Area of Interest: Health Sciences

**Veterinary Technician**

Ontario College Diploma  
2 Years  
Ottawa Campus

**Our Program**

**Transform learning into making a difference on a veterinary health care team.**

The two-year Veterinary Technician Ontario College Diploma program prepares you to enter the profession by offering an authentic learning experience working alongside highly credentialed professionals in our on-campus veterinary medical facility and in our partnering facilities in the local community.

You benefit from learning in the 10,100 square-foot Veterinary Learning Centre and Clinic. This facility includes a reception area, exam rooms, husbandry area, surgical suite, dental suite, radiography room and more. This facility is similar to a real-life small animal clinic, enabling you to have an on-campus learning experience using the equipment you would also use in the field.

As a student, you have the unique opportunity to provide medical care to shelter animals, helping to prepare them for adoption. While in the program, you become a vital member of the veterinary health care team who develops and acquires valuable knowledge and skills that can then be applied to a variety of areas within the Veterinary Learning Centre and Clinic while working with these animals. This includes:

- physical exams and patient care
- preparing and administering medications
- specimen collection and sample analysis
- surgical assisting and anesthesia
- producing diagnostic radiographs
- providing nutritional support

Additional benefits of this program are its numerous accreditations. It is accredited by the College of Veterinarians of Ontario, the Canadian Veterinary Medical Association, the Ontario Association of Veterinary Technicians; certified by the Canadian Council of Animal Care; and registered with the Ontario Ministry of Agriculture, Food and Rural Affairs. Graduates are eligible for consideration for registration by the Ontario Association of Veterinary Technicians and by the Canadian Association for Laboratory Animal Science.

This challenging and rewarding program offers quality academics and practical experiences, which provide a solid foundation for graduates who are entering various career paths within the exciting profession of veterinary technician. Graduates of this program may find employment in a variety of professional settings, which include:

- small, large, or mixed animal veterinary practices
- animal shelters
- veterinary pharmaceutical companies
- medical equipment and nutritional sales
- zoological parks and wildlife facilities
• research facilities
• provincial and federal government agencies
• post-secondary institutions and regulatory bodies

SUCCESS FACTORS

This program is well-suited for students who:

• Are able to dedicate two hours of studying outside of class for each hour of instructional lecture or lab.
• Have a strong background in math and science.
• Have flexible schedules and can perform shift work including early mornings, evenings, weekends and holidays.
• Possess excellent communication and interpersonal skills and have the ability to develop professional relationships with coworkers and clientele.
• Have exceptional critical-thinking skills.
• Can take direction and accomplish tasks efficiently.
• Are self-motivated, can work independently, can thrive in a team environment and are comfortable in a leadership role.
• Are detail oriented, organized and committed to achieving excellence in their work.
• Are dedicated to providing high quality veterinary medical care with compassion towards animals and people.
• Have good manual dexterity and strong fine motor skills.
• Have the ability to lift and carry up to 25kg, stand for long periods of time and handle a physically demanding environment.
• Are comfortable working within a variety of clinical settings, managing large and small patients and handling biological materials.

Employment

Graduates may find employment as veterinary technicians in small, large, or mixed animal veterinary practices, humane societies, veterinary pharmaceutical, medical equipment and nutrition industries, zoological parks, university and research facilities and provincial and federal government agencies.

Learning Outcomes

The graduate has reliably demonstrated the ability to:

• Perform basic patient examinations and collect data on vital signs.
• Restrain and manage small animals in clinical situations.
• Administer medications by common drug routes and prepare pharmaceuticals as prescribed by a veterinarian.
• Prepare anesthetic delivery systems, induce anesthesia, and monitor patients under anesthesia.
• Prepare and maintain the surgical area and assist during surgical procedures.
• Perform dental prophylactic procedures on dogs and cats.
• Produce standard diagnostic radiographs.
• Collect and process samples for diagnostic laboratory work.
• Perform common veterinary diagnostic tests, such as blood chemistries, differentials, culture and sensitivities and EKGs.
• Perform basic veterinary practice management including computer applications.
• Recognize behavioural signs of small animals.
• Counsel clients especially in the area of pet nutrition.
• Identify and apply discipline-specific practices that contribute to the local and global community through social responsibility, economic commitment and environmental stewardship.

