



## Veterinary Technology Program Application

The Associate of Applied Science in Veterinary Technology program is a rewarding and demanding occupational program combining hands-on experience with rigorous academic coursework. **Please read this packet carefully and submit all of the required documents.**

### The application includes the following:

1. Colorado Mountain College Application
  - a. High school and/or college transcripts which demonstrate college ready Math and Reading course completion (or AP, IB, CLEP, ACT, SAT or Accuplacer® - within the last five years). (see below)
2. Supplementary Vet Tech Application Phase I as follows (a-c, uploaded together to your application portal)
  - a. Student Information
  - b. Essay question answers written by hand, not typed
  - c. Math practice/demo
  - d. Clinical Experience Form with 24 hours of observation – signed by the DVM, scanned and submitted by applicant
3. Supplementary Application Phase II as follows, emailed to you upon submission of Vet Tech Application Phase I. submit a-b via email to [Jshaw3@coloradomtn.edu](mailto:Jshaw3@coloradomtn.edu)
  - a. Immunization record including MMR, Tetanus, and Rabies (Rabies Vaccination is comprised of 2 doses that can be administered the first and second week of classes at the CMC at the Rabies Clinic for a total of \$800, put on your CMC bill)
  - b. Proof of submission of background check (receipt)

The program begins each fall semester and is limited to 32 students. Applications are reviewed on a rolling basis until the cohort is full. The Vet Tech program is academically rigorous. In addition to your coursework you should be spending a minimum of 2 hours per credit hour studying.

### Registration, Pre Admission Meeting, and Orientation

All admitted incoming students must attend New Student Registration virtually on July 28 from 9-11am via Zoom. Please sign up for New Student Registration [HERE](#) on March 1. The additional Pre Admission Meeting will be held on August 4 from 9-10am virtually on Zoom, to go over program requirements and expectations. A link will be emailed to you in July.

All first year vet tech students are **required** to participate in the Veterinary Technology Orientation meeting. This mandatory meeting is held from 10am-noon on Friday, August 18, 2023.

## 1. Student Information:

Name \_\_\_\_\_  
*Last First Middle*

Current Mailing Address:

\_\_\_\_\_  
*Street, Route, PO Box Number Apt. Number*

\_\_\_\_\_  
*City State Zip Country*

Telephone Numbers:

(\_\_\_\_) \_\_\_\_\_ (\_\_\_\_) \_\_\_\_\_ (\_\_\_\_) \_\_\_\_\_  
*home work cell*

Email address:

\_\_\_\_\_

I certify that the information furnished is complete and correct.

\_\_\_\_\_  
*Student Signature*

## College Ready Transcripts or Scores in Reading, Writing, and Mathematics Information

Submit the following in your CMC Application Portal.

Transcripts (High School or College) with proof of completed courses at the college level (100 level or above, with C or above) OR

Take the following tests with appropriate scores below. CMC offers Accuplacer testing [HERE](#).

Academic Area	Accuplacer (Next Generation) Score	Accuplacer (Classic) Score	ACT Score	SAT Score
Reading	246+	80+	17+	470+ (Verbal)
Writing	246+	95+	18+	470+ (Verbal)
Math	Quant Reasoning 240-300	Elementary Algebra 61+	19+	500+

If you do not meet the proficiency requirements in all three Academic Areas, you must enroll in a college readiness course or retake the appropriate test. You are welcome to change your application at CMC to another program, but admission to the CMC Vet Tech program is not guaranteed.

## 2. Essay Questions:

In your own words and handwriting, answer the following questions as completely and specifically as possible and limit each response to between 100 and 150 words. Answers must be written in handwriting, typed answers will not be accepted.

1. What are the responsibilities of a credentialed veterinary technician?
2. Why have you decided to pursue a career in veterinary technology?
3. What personal qualities do you have that will help you succeed as a credentialed veterinary technician?

## 3. Math Packet:

The ability to accurately calculate drug doses and prepare medications (medical math) is a crucial skill for the credentialed veterinary technician. We want to know where you are currently with your basic math skills. Please return the math assessment as part of your VT application. Show your work, submit extra papers if necessary. They will NOT be graded and will be used by our program faculty.

