instructor

Corequisite: VETS 205 or permission of the instructor.

(2: 0,4)

VETS 211 HUMANE SOCIETY—PREVENTATIVE MEDICINE AND NURSING SKILLS

This is an elective practical experience course providing an additional opportunity to develop skills in the areas of preventative medicine and nursing, including safety, restraint, specimen collection, and laboratory and nursing procedures. The course is offered in cooperation with the Humane Society of Central Delaware County. Students must provide their own transportation. Pre-exposure rabies vaccinations are highly recommended.

Prerequisites: Completion of VETS115, VETS 120, VETS 130, VETS 140, VETS 171, VETS 180 and VETS 210 with a grade of C+ or higher and/or permission of the instructor

(1: 0,3)

VETS 220 APPLIED RESEARCH ANIMAL TECHNOLOGY

This is an elective lecture/laboratory course in advanced research animal techniques. Gnotobiotic methods, SPF facility operations, quality control procedures, experimental design, personnel and colony management, practical application of experimental methodology, computerized data analysis, and technical document preparation are among the topics presented.

Prerequisites: VETS 160 with a grade of C+ or higher, VETS 180, VETS 205, and VETS 210 or permission of the instructor (latter two courses may be taken concurrently)

Corequisites: VETS 205 and VETS 210 (if not taken as prerequisites)

(4: 3,4) Fall

VETS 221 BREEDING COLONY MANAGEMENT

This course incorporates the concepts of genetics, breeding regimes, and husbandry covered in Introductory Research Animals Technology. Through a “hands-on” approach, students participate in a project to fill the needs of the Veterinary Science program for rats and guinea pigs. The class provides for students to learn the newest techniques in barrier husbandry, microchip identification, aseptic preparation of materials along with computerized records and tracking systems. Problem solving, forecasting needs, and planning for goals in raising and maintaining animals in the Specific Pathogen-Free Hygienic State are practiced.

Prerequisites: VETS 160 and permission of the instructor

(4: 3,3) Spring

VETS 230 FARM ANIMAL NURSING

This lecture course familiarizes students with the practical aspects of veterinary nursing as they apply to farm animal species.

Prerequisites: VETS115, VETS 120, VETS 130, VETS 140, VETS 171, VETS 180, and BIOL 230 or permission of the instructor.

Corequisite: VETS 235 or permission of the instructor
(3: 3,0)

VETS 235 FARM ANIMAL NURSING LABORATORY

This course familiarizes students with proper handling and medication of farm animal species.

Prerequisites: VETS115, VETS 120, VETS 130, VETS 140, VETS 171, VETS 180, and BIOL 230 or permission of the instructor

Corequisite: VETS 230 or permission of the instructor.
(1: 0,3)

VETS 238 & 239 SURGICAL NURSING AND ANESTHESIA

This lecture and laboratory course presents anesthetic agents and monitoring, fluid therapy, aseptic technique, surgical assisting, and care of the surgical patient. The dog and cat are utilized in the laboratory to aid the student in acquiring anesthesia and surgical nursing skills.

Prerequisites: VETS115, VETS 120, VETS 130, VETS 140, VETS 160, VETS 171, VETS 180, and BIOL 230 or permission of the instructor

(4: 3,3)

VETS 241 ADVANCED SURGICAL NURSING TECHNIQUES

This elective course is designed to afford students the opportunity to enhance the skills and techniques learned in Surgical Nursing and Anesthesia (VETS 240).

Prerequisite: A grade of C+ or higher in VETS 240 or permission of the instructor.

(1: 0,3)

VETS 245 RADIOGRAPHY

Radiographic evaluation of veterinary patients is an indispensable component in the diagnosis, monitoring, and prognosis of numerous animal diseases and injuries including various fractures of bones. Radiography is the recording on a special film of an image consisting of shadows formed by structures and objects in the path of the x-ray beam. This lecture and laboratory course prepares students to position animals for x-ray exposures of various parts of the body, process the exposed film in the dark room, and evaluate the results. The primary goal is to produce radiographs of diagnostic quality on the first attempt. The end product of these efforts, the radiograph, can be considered a piece of artwork in which the technician can take pride.

