

Madison Area Technical College Veterinary Technician

Effective: 2011-2012

Program Number: 10-091-1

Associate in Applied Science Degree

Agriculture & Natural Resources Program Cluster

Center for Agriscience and Technologies

Program offered at Madison Campuses

For information call: (608) 246-6800 or
(800) 322-6282 Ext. 6800

About the Program

Students are taught the skills and procedures to effectively contribute to the health and well being of veterinary patients. Veterinary technicians, while always working under the supervision of a veterinarian, provide many services. Routine duties include restraint of animals, sample collection, nursing care (IV catheter placement, bandage application, medication administration, etc.), feeding of animals, record keeping, office procedures, and client education and communication. Other skills include administration of anesthesia, surgical nursing, radiographic procedures, dental prophylaxis, clinical pathology procedures and medication preparation. This job requires the physical strength to lift and carry 50 pounds, the ability to distinguish colors, and to have good vision and good hearing.

Upon completion of the program, graduates are eligible to take the Veterinary Technician National Exam (VTNE) administered by the Veterinary Examining Board of the Wisconsin Department of Safety and Professional Services. Receiving a passing score on the VTNE permits the use of the title of Certified Veterinary Technician.

This program is accredited by the American Veterinary Medical Association's Committee on Veterinary Technician Education and Activities.

A completed packet consists of the completed application form, \$30 application fee (if not previously paid), high school transcripts, GED/HSED test scores, college transcript(s) and ACT/COMPASS test scores. An incomplete packet will be returned without being considered for admissions. If the transcripts were previously submitted, a new copy(s) needs to be included with the admissions packet.

Unique Requirements for Admission

1) High school graduation or equivalency; 2) high school and post-secondary transcripts; 3) one year of high school algebra, biology and chemistry with a grade of C or better; and 4) satisfactory score on ACT test (or COMPASS or equivalent assessment test prior to admission).

It is recommended that applicants obtain occupational experience with animals prior to applying for admission. Applicants without algebra, biology and chemistry can take these courses at Madison College; however, they must complete them by the end of spring semester for admission the following fall. Courses in accounting, agriculture, math, keyboarding and computer skills may be helpful.

Unique Requirements for Graduation

To succeed in the program, a student must receive a grade of C or higher in all program courses; students who fail to do so, or withdraw while the course is in progress, *may re-enroll in that course only once.*

Curriculum

The courses listed below outline the requirements for graduation for students entering this program in the 2011-2012 academic year. Requirements for graduation may vary depending on the semester in which a student is admitted to their program.

Current/continuing students should consult their degree progress report available through their student center account for specific graduation requirements. Program requirements are subject to change.

FIRST YEAR

First Semester		Credits	Hrs/week Lec-Lab
10-091-105	Occupational Preparation	1	1-0
10-091-123	Laboratory Animal Science 1	2	1-3
10-091-170	Veterinary Medical Terminology	2	2-0
10-091-171	Animal Care and Management 1	3	2-3
10-801-195	Written Communication	3	3-0
10-806-105	<u>Principles of Animal Biology</u>	4	3-2
Semester Total		15	

Second Semester

10-091-107	Animal Disease 1	2	2-0
10-091-109	Pharmacology 1	2	1-2
10-091-120	Veterinary Clinical Pathology 1	3	1-4
10-091-131	Veterinary Office Procedures 1	1	1-0
10-091-172	Animal Care and Management 2	3	2-2
10-806-178	<u>Life Science Chemistry</u>	5	4-3
Semester Total		16	

Summer Session

10-091-158	Internship (8 weeks/288 hours minimum)	4	40
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SECOND YEAR

First Semester

10-091-108	Animal Disease 2	2	2-0
10-091-124	Veterinary Clinical Pathology 2	3	2-3
10-091-127	Surgical Nursing 1	3	2-3
10-091-128	Animal Nursing 1	2	1-3
10-091-132	Veterinary Office Procedures 2	1	0-2
10-091-140	Animal Anatomy and Physiology 1	4	2-4
10-801-197	<u>Technical Reporting</u>	3	3-0
Semester Total		18	