Program of Study

<table>
<thead>
<tr>
<th>Level: 01</th>
<th>Courses</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENL1813S</td>
<td>Communications I</td>
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</tr>
<tr>
<td>VET1101</td>
<td>Animal Care and Etymology</td>
<td>42.0</td>
</tr>
<tr>
<td>VET1102</td>
<td>Comparative Anatomy and Physiology I</td>
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</tr>
<tr>
<td>VET1103</td>
<td>Information Technology in Veterinary Practice</td>
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<tr>
<td>VET1104</td>
<td>Ethology</td>
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<td>VET1125</td>
<td>Essentials of Veterinary Mathematics</td>
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<td>VET1128</td>
<td>Ethics and Animal Welfare</td>
<td>28.0</td>
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<tr>
<td>VET1129T</td>
<td>Fundamentals of Laboratory Procedures (Theory)</td>
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<tr>
<td>VET1206</td>
<td>Veterinary Radiography</td>
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Choose one from equivalencies:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
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<tr>
<td>GED6320</td>
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<tr>
<td>VET1127</td>
<td>Clinical Practices I</td>
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<tr>
<td>VET1129L</td>
<td>Fundamentals of Laboratory Procedures (Lab)</td>
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<tr>
<td>VET1204</td>
<td>Clinical Mathematics</td>
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<td>VET1207</td>
<td>Surgical and Anesthetic Principles</td>
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<td>VET1208</td>
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<td>VET1210</td>
<td>Clinical Practices II</td>
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<tr>
<td>VET1211</td>
<td>Small and Large Animal Parasitology</td>
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<tr>
<td>ENL5501</td>
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<td>VET1309</td>
<td>Veterinary Dentistry</td>
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<tr>
<td>VET1311</td>
<td>Surgical, Anesthetic and Dental Procedures</td>
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<td>VET1312</td>
<td>Advanced Diagnostic Imaging</td>
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<td>VET1313T</td>
<td>Hematology and Urinalysis Theory</td>
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<td>VET1314</td>
<td>Large Animal Medicine</td>
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<td>VET1315</td>
<td>Animal Nutrition</td>
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<td>VET1417</td>
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<td>VET1418</td>
<td>Laboratory Animal Care</td>
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<td>VET1419</td>
<td>Emergency Medicine and Critical Care</td>
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### Choose one from equivalencies: Courses

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<td>VET1420 Cytology and Clinical Chemistry</td>
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<td>VET1421 Clinical Practices IV</td>
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<tr>
<td>VET1422 Veterinary Practicum</td>
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### Fees for the 2020/2021 Academic Year

Tuition and related ancillary fees for this program can be viewed by using the Tuition and Fees Estimator tool at [http://www.algonquincollege.com/fee-estimator](http://www.algonquincollege.com/fee-estimator)

Further information on fees can be found by visiting the Registrar’s Office website at [http://www.algonquincollege.com/ro](http://www.algonquincollege.com/ro)

Fees are subject to change.

Additional program related expenses include:

- Books, scrubs, lab coat and other supplies are estimated to cost $1500-$1700 for the first year and $1000-$1200 for the second year.
- The pre-exposure rabies vaccine costs are estimated at $600-$800, subject to change.
- Police Criminal Records Check cost estimate at $47.00, subject to change.
- Paramed charges $60.00 for an appointment, subject to change each September.
- Students in the program must be mask fit-tested for a N-95 equivalent mask required for occupational health and safety. Cost is estimated at $40.00, subject to change.
- Travel expenses to partnering facilities or after hour assignments are the responsibility of the student.
- Students are required to finance field placement related expenses, such as travel and housing accommodations (if applicable).
- Upon successful completion of the program graduates may apply to write the Veterinary Technician National Exam through the Ontario Association of Veterinary Technicians (OAVT). Fee information is available at [http://www.oavt.org/](http://www.oavt.org/).

### Admission Requirements for the 2021/2022 Academic Year

#### College Eligibility

- Ontario Secondary School Diploma (OSSD) or equivalent. Applicants with an OSSD showing senior English and/or Mathematics courses at the Basic Level, or with Workplace or Open courses, will be tested to determine their eligibility for admission; **OR**
- Academic and Career Entrance (ACE) certificate; **OR**
- General Educational Development (GED) certificate; **OR**
- Mature Student status (19 years of age or older and without a high school diploma at the start of the program). Eligibility may be determined by academic achievement testing for which a fee of $50 (subject to change) will be charged.

