VT-1120 Introduction to Veterinary Technology  
2 Credits  
Introduction to the profession of veterinary technology. Includes terminology with emphasis on word components, spelling, pronunciation, word analysis, common colloquialisms and abbreviations. Introduction to legal, moral, ethical status of animals in modern society. Discussion of profession, its legal ramifications and career paths open to graduate veterinary technicians. Introduction to common breeds and types of domestic animal species and related medical issues. Introduction to animal euthanasia and veterinary technician's role in that procedure.  
Lecture: 2 hours  
Prerequisite(s): Departmental approval.  
VT-1325 Veterinary Office Applications  
2 Credits  
Overview of veterinary practice management including veterinary medical record keeping, interoffice communications and public relations techniques. Automated veterinary office processing and record-keeping. Computer hardware and software commonly found in veterinary practices described along with office procedures and work flow. Special emphasis on veterinary technician's role in these processes.  
Lecture: 1 hour; Laboratory: 2 hours  
Prerequisite(s): Departmental approval.  
VT-1401 Veterinary Science I  
4 Credits  
Recognition of physical and behavioral characteristics of commonly encountered dog and cat breeds. Introduction to basic companion animal and laboratory animal behavior, husbandry and nutrition. Laboratory focuses on non-invasive clinical management techniques including physical examination, grooming and other in-office procedures.  
Lecture: 3 hours; Laboratory: 2 hours  
Prerequisite(s): Departmental approval; admission to program.  
VT-1410 Veterinary Science II  
3 Credits  
Fundamentals of physical and behavioral characteristics of horses, cattle, sheep, goats, pigs, poultry and camelids. Introduces basic husbandry and nutrition for these species. Laboratory focuses on restraint, handling and performance of common veterinary procedures used as part of large animal management and/or treatment of common clinical conditions. Field trips required for laboratory portion of course.  
Lecture: 2.5 hours; Laboratory: 1 hour  
Prerequisite(s): VT-1401 Veterinary Science I, BIO-1420 Anatomy and Physiology of Domestic Animals II, or concurrent enrollment.  
VT-1521 Veterinary Pathology I  
2 Credits  
Study of identification techniques, nomenclature, life cycles, epidemiology and control of internal and external parasites of small animals, horses and ruminants.  
Lecture: 1 hour; Laboratory: 3 hours  
Prerequisite(s): BIO-1410 Anatomy and Physiology of Domestic Animals I or concurrent enrollment; and departmental approval; admission to program.  
VT-1530 Veterinary Pathology II  
2 Credits  
Study and application of microbiologic techniques commonly performed in veterinary practices. Includes survey of microorganisms and associated disease conditions relevant to veterinary medicine and procedures to collect, culture and identify these microorganisms.  
Lecture: 1 hour; Laboratory: 3 hours  
Prerequisite(s): VT-1521 Veterinary Pathology I.  
VT-1600 Veterinary Surgical Nursing and Assisting  
3 Credits  
Fundamentals of routine veterinary surgery including instrumentation, patient preparation, aseptic technique, fluid therapy, wound healing, specialized procedures and general nursing care. Fundamentals of electrocardiography including operation of electrocardiograph, origin of the ECG tracing and recognition of common cardiac arrhythmias.  
Lecture: 1 hour; Laboratory: 6 hours  
Prerequisite(s): VT-1401 Veterinary Science I, and BIO-1420 Anatomy and Physiology of Domestic Animals II or concurrent enrollment.  
VT-1700 Veterinary Diagnostic Imaging  
3 Credits  
Introduction to radiography, ultrasonography, CT, MRI, and nuclear scintigraphy imaging modalities. Preparation, use and maintenance of radiography and ultrasonography equipment. Acquisition and processing of digital and analog diagnostic images.  
Lecture: 2 hours; Laboratory: 3 hours  
Prerequisite(s): VT-1401 Veterinary Science I, and BIO-1420 Anatomy and Physiology of Domestic Animals II or concurrent enrollment.  
VT-2200 Dentistry for Veterinary Technicians  
1 Credit  
Fundamentals of veterinary dentistry. Students learn how to perform oral cavity assessments, routine dental cleaning, dental charting, and client education, and assist with advanced dental procedures.  
Lecture: 1 hour  
Prerequisite(s): VT-1600 Veterinary Surgical Nursing and Assisting., and BIO-1420 Anatomy and Physiology of Domestic Animals II.  
VT-2300 Pharmacology for Veterinary Technicians  
2 Credits  
Introduction to veterinary pharmacology including common drug terminology, classifications and usages of drugs, dosage calculations, methods of drug administration, side effects and contraindications.  
Lecture: 2 hours  
Prerequisite(s): VT-1401 Veterinary Science I, and BIO-1420 Anatomy and Physiology of Domestic Animals II, and VT-1120 Introduction to Veterinary Technology.  
VT-2402 Veterinary Pathology III  
2 Credits  
Veterinary hematology and chemistry laboratory procedures including complete blood counts and clinical chemistries performed commonly in veterinary practices.  
Lecture: 1 hour; Laboratory: 3 hours  
Prerequisite(s): BIO-1420 Anatomy and Physiology of Domestic Animals II, and VT-1521 Veterinary Pathology I.  