Second Semester

10-091-110	Pharmacology 2	2	1-2
10-091-121	Veterinary Clinical Pathology 3	3	1-4
10-091-122	Advanced Topics in Clinical Pathology	1	1-0
10-091-152	Surgical Nursing 2	2	1-3
10-091-153	Diagnostic Imaging	3	1-4
10-809-197	Contemporary American Society	3	3-0
10-809-199	<u>Psychology of Human Relations</u>	3	3-0
Semester Total		17	

Recommended Additional Courses

10-091-114	Animal Behavior	2 credits
10-091-117	Exotic Animal Husbandry	2 credits
10-091-129	Clinical Rotation	2 credits

Note: Students are assessed for correct placement in English or mathematics courses based on their scores on the ACT/COMPASS test or on completion of the appropriate prerequisite(s). Additionally, there may be courses in other subject areas that may use COMPASS scores as prerequisites when reading, writing, chemistry, math, or critical thinking competencies are required.



Program Courses

10-091-105 Occupational Preparation 1 credit

Acquaints new students with the general competencies necessary to be employed as veterinary and laboratory animal technicians. Addresses the student's personal safety, health and stress management. Discusses memberships in professional organizations, certification, licensing, and internship preparation. Briefly discuss animal loss and bereavement.

10-091-107 Animal Disease 1 2 credits

Covers etiology, symptoms, transmission, diagnosis, prevention and control of common diseases that are transmissible from animals to humans as well as animals to animals. Reporting requirements and handling of diagnostic samples involving high-exposure diseases are also discussed. Prerequisite: 10-091-170.

10-091-108 Animal Disease 2 2 credits

Covers etiology, symptoms, transmission, diagnosis, prevention and control of common diseases in a wide variety of animal species. Toxic plants and other substances, as well as reporting and monitoring of federally regulated diseases will also be discussed. Prerequisites: 10-091-107 and completion of or concurrent enrollment in 10-091-171 and 10-091-123.

10-091-109 Pharmacology 1 2 credits

Introduction to drugs and other substances used in veterinary medicine. Emphasizes drug usage, client education, measurement, administration, and safe storage of antiparasitics, antiinflammatories, antibiotics and nervous system drugs. Prerequisites: 10-091-170 and 10-091-171.

10-091-110 Pharmacology 2 2 credits

Introduction to drugs and other substances used in veterinary medicine. Emphasizes drug usage, client education, measurement, administration, and safe storage of cardiac, respiratory, gastrointestinal, chemotherapy, ophthalmic and other drugs. Prerequisites: 10-091-109 and 10-091-158.

10-091-120 Veterinary Clinical Pathology 1 3 credits

Students are introduced to laboratory equipment, elementary laboratory procedures and the principles of microscopy, parasitology, urine analysis, hematology and bacteriology. Prerequisites: 10-091-170 and 10-091-171.

10-091-121 Veterinary Clinical Pathology 3 3 credits

Continues to expand upon the principles, procedures and skills learned in Vet. Clinical Pathology 1 and 2, including hematology, parasitology, urine analysis, microbiology, cytology, mycology, virology, serology, immunology and blood chemistries. Will continue to expand upon the use of automated laboratory procedures for hematology and clinical chemistries. Prerequisites: 10-091-124, 10-091-158 and completion of or concurrent enrollment in 10-806-178.

10-091-122 Advanced Topics in Clinical Pathology 1 credit

Current topics and advanced diagnostic procedures in clinical pathology. Prerequisites: 10-091-124 and completion of or concurrent enrollment in 10-091-121.

10-091-123 Laboratory Animal Science 1 2 credits

Includes the history of laboratory animal technology and laboratory animal uses. Emphasizes the Animal Welfare Act and other regulations pertaining to the care of laboratory animals. Covers laboratory animal husbandry in depth as students provide care and treatment for a colony of laboratory animals. Prerequisites: completion of or concurrent enrollment in 10-091-105, 10-091-170 and 10-091-171.