#### Program Eligibility
• English Grade 12 (ENG4C or equivalent) with a grade of 65% or higher.
• Mathematics Grade 12 (MAP4C or equivalent) with a grade of 65% or higher.
• Biology Grade 11 or 12 with a grade of 65% or higher.
• Chemistry Grade 11 or 12 with a grade of 65% or higher.

All applicants must complete an assessment of their knowledge and skills through the Test Centre, and pay an exam fee. Results from the Algonquin College Health Program Admissions Test (AC-HPAT) will be utilized to establish minimum eligibility and applicant ranking. The AC-HPAT can only be written once per academic cycle. For further information on the HPAT and how to book your assessment, please visit Algonquin’s Test Centre.

• Applicants with international transcripts must provide proof of the subject specific requirements noted above and may be required to provide proof of language proficiency. Domestic applicants with international transcripts must be evaluated through the International Credential Assessment Service of Canada (ICAS) or World Education Services (WES).

• IELTS-International English Language Testing Service (Academic) Overall band of 6.5 with a minimum of 6.0 in each band OR TOEFL-Internet-based (iBT)-overall 88, with a minimum of 22 in each component: Reading 22; Listening 22; Speaking 22; Writing 22.

Required upon entry into the program, accepted applicants must provide an Immunization Certificate to Paramed as proof of pre-exposure Rabies Vaccine, adequate titre results and Tetanus Vaccine within the first week of level 01 and level 03 of the program. This is mandatory as it allows the student to participate in clinical labs and field placements. Students are required to obtain vaccinations and titres at their own expense (approximately $800).

Police Records Check Documentation:

Though not an admission requirement, applicants must note important information listed below regarding Police Records Check Program requirements.

To be eligible to participate in lab, clinic and placement activities starting in Level 01 of the program and continuing throughout, students must submit a clear Police Criminal Records Check (PCRC).

It is the student’s responsibility to obtain the PCRC from their local Police Department and pay all associated costs. Should further information be required, contact the Program Chair.

All applicants are expected to own a laptop, be computer proficient and have a working knowledge of Microsoft Office Suite.

Applicants coming directly out of Secondary School are encouraged to take the Pre-Health Sciences Pathways to Advanced Diplomas and Degrees program in General Arts and Science or the Veterinary Assistant Program prior to taking the Veterinary Technician program.

Admission Requirements for 2020/2021 Academic Year

College Eligibility

• Ontario Secondary School Diploma (OSSD) or equivalent. Applicants with an OSSD showing senior English and/or Mathematics courses at the Basic Level, or with Workplace or Open courses, will be tested to determine their eligibility for admission; OR
• Academic and Career Entrance (ACE) certificate; OR
• General Educational Development (GED) certificate; OR
• Mature Student status (19 years of age or older and without a high school diploma at the start of the program). Eligibility may be determined by academic achievement testing for which a fee of $50 (subject to change) will be charged.

Program Eligibility

• English Grade 12 (ENG4C or equivalent) with a grade of 65% or higher.
• Mathematics Grade 12 (MAP4C or equivalent) with a grade of 65% or higher.
• Biology Grade 11 or 12 with a grade of 65% or higher.
• Chemistry Grade 11 or 12 with a grade of 65% or higher.

• All applicants must complete a health program assessment through the Test Centre, and will be required to pay the current fee of $50 (subject to change). Results from the health program assessment will be utilized to establish minimum eligibility and also ranked, with the highest ranked applicants given priority admission. The health program assessment can only be written once per academic cycle.

• Recognition of post-secondary credentials is given during the selection process for this program.

• International applicants must provide proof of the subject specific requirements noted above along with proof of either: (IELTS / TOEFL) IELTS-International English Language Testing Service (Academic) Overall band of 6.5 with a minimum of 6.0 in each band; OR TOEFL-Internet-based (iBT)-overall 88, with a minimum of 22 in each component: Reading 22; Listening 22; Speaking 22; Writing 22.

• Applicants with international transcripts must provide proof of the subject specific requirements noted above and may be required to provide proof of language proficiency.

• Required upon entry into the program, accepted applicants must provide an Immunization Certificate to Paramed as proof of pre-exposure Rabies Vaccine adequate titre results and Tetanus Vaccine within the first week of level 01 and level 03 of the program. This is mandatory as it allows the student to participate in clinical labs and field placements. Students are required to obtain vaccinations and titres at their own expense (approximately $800).