This assessment will help you determine your readiness for the math portion of the Veterinary Technology Program. The problems in Parts I and II are representative of the skills you should possess upon entry into the program. Part III provides a selection of the types of problems you will learn to solve in Math for Veterinary Technicians (VET 1003) during your first semester in the program. You should solve the problems in Part I without the use of a calculator but feel free to use a calculator for the problems in Part II. Please show your work.

**Veterinary Technology Program Math Assessment: Part I**

1) Reduce  $16/48$  to its lowest term. Answer = \_\_\_\_\_

2) Add  $1/2 + 4/5 + 1/20$ . Answer = \_\_\_\_\_

3) Multiply  $3/4 \times 6/8$ . Answer = \_\_\_\_\_

4) Multiply  $9/5 \times 3/4$ . Answer = \_\_\_\_\_

5) Divide  $4/3 \div 7/16$ . Answer = \_\_\_\_\_

6) Divide  $3\frac{1}{2} \div 3/4$ . Answer = \_\_\_\_\_

7) Regarding the number 6.189, which numeral is in the thousandth place? Answer = \_\_\_\_\_

8) Round off the number 8.4671 to the nearest hundredth. Answer = \_\_\_\_\_

9) Add  $26.71 + 0.067 + 1.1956$ . Answer = \_\_\_\_\_

10) Subtract  $25.0681 - 13.918$ . Answer = \_\_\_\_\_

11) Multiply  $14.63 \times 7.71$ . Answer = \_\_\_\_\_

12) Convert 1.25 to a fraction. Answer = \_\_\_\_\_

13) Convert  $5/8$  to a percentage. Answer = \_\_\_\_\_

14) What is 35% of 100? Answer = \_\_\_\_\_

## Veterinary Technology Program Math Assessment: Part II

15) What is 30% of 90? Answer = \_\_\_\_\_

16) 40 is what percent of 250? Answer = \_\_\_\_\_

17) 7 is what percent of 49? Answer = \_\_\_\_\_

18) 50% of what number is 150? Answer = \_\_\_\_\_

19) 18.6% of what number is 142? Answer = \_\_\_\_\_

20) Convert 98.6° Fahrenheit to the equivalent degrees Celsius. The equation is:  $^{\circ}\text{C} = 5/9 (^{\circ}\text{F} - 32)$ .  
Answer = \_\_\_\_\_

## **Math Assessment Part III**

1) You need to make 200ml of a 1% solution from a 3:75 stock solution. How much stock solution will you use? How much diluent will you use?

Answer:

2) You've been instructed to give your 25# canine patient penicillin-G at a dosage of 40,000U/kg. The vial is labeled 300,000U/ml. What volume of penicillin-G will you administer to your patient?

Answer:

3) A saline solution was prepared by dissolving 4g of NaCl in 550 ml of diluent. What percent of this solution is NaCl?

Answer:

4) Your patient is an 88# dog who is in a good bit of pain, and the DVM has ordered that she receive the **maximum dose** of Torbugesic-SA®. The range of dosages for a dog is 0.2mg/kg to

Answer:

0.4mg/kg SQ. The concentration of this drug is 0.2%. How many mls of this medication do you administer to your patient?

5) Your patient needs to be on Butorphanol for the next 5 days. She weighs 6.6#, and the dosage is 1 mg/kg. The tablets in your pharmacy are 1mg tabs. She needs to receive this medication q8h for 5 days. How many tablets do you dispense to fill this prescription?

Answer:

6) You need to give 4.5L of Lactated Ringers Solution to your 1200# equine patient over the next 15 hours. Your infusion set has a drip factor of 20 gtt/ml. What is your drip rate **per 15 seconds**?

Answer:

7) Your canine patient needs 750 mg of aspirin PO. You have 5.8gr tablets on hand. How many aspirin tablets do you give this dog?

Answer:

8) You have been asked to administer 40g of glucose PO to a foal. You must provide this treatment in a 6% solution, but your stock solution is 10%. How many mls of stock solution are required? How many mls of diluent are required?