Topics covered in both lecture and laboratory include the physics of x-ray photon production, film response and processing, radiation safety, positioning and exposure of animals, radiographic technique evaluation, and use of contrast media.

The use of diagnostic ultrasonography in veterinary medicine has become widespread; many primary care veterinary practices are now equipped to perform this diagnostic procedure. The use of ultrasonography in conjunction with radiography provides excellent diagnostic imaging. Students in this course will learn the principles of ultrasonography and gains hands-on experience with the equipment involved.

Prerequisites: VETS 120, VETS 130, VETS 140, and VETS 180 or permission of the instructor.

(2: 1,3)

VETS 250 VETERINARY CLINICAL MANAGEMENT

This is a business management course for Veterinary Science Technology students. It includes such topics as record keeping, time and stress management, receptionist duties and dealing with difficult clients, both clinical and personal finance, the human-animal bond, death and dying, career goals, resumé writing, and interviews. State and federal laws are also discussed regarding the veterinary profession, sexual harassment, Right to Know, O.S.H.A., prescription and O.T.C. drugs, and various other legal forms and paperwork necessary in dealing with employees, employers, and clients.

Prerequisites: VETS 120, VETS 130, VETS 140, and VETS 200 (may also be taken concurrently) or permission of the instructor

Corequisite: VETS 200 (if not taken as a prerequisite)

(3: 2;2) Spring

VETS 255 VETERINARY MEDICAL NURSING

This lecture course covers pharmacology, vaccination protocols, and common disease processes affecting companion animals.

Prerequisites: VETS115, VETS 130, VETS 140, VETS 160, VETS 171, VETS 180, VETS 200 (may also be taken concurrently), BIOL 230, and CHEM 120 or CHEM 180 or permission of the instructor

Corequisite: VETS 200 (if not taken as a prerequisite)

(3: 3,0) Spring

VETS 270 APPLIED CLINICAL NUTRITION

This is an elective course designed to introduce students to applied clinical nutrition. The course covers basic nutrition for both ruminant and simple stomach animals. Students learn how nutrition affects the animal patient and causes or impacts animal conditions. The laboratories and recitation periods are used to instruct students how to calculate animal nutrient requirements and feeding programs. Guest speakers from pet food companies and other nutritional professionals will be invited to address students.

Prerequisite: VETS 140

(3: 2,2) Fall

VETS 280 APPLIED PRIMATOLOGY

This elective course provides an introduction to the biology, husbandry, and health care of non-human primates used in biomedical research. Students receive hands-on experience in catching and restraining monkeys, administering drugs and compounds, and collecting samples from them. The necessary skills in handling Old World monkeys in a laboratory setting are reviewed.

Prerequisites: Lab Animal option, VETS 130, VETS 160, and/or permission of the instructor

(2: 1.5,2)

VETS 281 PRIMATOLOGY II

This elective course assumes that students have skills and knowledge gained from Applied Primatology and wish to build upon them by continuing to work with the monkeys in the Farnsworth Hall colony.

Much of the time is spent in the colony working in the areas of husbandry, health care, environmental enrichment, promotion of psychological well being, and bio-methodology with lab monkeys in single-caging, pair-caging, and gang-caging situations. Record keeping, behavioral observations, literature reviews, and report writing are involved in this course.

Prerequisites: Lab Animal option, VETS 280 (may also be taken concurrently), and/or permission of the instructor

Corequisite: VETS 280 (if not taken as prerequisite)

(2: 1,2)

STUDENT EXTERNSHIP CHECK-OFF TASK LIST

STUDENT NAME: _____

It is recommended to allow students the opportunity to participate in as much as possible on his/her externship. The externship is a valuable teaching tool that allows students to observe and perform skills that a veterinary technician will perform on a regular basis. It is highly recommended to allow the student to perform as many duties as possible to allow them to get a sense of what the field involves. Keep in mind that individual technical abilities will vary depending on the student's experience. It is ideal to allow the student to perform or teach him/her technical skills whenever the opportunity exists.