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Application Information

VETERINARY TECHNICIAN
Program Code 6320X01FWO

Applications to full-time day programs must be submitted with official transcripts showing completion of the academic admission requirements through:

ontariocolleges.ca
60 Corporate Court
Guelph, Ontario
N1G 5J3
1-888-892-2228

Students currently enrolled in an Ontario secondary school should notify their Guidance Office prior to their online application at http://www.ontariocolleges.ca/

Applications for Fall Term and Winter Term admission received by February 1 will be given equal consideration. Applications received after February 1 will be processed on a first-come, first-served basis as long as places are available.
International applicants please visit this link for application process information: https://algonquincollege.force.com/myACInt

For further information on the admissions process, contact:

Registrar`s Office
Algonquin College
1385 Woodroffe Ave
Ottawa, ON K2G 1V8
Telephone: 613-727-0002
Toll-free: 1-800-565-4723
TTY: 613-727-7766
Fax: 613-727-7632
Email: mailto:AskUs@algonquincollege.com

Additional Information

Programs at Algonquin College are Bring Your Own Device (BYOD). To see the BYOD requirements for your program, please visit: http://www7.algonquincollege.com/byod

As an accredited College, a graduate is eligible to become a Registered Veterinary Technician (RVT). The Ontario Association of Veterinary Technicians designates this credential to those graduates who meet specific criteria. Registration requirements for RVTs are found at the Ontario Association of Veterinary Technicians website. They include but are not limited to, the following:

- Graduate from an OAVT accredited college.
- Successfully complete the registration examination.
- Complete the OAVT Professionalism and Ethics Workshop.
- Submit a clear Police Criminal Records Check.

The Veterinary Technician program highly recommends that all applicants review the OAVT areas of expertise for Registered Veterinary Technicians. This is available at www.oavt.org.

It is recommended that applicants have previous experience working with animals or become familiar with the Veterinary Technician profession before entering the program. Applicants are also advised that holiday, weekend, early morning and evening hour assignments are to be expected as the students are responsible for the care of the animals and the cleaning of the facilities seven days a week. This takes place before and after regular class hours. A typical rotation for a Veterinary Technician student would be four, four-day rotations per semester.

The minimum passing grade for the core theory courses in this program is 60%. The minimum passing grade for the practical clinical sessions in this program is 70%. All clinical practice and scheduled labs are mandatory. Absences negatively affect the final grade and may result in the student earning an F grade in the course should they be absent for 20% of the scheduled lab time. Students can have a maximum of one failure in a given course. Students failing a core course for the second time are permanently withdrawn from the program with no chance to reapply. Should a student earn a failing grade, however satisfy the criteria for being granted a supplemental privilege, they are permitted a maximum of two supplemental exams for each semester they are registered in the program. Students who fail three courses in one semester are not eligible for supplemental exams and are withdrawn from the program for one year. Students who are unsuccessful in a Level 01 course must reapply through ontariocolleges.ca to be considered to return full-time to the program. Off cycle students who are looking to return to the program in Level 02, 03 or 04 are to contact the Program Coordinator and submit a request to be considered to return.

All Level 01, 02, 03 and 04 courses must be successfully completed in order to progress on to VET1422 - Veterinary Practicum.

More details on how a student can progress through the program can be found in the Veterinary Technician Program Student Handbook which is accessible to students registered in the Veterinary Technician Program.

For more information, contact Jennifer King, Program Coordinator, at 613-727-4723 ext. 5768 or mailto:kingj@algonquincollege.com
Course Descriptions

**ENL1813S Communications I**

Communication remains an essential skill sought by employers, regardless of discipline or field of study. Using a practical, vocation-oriented approach, students focus on meeting the requirements of effective communication. Students practise writing, speaking, reading, listening, locating and documenting information, and using technology to communicate professionally. Students develop and strengthen communication skills that contribute to success in both educational and workplace environments.

Prerequisite(s): none  
Corerequisite(s): none

**ENL5501 Professional Communication Skills for Veterinary Technicians**

Strong oral and written communication skills are essential to veterinary technicians working in clinical practices, research facilities, and community or rescue organizations. Using a variety of workplace scenarios, students develop and practise the written and oral skills they need to communicate confidently and effectively with the public and other members of the veterinary team. The importance of critical thinking in a medical profession is also explored, and students are given ample opportunity to enhance and apply their critical-thinking skills.