VETERINARY TECHNOLOGY (VT)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Lecture</th>
<th>Laboratory</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VT-2412</td>
<td>Veterinary Pathology IV</td>
<td>2</td>
<td>Veterinary medical laboratory procedures performed commonly in veterinary practices including urinalysis, vaginal cytology, ear cytology, cytology of tissues and fluids, bone marrow evaluation, serology, coagulation tests and necropsy.</td>
<td>1 hour</td>
<td>3 hours</td>
<td>VT-2402 Veterinary Pathology II.</td>
</tr>
<tr>
<td>VT-2520</td>
<td>Animal Health and Disease</td>
<td>3</td>
<td>Physiological systems approach to the most frequently encountered diseases and clinical problems of companion animals, horses and production animals, including disease names, definition and history, animals at risk, causes and signs, diagnosis, treatment and prevention.</td>
<td>3 hours</td>
<td></td>
<td>VT-2300 Pharmacology for Veterinary Technicians, and departmental approval: admission to the program.</td>
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<tr>
<td>VT-2610</td>
<td>Veterinary Anesthesia, Analgesia, &amp; Dental Techniques</td>
<td>3</td>
<td>Fundamentals of veterinary anesthesia and analgesia. Students learn how to induce, maintain, and monitor anesthesia, administer and assess response to analgesics, and perform routine veterinary dental cleaning procedures.</td>
<td>2 hours</td>
<td>3 hours</td>
<td>VT-1600 Veterinary Surgical Nursing and Assisting, VT-2300 Pharmacology for Veterinary Technicians, and VT-2200 Dentistry for Veterinary Technicians.</td>
</tr>
<tr>
<td>VT-2650</td>
<td>Veterinary Emergency and Critical Care</td>
<td>1</td>
<td>Fundamentals of veterinary emergency and critical care, including client communication, triage, first aid; patient transport, emergency techniques; life support measures, care of recumbent or otherwise compromised patients; wound care and nursing considerations; CPR and CPRC. Also integrated review of fluid therapy and patient monitoring techniques.</td>
<td>1 hour</td>
<td></td>
<td>VT-2610 Veterinary Anesthesia, Analgesia, and Dental Techniques.</td>
</tr>
<tr>
<td>VT-2700</td>
<td>Avian and Exotic Animal Medicine</td>
<td>2</td>
<td>Introduction to avian and exotic animal husbandry, physical examination, clinical procedures and common clinical conditions. Field trips may be included.</td>
<td>2 hours</td>
<td></td>
<td>VT-2610 Veterinary Anesthesia, Analgesia, and Dental Techniques, and VT-2412 Veterinary Pathology IV.</td>
</tr>
<tr>
<td>VT-2851</td>
<td>Veterinary Practicum and Seminar I</td>
<td>1</td>
<td>Includes practicum and on-campus seminar. In practicum, students observe and assist with common procedures in clinical settings. Clinical settings include small animal practice, animal population control facility, laboratory animal facility, equine practice, food animal practice/facility, and exotic animal practice/facility. In seminar, students discuss individual clinical situations occurring during practicum experience, and study technicians role in euthanasia of an animal including methodology, mental preparation and understanding of the grieving owner.</td>
<td>.5 hours</td>
<td></td>
<td>VT-1410 Veterinary Science II.</td>
</tr>
<tr>
<td>VT-2860</td>
<td>Veterinary Practicum and Seminar II</td>
<td>2</td>
<td>Includes practicum and on-campus seminar. In practicum, students observe and assist with common procedures in clinical settings. Clinical settings include small animal practice, animal population control facility, laboratory animal facility, equine practice, food animal practice/facility, and exotic animal practice/facility. In seminar, students discuss individual clinical situations occurring during the veterinary practicum experience, study the technician’s role in pediatrics and first aid, and prepare to search for employment.</td>
<td>1 hour</td>
<td>7 hours/week</td>
<td>VT-2851 Veterinary Practicum and Seminar I.</td>
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<tr>
<td>VT-2860</td>
<td>Veterinary Practicum and Seminar II</td>
<td>2</td>
<td>Includes practicum and on-campus seminar. In practicum, students observe and assist with common procedures in clinical settings. Clinical settings include small animal practice, animal population control facility, laboratory animal facility, equine practice, food animal practice/facility, and exotic animal practice/facility. In seminar, students discuss individual clinical situations occurring during the veterinary practicum experience, study the technician’s role in pediatrics and first aid, and prepare to search for employment.</td>
<td>1 hour</td>
<td>7 hours/week</td>
<td>VT-2851 Veterinary Practicum and Seminar I.</td>
</tr>
<tr>
<td>VT-2940</td>
<td>Veterinary Field Experience</td>
<td>2</td>
<td>Capstone course in Veterinary Technology. Clinical experience involving practice of techniques commonly used in veterinary medicine. Students assigned to two different types of veterinary facilities. Site options may include small animal practices, animal emergency clinics, referral practices, equine practices, mixed practices, food animal practices, laboratory animal facilities and the Cleveland Metroparks Zoo.</td>
<td>24 hrs/week</td>
<td></td>
<td>VT-2860 Veterinary Practicum and Seminar II, and VT-2610 Veterinary Anesthesia, Analgesia, &amp; Dental Techniques.</td>
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<tr>
<td>VT-2820</td>
<td>Independent Advanced Study/Research in Veterinary</td>
<td>1-3</td>
<td>Directed individual advanced study. Study/research title and specific content arranged between instructor and student. May be repeated for a maximum of six credits of different topics.</td>
<td>1-3 hours</td>
<td></td>
<td>Departmental approval, and instructor approval, and ENG-0990 Language Fundamentals II or appropriate score on English Placement Test.</td>
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