10-091-124 Veterinary Clinical Pathology 2 3 credits

Second in sequence of three courses. Students utilize laboratory equipment, including the microscope and complete selected laboratory procedures, including parasitology, mycology, urine analysis, hematology, serology, bacteriology, cytology and blood chemistries. Prerequisites: 10-091-120 and 10-091-158.

10-091-127 Surgical Nursing 1 3 credits

This introductory course to surgical nursing covers surgical instruments, package prep, patient prep, anesthesia, monitoring and post-op care. Prerequisites: 10-091-158 and completion of or concurrent enrollment in 10-091-140.

10-091-128 Animal Nursing 1 2 credits

Designed to build nursing skills learned in 10-091-172, Animal Care & Management 2, with emphasis on large animal anesthetic techniques, surgical preparation and monitoring. Prerequisites: 10-091-181 and completion of or concurrent enrollment in 10-091-127.

10-091-131 Veterinary Office Procedures 1 1 credit

Covers development of appropriate public, client and staff relations; telephone etiquette, making appointments, managing records, client services and education, and personal grooming and attire. Legal requirements for record keeping as well as an introduction to the rules and regulations governing the veterinary and laboratory animal technician will also be discussed. Prerequisites: 10-091-170 and 10-091-105.

10-091-132 Veterinary Office Procedures 2 1 credit

A computer-based course covering office documents, patient records, billing, estimates, etc., using veterinary office software. Explores in-depth the rules and regulations governing the practice of veterinary technology in Wisconsin. Prerequisites: 10-091-131 and completion of or concurrent enrollment in 10-091-171.

10-091-140 Animal Anatomy and Physiology 1 4 credits

Lectures will emphasize terminology, functions, location, identification and organization of anatomical structures that are parts of body systems. Students dissect and study cadavers and tissue specimens from common domestic species. Prerequisite: 10-806-105 or equivalent and completion of or concurrent enrollment in 10-091-171.

10-091-152 Surgical Nursing 2 2 credits

Focuses on the continuation of basic surgical nursing and anesthesia skills. Also covers basic dental prophylaxis, dental radiography and cardiopulmonary resuscitation. Prerequisite: 10-091-127.

10-091-153 Diagnostic Imaging 3 credits

Explores concepts in veterinary radiology, electrocardiography, ultrasound, endoscopy, and other special imaging procedures and technologies. Prerequisites: 10-091-127 and 10-091-140.

10-091-158 Internship 4 credits

Internship (work experience) is a very important phase of practical training for students enrolled in the program. It generally follows the second semester of classwork in the college summer recess and is conducted during a period of eight weeks (or 320 hours). The student's work is supervised by assigned instructors. Prerequisite: completion of all first-year program courses.

10-091-170 Veterinary Medical Terminology 2 credits

Teaches acceptable veterinary medical terminology for common clinically recognizable diseases, operations, systems and procedures, as well as common medical signs, abbreviations and colloquial vocabulary.

10-091-171 Animal Care and Management 1 3 credits

Focuses on handling and husbandry of the animals most commonly seen in veterinary medicine. Includes animal behavior, nutrition and healthcare. Prerequisites: completion or concurrent enrollment in 10-091-170, 10-806-105 and 10-091-105.

10-091-172 Animal Care and Management 2 3 credits

Focuses on handling, medical nursing and disease processes of the animals most commonly seen in veterinary medicine. Prerequisites: 10-091-170, 10-091-171 and 10-091-105.

Career Potential:

- **Veterinary Technician**
- **Laboratory Animal Technician**

Technicians are usually employed by: small/companion, large animal/equine, mixed animal or exotic animal practices or humane societies. Also, can help with care and use of animals in research environments.

With additional education and/or work experience, graduates may find employment as:

- **Hospital Managers**
- **Facility Managers**
- **Pet Food Company Representative**
- **Drug Company Representative**

More detailed and updated information on this program may be available at: madisoncollege.org. The college reserves the right to make changes in the regulations and courses announced in this publication without notice.

Madison Area Technical College provides equal opportunity in education and employment.