Answer:

9) The medical chart indicates that you are to add 9mEq of KCl to a 1L bag of fluids. The vial of KCl is labeled 20mEq/ml. How many ml will you add to the bag?

Answer:

## 4. Clinical Experience:

Colorado Mountain College requires all prospective vet tech students to spend a minimum of 24 hours working in, volunteering with, or observing in a veterinary clinical setting, actively shadowing a credentialed veterinary technician. This must be completed prior to attending the Veterinary Technology Program. Our intent is to help our students understand exactly what it is that vet techs do during a typical day at the veterinary hospital. ***The enclosed “Veterinary Clinical Experience Form” (last page of this packet) must be signed by the supervising veterinarian and submitted with your Vet Tech Application Phase I packet.***

### Recommended CVT Tasks to Observe

The following tasks are commonly performed by credentialed veterinary technicians in private practice. During your hours of clinical observation, we recommend that you observe as many of these as possible, with the understanding that it may not be possible to witness them all. Do not feel limited by this list as there are many other valuable duties performed by experienced veterinary technicians.

1. Communicating with and educating clients:
  - a. In the exam room
  - b. At the front desk
  - c. On the telephone
2. Performing laboratory procedures
3. Preparing prescription medications
4. Calculating drug and anesthetic doses
5. Inducing anesthesia, monitoring a patient under anesthesia and recovering a patient from anesthesia
6. Prepping a patient for surgery, assisting in surgery and post-op care of a patient
7. Performing a dental prophylaxis
8. Recording information in a medical record and/or drug log
9. Collecting blood samples and IV, IM and SQ injections
10. Administering various treatments and/or patient care
11. Taking diagnostic radiographs
12. Restraining patients for procedures

## Advice for Vet Tech (VT) students & the Clinical Experience Requirement

### **Selecting a veterinary hospital:**

- Do you have pets? If so, try that hospital first
- Try the bigger practices with more doctors and technicians
- Not all vets are as welcoming as others, so be polite and persistent

### **Before you visit the veterinary hospital:**

- Realize that you are asking for a favor; perhaps from a busy, complete stranger
- Vets tend to be protective of their business and clients. In the eyes of the clients, you will be seen as a representative of the practice. Look and act your best.
- When you arrive be sure that you are well dressed, well-groomed and polite.
- Look people in the eye and politely introduce yourself
- Consider removing facial piercings and covering tattoos. Veterinary medicine is a conservative field and like it or not, first impressions matter.
- Call a few days prior to let them know when you are coming in, for example at “10AM on Wednesday”. Arrive 5 minutes before the proposed meeting time. Do not be late!

### **The day of your initial visit to the hospital:**

- You may not get to meet the veterinarian. Interact politely with whomever you meet – the receptionist, technician, etc.
- Look people in the eye and slowly explain your goal – that you are attending vet tech school in the fall at CMC and want to experience some time at the hospital to be sure it is the right path for you.
- **Be sure they realize that we are not asking you to actually do anything – only watch, listen and smell what is going on.**
- Take a copy of the “Veterinary Clinical Experience Form” with you to leave for the doctors/practice manager to read. They may not have the time during your visit to decide whether they want to open their practice to you or not. Simply leave the form with them and explain that you will follow-up with them in a couple of days.
- Say please and thank you

### **During your clinical experience:**

- Dress appropriately and arrive on time.
- Ask the staff where they'd like you to stand when watching procedures.
- Do not pet any animal without asking permission first.
- Ask questions, but wait for an appropriate time; i.e., not in the middle of a delicate procedure or in front of a client.
- Do not talk too much.
- It's fine to volunteer to help, but only perform duties they've asked or given you permission to do.
- Observe everything, but pay particular attention to the duties of the veterinary technician(s).
- Take some notes or journal about your experience.
- When your observation hours are complete:
  - Be sure to thank them for their time and for sharing their knowledge of the Veterinary Medicine world with you.
  - A handwritten thank you note is always appreciated.