Prerequisite(s): ENL1813S (2) and VET1101  
Corerequisite(s): none

**GED6320 General Education Elective**

Students choose one course, from a group of general education electives, which meets one of the following five theme requirements: Arts in Society, Civic Life, Social and Cultural Understanding, Personal Understanding, and Science and Technology.

Prerequisite(s): none  
Corerequisite(s): none

**GED6320 General Education Elective**

Students choose one course, from a group of general education electives, which meets one of the following five theme requirements: Arts in Society, Civic Life, Social and Cultural Understanding, Personal Understanding, and Science and Technology.

Prerequisite(s): none  
Corerequisite(s): none

**GED6320 General Education Elective**

Students choose one course, from a group of general education electives, which meets one of the following five theme requirements: Arts in Society, Civic Life, Social and Cultural Understanding, Personal Understanding, and Science and Technology.

Prerequisite(s): none  
Corerequisite(s): none

**VET1101 Animal Care and Etymology**

Veterinary technicians play a vital professional role in the animal health care industry. Knowledge of and adherence to expected professional standards is paramount. Students are introduced to provincial and national veterinary professional organizations, legislation, regulatory standards and ethics. Animal care topics include life stages, common breeds, infectious disease, preventative medicine, sanitation methods and disease control, low stress restraint techniques and the importance of the human animal bond. A medical vocabulary foundation is provided.

Prerequisite(s): none
Corerequisite(s): VET1103 and VET1104 and VET1125

**VET1102 Comparative Anatomy and Physiology I**

A comparative approach to the anatomy and physiology of the skeletal, muscular, digestive and nervous systems of common domestic animals is explored in theory and laboratory settings. The structure and function of cells, including the microscopic study of gross and histological specimens of these body systems, is provided. Common pathological conditions affecting these organ systems are reviewed.

Prerequisite(s): none
Corerequisite(s): VET1128 and VET1129L

**VET1103 Information Technology in Veterinary Practice**

The use of media and medical data management software is an essential skill for veterinary professionals. Students become proficient with the use of Avimark, a veterinary practice software. Skills acquired include client and staff scheduling, booking appointments, client file setup, updating medical records, transactions and budget analysis. Competency in Microsoft Office is reviewed and the creation of a client oriented slide show is developed. Use of social media in veterinary medicine is explored. Students will examine veterinary practice websites for quality and will develop their own professional social media presence to market themselves in a manner that gives them the best opportunity for establishing long lasting professional connections.

Prerequisite(s): none
Corerequisite(s): VET1101 and VET1104 and VET1125

**VET1104 Ethology**

Thorough understanding of animal behaviour and communication is required to work safely, knowledgably and effectively with patients and clients. The Ethology theory course studies animal evolution, domestication and the physiological, environmental and developmental basis of behaviour. Common normal and abnormal manifestations of behaviour in domestic animal species are explored. Approaches regarding prevention, basic training tools and various treatments to correct undesirable behaviours are described. Video presentations, demonstrations and guest presenters will complement the delivery, and students will have the opportunity to apply their knowledge in the on campus veterinary clinic throughout the duration of the program.

Prerequisite(s): none
Corerequisite(s): VET1101 and VET1103 and VET1125

**VET1125 Essentials of Veterinary Mathematics**

Veterinary technicians require a solid foundation in basic math concepts for accuracy in patient medical care and treatment. Students review fractions, percentages, ratios, metric conversions, household measurement systems and scientific notation. Students perform basic applied calculations related to drug dosages, laboratory results, radiology and nutrition. Correct rounding techniques and syringe choices for volumetric drug doses are explained and practiced.

Prerequisite(s): none
Corerequisite(s): VET1101 and VET1103 and VET1104

**VET1127 Clinical Practices I**

Fundamental practical skills used by the veterinary technician in clinical practice are introduced in this hands-on course. With the use of animal models, students acquire proficiency in small animal restraint and medication administration techniques including oral, ophthalmic, aural and injectable routes. The importance of safe, low stress approaches to animal handling is emphasized. Activities include dose calculations, needle and syringe sizing and charting.

Prerequisite(s): none
Corerequisite(s): none
VET128 Ethics and Animal Welfare

Ethics and ethical decisions as they relate to professional practice, animal welfare and law is the focus of this critical thinking based course. Students gain an understanding of the complexity of ethical, legal and animal welfare concerns that occur in society and veterinary practice. The course aims to provide students with an ethical decision-making framework which can be applied to commonly encountered issues and integrated into daily professional practice. Through case studies, scenarios and group discussions, students use the framework introduced to develop an informed opinion and make an ethically sound decision when examining animal welfare issues.

