Minnesota North College – Vermilion Campus Academic Year 2022-23
Veterinary Technician Associate of Applied Science (75 credits)

Program enrollment requires at a minimum, college-level placement in reading and writing, and placement into MATH 300.

First Year

FALL SEMESTER 2022 – 15 credits	Prerequisites	Credits	Hr Lc/Lb
CHEM 1200 – Introduction to Chemistry (MnTC Goals 3 & 10) OR CHEM 1521 – General Chemistry 1 (MnTC Goal 3)	(MATH 0200) (MATH 1220)	4	(3/2)
VTCH 1215 – Introduction to Veterinary Technology	(acceptance into Vet Tech program)	2	
VTCH 1225 – Medical Terminology	(acceptance into Vet Tech program)	2	
VTCH 1235 – Animal Husbandry	(acceptance into Vet Tech program)	4	(3/2)
VTCH 1345 – Comparative Anatomy & Physiology	(acceptance into Vet Tech program)	3	

SPRING SEMESTER 2023 – 15 credits	Prerequisites	Credits	Hr Lc/Lb
BIOL 1200 – Introduction to Biology (MnTC Goals 3 & 10)	(CLR)	4	(3/2)
VTCH 1315 – Medical Math	(CHEM1200)	1	
VTCH 1351 – Pharmacology 1	(VTCH1345; CHEM1200)	2	
VTCH 1355 – Animal Behavior	(VTCH1235)	2	
VTCH 2235 – Disease and Preventative Care	(VTCH1235/1345)	2	
VTCH 2411 – Small Animal Nursing 1	(VTCH1225/1235/1345)	4	(3/2)

Second Year

FALL SEMESTER 2023 – 15 credits	Prerequisites	Credits	Hr Lc/Lb
VTCH 1352 – Pharmacology 2	(VTCH1315/1351)	2	(2/2)
VTCH 2215 – Clinical Pathology	(BIOL1200; VTCH1345)	3	(2/2)
VTCH 2225 - Parasitology	(BIOL1200; VTCH1345)	3	(2/2)
VTCH 2335 – Introduction to Imaging	(VTCH1225/1235/1345)	3	(2/2)
VTCH 2412 – Small Animal Nursing 2	(VTCH2411)	2	(1/2)
VTCH 2540 – Emergency and Critical Care Nursing	(VTCH2411)	2	(1/2)

SPRING SEMESTER 2024– 15 credits	Prerequisites	Credits	Hr Lc/Lb
COMM 1220 – Interpersonal Communication (MnTC Goal 1)		3	
PHIL 1230 –Ethics (MnTC Goals 6-T/A & 9)	(CLR, CLW)	3	
VTCH 2315 – Veterinary Hospital Procedures	(VTCH1215/2235)	2	
VTCH 2510 – Surgical Nursing	(VTCH1315/1352/2412/2235)	4	(2/4)
VTCH 2530 - Anesthesiology	(VTCH1352/2412/1315)	2	(1/2)
VTCH 2570 – Kennel/Shelter Medicine		1	

SUMMER SEMSTER 2024 – 3 credits	Prerequisites	Credits	Hr Lc/Lb
VTCH 2220 – Veterinary Technician Internship	(VTCH2315/2510/2530/2570)	3	

Third Year

FALL SEMESTER 2024 – 12 credits	Prerequisites	Credits	Hr Lc/Lb
BIOL 2320 – Microbiology (MnTC Goal 3)	(BIOL1200 or BIOL1561 or BIOL 2371)	4	(3/2)
VTCH 2325 – Introduction to Laboratory Animals/Exotics	(VTCH1345/1352/2215/2235/2335/2412)	2	(1/2)
VTCH 2421 – Large Animal Nursing 1	(VTCH1235/1345/1352/2215/2235/2412)	4	
VTCH 2590 – National Exam Prep	(VTCH2220, and concurrent enrollment in VTCH 2325 and VTCH 2421)	2	

Students pursuing this program must enroll concurrently in all courses required for each semester. Minimum requirement for continuation in the program is a 2.0 or better cumulative GPA in the Vet Tech prefixed courses.

Program Description

The Veterinary Technology program is academically rigorous, and it takes a highly motivated individual to succeed. Students must have better than average ability to master a sizeable course load of scientific and medical material in a relatively short time.

In order for a student to be eligible to sit for the Veterinary Technician National Examination (VTNE) the student must graduate from an American Veterinary Medical Association (AVMA) accredited program. The AVMA has specific educational

criteria which must be taught in a program and which must be learned by students. In order to adequately cover the AVMA specified educational criteria, Veterinary Technician AAS degree programs average about 72 credits nationally, and slightly higher in Minnesota. Vermilion's Veterinary Technology AAS degree program includes 18 credits MnTC and 57 credits technical coursework in the field of Veterinary Technology. It is designed to include five semesters of academic coursework, and concludes with an internship the sixth semester. Vermilion is one of only a few AVMA accredited programs in Minnesota, and the only one in the northern portion of the state.

Occupational Titles

Graduates of this program take positions as a Veterinary Technician, Veterinary Assistant, or Laboratory Animal Caretaker.

Program Learning Outcomes

Graduates of this program will:

1. Know the role veterinary technicians play in protecting animal resources from exotic disease.
2. Have learned about various professional organizations and their value.
3. Realize the importance and value of continuing education.
4. Have learned about the role of veterinary technicians in a variety veterinary practices and other employment situations.
5. Have learned strategies of technician utilization and team concepts of health care delivery
6. Have developed communication and interpersonal skills for both client communication and working with the health care team.
7. Be competent using medical terminology, both verbally and in writing.
8. Familiarize, recognize, and identify the species and breeds likely to be encountered in veterinary practice, their behavior and husbandry needs, and basic restraint of these animals.
9. Have an understanding of the principles of feeding and nutritional requirements of a variety of domestic species.
10. Have mastered the mathematics required for calculating dosages and using English and metric units of measurement.
11. Have learned about a wide variety of drugs and medications and their proper use and application.
12. Have learned the tissues and organs (anatomy) and their functions (physiology) of a variety of domestic animal species.
13. Be proficient with basic laboratory techniques used for analysis of blood, urine, and cytological samples.
14. Have been taught about safety issues consistent with the CVTEA Statement on Safety with course work emphasis on zoonoses and occupational safety.
15. Have learned the common diseases and preventative care measures for a variety of domestic species.
16. Have learned management programs for groups/herds of domestic species.
17. Understand concepts of vaccination and basic immunology.
18. Have developed an understanding of basic economics in veterinary practice, including billing, ordering supplies and inventory maintenance.
19. Have been introduced to veterinary office management and elementary computer skills.
20. Understand humane care, and euthanasia techniques, of various domestic species.
21. Have been exposed to a variety of laboratory and exotic species, their husbandry, and handling techniques.
22. Have been introduced to safe and proper use of imaging modalities including x-ray and ultrasound.
23. Be familiar with all facets of surgical nursing and assisting, including instrumentation.
24. Be competent with all phases of anesthesia including induction, maintenance, and monitoring.
25. Demonstrate competency with gas anesthesia machines.
26. Have performed a necropsy, collected tissue samples, and disposed of remains.

Program Faculty Contact

Jess Kainz (jessica.kainz@minnesotanorth.edu or 218-235-2151)

AASC Approval Date: 12-20-21
Document Updated: 06-16-2022