The following is a recommended list of skills and techniques we like to see our students involved with:

Please indicate on the line as follows: O - Observed P - Performed NA - Not Applicable

A. RECEPTIONIST/OFFICE PROCEDURES

- | | |
|--|--|
| <input type="checkbox"/> Admitting Patients
<input type="checkbox"/> Discharging Patients
<input type="checkbox"/> Record Keeping
<input type="checkbox"/> Computerization
<input type="checkbox"/> Filling Out Forms (Spay, Neuter, Vaccines) | <input type="checkbox"/> Telephone
<input type="checkbox"/> Appointment Scheduling
<input type="checkbox"/> Client Communication Skills
<input type="checkbox"/> Dispense Medications
<input type="checkbox"/> (Other) _____ |
|--|--|

B. PHYSICAL EXAMS & OFFICE VISITS

-
- Record Patient History
-
-
- Ophthalmoscope
-
-
- Otoscope
-
-
- TPR's
-
-
- Weight
-
-
- Trim Nails
-
-
- Clean Ears
-
-
- Apply Ear/Eye Ointment or Drops
-
-
- Express Anal Sacs

C. ADMINISTER MEDICATIONS

-
- I.V. Injection
-
-
- I.M. Injection
-
-
- S.C Injection
-
-
- Oral Medications
-
-
- Fluid Therapy
-
-
- Reconstitute Vaccine
-
-
- (Other) _____

D. RESTRAINT FOR BLOOD COLLECTION

- | | |
|--|---|
| <input type="checkbox"/> Cephalic
<input type="checkbox"/> Jugular
<input type="checkbox"/> Saphenous
<input type="checkbox"/> Femoral
<input type="checkbox"/> Tail
<input type="checkbox"/> (Other) _____ | Species _____
Species _____
Species _____
Species _____
Species _____ |
|--|---|

RESTRAINT FOR INJECTIONS

-
- I.V. injection
-
-
- I.M. injection
-
-
- S.C. injection
-
-
- (Other) _____

E. PERFORM BLOOD COLLECTION

-
- Cephalic
-
-
- Jugular
-
-
- Saphenous
-
-
- Femoral
-
-
- (Other) _____

F. I.V. CATHETER

-
- Placement
-
-
- Monitor catheter
-
-
- Flushing catheter
-
-
- (Other) _____

- G. PHARMACY & DOSING
- _____ Calculate doses
 - _____ Properly read & fill prescriptions
 - _____ Proper dispensing labels & directions
 - _____ Proper handling of controlled substances
 - _____ Drug Inventory
 - _____ (Other) _____

- H. LABORATORY
- _____ Fecals
 - _____ Urine
 - _____ Heartworm checks
 - _____ FELV/FIV checks
 - _____ CBCs
 - _____ (Other) _____

- I. SURGERY
- _____ Administer anesthetics
 - _____ By what routes _____
 - _____ Clip and prep
 - _____ Scrubbing and gowning
 - _____ Proper handling of surgery pack
 - _____ Use of autoclave
 - _____ Sterilization procedures
 - _____ Use surgical instruments
 - _____ Sterile techniques

- J. MONITORING EQUIP
- _____ ECG
 - _____ Pulse oximeter
 - _____ Capnometer
 - _____ Esophageal Stethoscope
 - _____ (Other) _____

- K. ANESTHESIOLOGY
- _____ Use of pre-anesthetics
 - _____ Endotracheal tube placement
 - _____ Emergency procedures (CPR) and crash cart
 - _____ Monitoring of surgical planes
 - _____ Post-op monitoring
 - _____ (Other) _____

- L. RADIOLOGY
- _____ Patient positioning
 - _____ Personnel Safety
 - _____ Use of technique chart
 - _____ Develop radiographs
 - _____ Record keeping

- M. DENTISTRY
- _____ Teeth scaling & cleaning
 - _____ Tooth polishing

- N. HUSBANDRY
- _____ Feed & water
 - _____ Clean Kennels

- O. LARGE ANIMAL ASSISTING
- _____ Catching and haltering animals
 - _____ Ultrasonography
 - _____ Artificial Insemination
 - _____ Other restraint techniques
 - _____ Explain _____

- P. OTHER TECHNIQUES
- _____ Urinary catheters
 - _____ Orogastic tube
 - _____ Cystocentesis
 - _____ (Other) _____
 - _____ (Other) _____

Supervisor/Mentor Signature _____ Date _____