Prerequisite(s): none  
Corerequisite(s): VET1102 and VET1129T

VET1129L Fundamentals of Laboratory Procedures (Lab)

The ability to effectively perform diagnostic tests is one of the key roles veterinary technicians play in a veterinary medical facility. Students employ their knowledge of diagnostic testing methods to isolate and identify microorganisms, assess patients for parasitic and viral infections, evaluate the results of fungal cultures, perform fecal flotations and sediments, acquire packed cell volumes, and complete partial urinalyses. Given the importance of acquiring accurate results, student attention will also be focused on quality control, equipment maintenance, and the proper documentation of laboratory findings.

Prerequisite(s): none  
Corerequisite(s): VET1102 and VET1128

VET1129T Fundamentals of Laboratory Procedures (Theory)

The success of a veterinary medical facility is reliant upon a veterinary technician's understanding of their role in the veterinary diagnostic lab. In addition to exploring this role, students investigate the layout and operation of a veterinary diagnostic lab, develop a list of the uses of the most common laboratory equipment, and review the numerous strategies that must be employed to ensure that laboratory test results are accurate. In preparation for confidently performing laboratory testing, students also examine the proper procedures for fecal analyses; bacterial, viral and fungal testing; and the evaluation of blood and urine.

Prerequisite(s): none  
Corerequisite(s): VET1102 and VET1128

VET1204 Clinical Mathematics

More advanced calculation applications to veterinary patient care are provided. These include drug dosages and dispensing, IV fluid therapy, constant rate infusions, solutions and dilutions. A brief overview of statistics is discussed.

Prerequisite(s): VET1125  
Corerequisite(s): VET1205 and VET1207 and VET1210

VET1205 Veterinary Pharmacology

Students are provided with a theoretical understanding of the pharmacokinetics and pharmacodynamics of drugs. Common drugs used in veterinary medicine are presented in relation to body system or drug category. These include nervous system, cardiopulmonary, gastrointestinal, urinaiy, hormonal, behavioural, anti-inflammatory, pain management, chemotherapeutic, antiparasitic and antimicrobial drugs. Mode of action, side effects and client education are emphasized. Students also learn about Pharmacy management, important legislative regulations and legal responsibilities as they relate to the dispensing of pharmaceuticals in the veterinary environment.

Prerequisite(s): VET1101 and VET1102 and VET1104 and VET1125 and VET1128  
Corerequisite(s): VET1204 and VET1207

VET1206 Veterinary Radiography
The formation and properties of x-rays, the principles of radiographic image formation, image processing and applied radiography are studied. The purpose and operation of the components of veterinary radiography units are discussed with an emphasis on radiation safety.

Prerequisite(s): none
Corerequisite(s): none

**VET1207 Surgical and Anesthetic Principles**

The student demonstrates theoretical and applied knowledge in the following areas: clinical asepsis, anesthesiology, assistance in surgical techniques and animal nursing techniques.

Prerequisite(s): VET1101 and VET1104 and VET1125 and VET1127 and VET1128
Corerequisite(s): VET1204 and VET1205 and VET1210

**VET1208 Comparative Animal Anatomy and Physiology II**

Students examine the cardiovascular, respiratory, urinary, reproductive, endocrine, integumentary system and special senses. Students discuss common pathological conditions affecting these organ systems in small and large animal species. Laboratory sessions involve dissections.

Prerequisite(s): VET1102
Corerequisite(s): VET1211

**VET1210 Clinical Practices II**

Skills are developed as students gain an understanding of the practical application of patient health assessments, medication administration, medical documentation, sample collection, radiography, anesthetic systems and monitoring and surgical theatre skills. Responsibilities involving the quality care of the animals on site include early morning, noon, evening, weekend and holiday rotations outside of regularly scheduled class hours. Professionalism and work habits are evaluated.