# Policy on Essential Functions for Veterinary Technology

## Physical and intellectual requirements

The field of veterinary technology is both intellectually and physically challenging. The American with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973 ensure that qualified applicants have the ability to pursue program admission; however, the applicant must meet the essential skills and technical standards to perform functions required of the program and profession. Every student will be held to the same standards with or without reasonable accommodations. Students within the program must not pose a threat to the well-being of patients, other students, staff or themselves.

- Vision, with or without correction, must allow the determination of minute areas of detail, very small variations in color and adequate depth perception (size, shape and texture), including differentiation of details as viewed through a microscope. Visual ability must be sufficient for observation and assessment necessary in nursing care both from a distance and close by in order to recognize physical status and non-verbal responses including behaviors.
- Speech and hearing must permit clear and effective communication with colleagues, clients, faculty and staff without lip reading. Auditory ability must be sufficient to monitor and assess health status, including auscultation of heart and lungs, and hear equipment alarms and warning sounds from animals and humans of impending danger or injury.
- Students must be able to read, write, speak and report accurately and effectively in English.
- Students must be able to comprehend and carry out complex written and oral directions given in English.
- Students must possess the physical ability to tolerate walking and standing for sustained periods of time, be capable of lifting and/or carrying up to 50 pounds from floor to waist level frequently, and be capable of handling, positioning, and restraining live animals of small and large animal species.
- Students must be able to move his/her entire body a distance of no less than three meters within two seconds of a signal to do so, to move from danger while handling animals in confined spaces.
- Students must possess fine motor movements in order to perform the *essential functions* of the profession. This includes the dexterity to manipulate small equipment, adjust resistance on equipment, manage syringes, catheters, and common surgical instruments.
- Students must possess tactile ability sufficient for physical assessment and to perform nursing duties in a timely manner. Examples include performing palpation during physical exams, administering oral, intramuscular, subcutaneous, and intravenous medication, insert and remove tubes and perform wound care.
- Students should be able to have sustained contact with multiple species of animals and be amenable to learning the safe handling, restraining, and working with these animals. An individual should not be allergic to domestic animals to the extent that would prohibit working in a facility that has them.
- Students must be able to work around strong chemicals.
- Students must be able to function in a structured environment within significant time constraints.
- Students must possess a willingness to assist with and perform a wide variety of routine medical, surgical, and diagnostic procedures common to the veterinary setting; including humane euthanasia.
- Students must be able to complete required tasks/functions under stressful conditions, including emergency situations.
- Students must demonstrate socially appropriate behavior; maintain cleanliness and personal grooming consistent with close human and animal contact.
- Students must be able to progress toward minimal supervision as they advance through the program.
- Students must be able to interact appropriately with clients and all members of the veterinary healthcare team.
- Students must be at least 18 years of age and have a high school diploma or its equivalent.

Students receiving accommodations for classes or for any other program related purpose must report the accommodation to the Program Director and individual instructors prior to the start of each semester. It is the students' responsibility to notify the Veterinary Technology Program of any necessary accommodation for disability. Our Access Coordinator can be reached at (970) 947-8256.

# Veterinary Clinical Experience Form

Dear Doctor,

First-hand experience in a veterinary practice helps potential Veterinary Technology students better understand the demands of our profession. We require all prospective CMC VT students to volunteer/job shadow and experience what credentialed technicians actually do at work. The goal of the experience is to help students make informed decisions about this degree and profession. Ideally the student will spend a significant portion of the time with your technical staff.

Sincerely,

Leslie Rockey, CVT

Veterinary Technology  
Program and Facilities Director  
[lrokey@coloradomtn.edu](mailto:lrokey@coloradomtn.edu)  
970-947-8238

## **Applicant: Submit this completed document with your application**

I, the undersigned veterinarian, licensed in the state of \_\_\_\_\_, acknowledge that \_\_\_\_\_ has spent at least 24 hours working in, observing and/or

*Print applicants name*

experiencing veterinary clinical settings. This exposure could best be described as: (circle one)

- Small animal practice
- Mixed animal practice
- Food and fiber animal practice
- Equine practice
- Other practice \_\_\_\_\_

*Please describe*

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*Name of practice/clinic*

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*Veterinarian Name (please print)*

*Veterinarian's Signature*

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*Mailing address*

*City*

*State*

*Zip*

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*Date*