Prerequisite(s): ENL1813S and VET1101 and VET1102 and VET1103 and VET1104 and VET1125 and VET1129T and VET1206
Corerequisite(s): VET1204 and VET1205 and VET1207 and VET1208 and VET1209

**VET1211 Small and Large Animal Parasitology**

One of the steps towards promoting animal health, and the health of the humans with which they coexist, is ensuring that animals are free from parasitic infections. Through the acquisition of theoretical principles, and the application of those theories in a laboratory setting, students will become proficient at testing for and recognizing small and large animal endoparasites and ectoparasites. An understanding of how each parasite is transmitted will also be gained.

Prerequisite(s): VET1102
Corerequisite(s): VET1208

**VET1309 Veterinary Dentistry**

Dental health has a significant impact on the patient’s overall well-being and Registered Veterinary Technicians can make remarkable improvements to a pet's quality of life when they provide dental care. Students will study dental anatomy, medical conditions, malocclusions and how each is treated. The dental prophylaxis procedure and importance of performing radiographs when assessing oral health is emphasized. Students develop an understanding of local oral anesthetic blocks and what is involved when a DVM performs extractions and common orthodontic procedures. At the completion of this theory course, students will fully understand comprehensive oral health assessment and treatment.

Prerequisite(s): VET1204 and VET1205 and VET1206 and VET1207 and VET1208 and VET1210 and VET1211
Corerequisite(s): none
VET1311 Surgical, Anesthetic and Dental Procedures

Students study and demonstrate knowledge of hypodermic procedures, common surgical operations in small animal private practice, genetics, dental prophylaxis, anesthetic monitoring of high-risk patients, pain management and analgesia, cardiology, fluid therapy and shock.

Prerequisite(s): VET1204 and VET1205 and VET1206 and VET1207 and VET1208 and VET1210 and VET1211
Corerequisite(s): none

VET1312 Advanced Diagnostic Imaging

The knowledge required to safely obtain quality diagnostic images through proper positioning and exposure is related to students as they study contrast radiology, ultrasonography, fluoroscopy and nuclear imaging.

Prerequisite(s): VET1204 and VET1205 and VET1206 and VET1207 and VET1208 and VET1210 and VET1211
Corerequisite(s): none

VET1313L Hematology and Urinalysis Laboratory

Analyzing blood and urine are key indicators to diagnosing and treating diseases and technicians are vital in identifying abnormalities. In a laboratory setting, students study the normal and abnormal maturation sequence of blood cells in bone marrow, red blood cell, white blood cell and platelet morphology and the significance of analyzing urine. Students perform automated and manual complete blood counts and a full urinalysis, recognizing normal and abnormal findings and their diagnostic significance.

Prerequisite(s): VET1204 and VET1208 and VET1211
Corerequisite(s): none

VET1313T Hematology and Urinalysis Theory

Analyzing blood and urine are key indicators to diagnosing and treating diseases and technicians are vital in identifying abnormalities. Students will study the normal and abnormal maturation sequence of blood cells in bone marrow, red blood cell, white blood cell and platelet morphology and the significance of analyzing urine. Students will gain the theoretical knowledge to perform automated and manual complete blood counts and a full urinalysis, recognizing normal and abnormal findings and their diagnostic significance.

Prerequisite(s): VET1204 and VET1208 and VET1211
Corerequisite(s): none

VET1314 Large Animal Medicine

Topics include large animal husbandry, production and disease. The student learns to converse intelligently with livestock owners, as well as obtain a background to facilitate employment by veterinary practitioners and government agencies dealing with livestock. Content focuses on horses, swine and ruminants.

Prerequisite(s): VET1204 and VET1205 and VET1206 and VET1207 and VET1208 and VET1210 and VET1211
Corerequisite(s): none

VET1315 Animal Nutrition

A patient’s diet is an important consideration when assessing their overall health and longevity. Students learn the nutritional requirements of large and small animals at various life stages including specific dietary needs of ill and recovering patients. Through evaluating and comparing a variety of veterinary diets, students gain the knowledge to counsel clients based on the dietary needs of their pets.
VET1316 Clinical Practices III

Within a veterinary facility, veterinary technicians perform a variety of medical procedures in the interest of animal health. Students acquire and perform skills with small and large animals in anesthesia, surgical assisting, dental prophylaxis, radiography, sample collection and analysis, patient assessment and medication administration. With the support of our community partners, students rotate through on and off-site veterinary facilities in the early morning, evening, weekends and holidays.

Prerequisite(s): VET1127 and VET1129L and VET1204 and VET1205 and VET1207 and VET1208 and VET1210 and VET1211
Corerequisite(s): none

VET1417 Exotic Animal Medicine

Exotic pets are unique and require specialized care and handling when being treated at the veterinary hospital. Students study the anatomy and physiology, behaviour, housing needs, nutritional requirements, common diseases, sample collection and diagnostics, nursing care, anesthetics and safe handling techniques of caged birds and exotic pets. Caged birds, ferrets, chinchillas, hedgehogs, snakes, turtles and iguanas are among the animals discussed.

Prerequisite(s): VET1208
Corerequisite(s): VET1418 and VET1419 and VET1421

VET1418 Laboratory Animal Care

The veterinary technician has a vital role in the care of laboratory animals within a research setting. Students learn the principles of caring for laboratory animals and the standards of working in a regulatory environment within an animal research facility. This course involves studying the current Canadian legislation including the Animals for Research Act and the guidelines published by the Canadian Council on Animal Care (CCAC). Ethical issues surrounding laboratory animals are discussed and addressed.

Prerequisite(s): none
Corerequisite(s): VET1417

VET1419 Emergency Medicine and Critical Care

All veterinary technicians are faced with an emergency medical situation at some point in their career and their contribution can be significant in the treatment of the patient. Students explore diseases and procedures in the small animal veterinary hospital. Topics studied include First Aid, triage, emergency procedures, wound management, transfusion medicine, toxicities, neurological, ocular, cardiac, respiratory, abdominal, endocrine, urinary, reproductive and neonatal emergencies and oncology.

Prerequisite(s): none
Corerequisite(s): VET1417

VET1420 Cytology and Clinical Chemistry

Cytological and biological sample analysis is an important aspect of diagnosing disease. In this theory and laboratory course, students study and develop collection, handling and analytical skills to help yield accurate and precise test results. These skills, along with the ability to determine the significance of the tests results are developed specifically in the areas of serum chemistries, electrolytes, acid-base, cerebral spinal fluid, exfoliative and aspiration cytology including reproductive, exudates, transudates and malignant samples. Students continue to develop proficiency in laboratory tests performed in previous laboratory courses.

Prerequisite(s): VET1313T
Corerequisite(s): none
**VET1421 Clinical Practices IV**

Introducing new skills and building on skills developed in previous semesters, students perform in the on-campus veterinary clinic with greater independence and confidence in small animal anesthesia, surgical assisting, dental prophylaxis, radiography, sample collection and analysis, patient assessment and medication administration. Rodent handling and medication administration is introduced and performed. With the support of community partners, students rotate through on and off-site veterinary facilities in the early morning, evening, weekends and holidays.

Prerequisite(s): VET1311 and VET1312 and VET1313 and VET1314 and VET1315 and VET1316
Corerequisite(s): VET1420

**VET1422 Veterinary Practicum**

Following the successful completion of all other Veterinary Technician program credits, students' educational experiences are consolidated within a college approved veterinary medical facility over four weeks. Students are mentored by credentialed veterinary medical professionals and are given the opportunity to further develop their knowledge and skills, all while making lasting professional connections within the veterinary community. The chosen medical facility determines the working hours for the student, which can include days, evenings, overnights, weekends and holidays. Students are required to apply and compete for the position. The college requires the student to submit a cover letter and resume for consideration and be chosen as the successful candidate after an interview with the medical facility before proceeding with the practicum. A clear police criminal record check is to be submitted to the program coordinator the month before beginning the veterinary practicum.

Prerequisite(s): ENL1813S and ENL5501 and VET1101 and VET1102 and VET1103 and VET1125 and VET1127 and VET1128 and VET1129L and VET1129T and VET1204 and VET1205 and VET1206 and VET1207 and VET1208 and VET1210 and VET1211 and VET1309 and VET1311 and VET1312 and VET1313T and VET1314 and VET1315 and VET1417 and VET1418 and VET1419 and VET1424
Corerequisite(s): VET1313L and VET1316 and VET1420 and VET1421

**VET1424 Veterinary Practice Management**

Practice and team management is an opportunity which can bring about great career satisfaction for a veterinary technician. Students examine the principles of managing a veterinary medical facility. Areas of study include human resources management, client care, accounting and financial considerations, inventory management, business marketing principles and the legal and ethical aspects of operating a veterinary practice.

Prerequisite(s): ENL1813S and VET1204 and VET1205 and VET1206 and VET1207 and VET1208 and VET1209 and VET1210
Corerequisite(s): none