

# Veterinary Science (VETS)

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**VETS 101. Student Success Techniques: Veterinary Technology. 1 Credit.**

This course is designed to ease the transition for new students. Students will learn skills and techniques used by successful college students. Topics will include: an overview of the Veterinary Technology Program and profession, professional communication, career opportunities, as well as student success basics.

**VETS 115. Medical Terminology for the Paraprofessional. 1 Credit.**

Medical terminology explored through a systematic study of word parts and the combinations used to build medical terms.

**VETS 125. Animal Restraint. 2 Credits.**

Study of behavioral characteristics and handling techniques of farm, companion, and laboratory animals.

**VETS 135. Anatomy and Physiology of Domestic Animals. 3 Credits.**

Introduction to the anatomy and physiology of common domestic mammals. Emphasis on how the body's normal structures and functions contribute to health.

**VETS 136. Anatomy and Physiology Laboratory. 1 Credit.**

To accompany VETS 135.

**VETS 194. Individual Study. 1-5 Credits.****VETS 196. Field Experience. 1-15 Credits.****VETS 199. Special Topics. 1-5 Credits.****VETS 249. Veterinary Hospital Information and Procedures. 2 Credits.**

Principles of veterinary hospital management and client relations/education. Prereq: Accepted into the professional portion of the Veterinary Technology program.

**VETS 255L. Veterinary Diagnostic Imaging Laboratory. 1 Credit.**

A laboratory course designed to supplement material covered in the associated VETS 255 lecture. Radiographic positioning, production, and processing will be covered, along with alternative imaging modalities. Prereq: Acceptance into the professional portion of the Veterinary Technology program. Co-req: VETS 255.

**VETS 255. Veterinary Diagnostic Imaging. 2 Credits.**

The study of diagnostic radiograph production, including: x-ray machine operation, dark room procedures, radiographic positioning, and radiation safety. Ultrasound and other forms of alternative imaging will also be discussed. Prereq: VETS 125, VETS 135, VETS 136, VETS 256 and acceptance into the professional Veterinary Technology program. Co-req: VETS 255L.

**VETS 265. Veterinary Nursing I. 2 Credits.**

Clinical procedures and instrumentation used in the day-to-day operation of a companion animal veterinary practice. Prereq: Must be accepted into the Veterinary Technical program. Co-req: VETS 265L.

**VETS 265L. Veterinary Nursing Lab I. 1 Credit.**

Hands on practice of clinical procedures and instrumentation use common in the day-to-day operation of a veterinary practice. Co-req: VETS 265 and acceptance into the Veterinary Technology program.

**VETS 267. Veterinary Nursing II. 2 Credits.**

Introduction and knowledge expansion of the clinical procedures, instrumentation, animal behaviors, sample collection, and disinfection techniques used in the day-to-day operation of a veterinary facility. Co-req: VETS 267L. Prereq: VETS 265, VETS 265L.

**VETS 267L. Veterinary Nursing Lab II. 1 Credit.**

Introduction and knowledge expansion of the hands on clinical procedures, instrumentation, animal behaviors, sample collection, necropsy techniques, and disinfection techniques used in the day-to-day operation of a veterinary facility. Prereq: VETS 265, VETS 265L. Co-req: VETS 267.

**VETS 291. Seminar. 1-5 Credits.****VETS 292. Global Practicum: Study Abroad. 1-15 Credits.**

Pre-Arranged study at accredited foreign institutions (study abroad), domestic institutions (National Student Exchange) or on approved study abroad programs. Pre-requisite: Sophomore standing and prior approval by International Student and Study Abroad Services and major department. Graded 'P' or 'F' (Undergraduate), or 'S' or 'U' (Graduate).

**VETS 294. Individual Study. 1-5 Credits.****VETS 296. Field Experience/Practicum. 1-15 Credits.****VETS 299. Special Topics. 1-5 Credits.****VETS 367. Principles of Companion Animal Dentistry. 1 Credit.**

Basic principles of veterinary dentistry. Including dental anatomy, physiology, pathophysiology, charting, and instrumentation. Techniques of routine dental prophylaxis, periodontal disease therapies, client education, and preventative oral care will be emphasized. Co-req: VETS 367L and must be a student in the professional portion of the Veterinary Technology program.

**VETS 367L. Principles of Companion Animal Dentistry Lab. 1 Credit.**

Basic principles of veterinary dentistry lab. Including dental anatomy, physiology, pathophysiology, charting, and instrumentation. Techniques of routine dental prophylaxis, periodontal disease therapies, client education, and preventative oral care will be emphasized. Co-req: VETS 367.

**VETS 369. Companion Small Mammal and Exotic Animal Health and Husbandry. 2 Credits.**

Students will be introduced to the biology, reproduction, and husbandry requirements of domestic small mammal and exotic species. The role these species play in the human animal bond will also be addressed. Prereq: VETS 135. Restrictions: Students must be of sophomore status and majoring or minoring in Veterinary Technology, Animal Science, or Equine Science.

**VETS 369L. Companion Small Mammal and Exotic Animal Health and Husbandry Laboratory. 1 Credit.**

A laboratory course for Veterinary Technology students which is designed to supplement material covered in the associated lecture, VETS 369. Handling, restraint, nursing, and management techniques relating to small mammal and exotic species will be covered. Prereq: VETS 135, VETS 136, VETS 256. Co-req: VETS 369. Restrictions: Current status in the professional curriculum of the NDSU Veterinary Technology Program is required.

**VETS 379. Global Seminar. 1-6 Credits.**

NDSU instructed experience or field study in a foreign country. Conducted in English for residence credit. Pre-requisite: Prior approval by International Student and Study Abroad Services and major department. May be repeated. Standard Grading.

**VETS 385. Veterinary Parasitology. 2 Credits.**

Study of parasitology principles commonly dealt with in veterinary medicine. Co-req: VETS 385L and acceptance into the professional portion of the Veterinary Technology program.

**VETS 385L. Veterinary Parasitology Lab. 1 Credit.**

Study of parasitology procedures commonly utilized in veterinary medicine. Co-req: VETS 385 and admission to the professional portion of the Veterinary Technology program.

**VETS 386. Veterinary Hematology. 2 Credits.**

Study of hematology in mammals with a veterinary medicine emphasis. Co-req: VETS 386L and acceptance into the professional portion of the Veterinary Technology program.

**VETS 386L. Veterinary Hematology Lab. 1 Credit.**

Study of hematology procedures commonly utilized in veterinary medicine. Co-req: VETS 386 and admission to the professional portion of the Veterinary Technology program.

**VETS 387. Veterinary Clinical Pathology. 2 Credits.**

A course regarding the study of urine analysis, cytology and serum chemistry principles and procedures commonly utilized in veterinary medicine. Co-req: VETS 387L and acceptance into the professional portion of the Veterinary Technology program.

**VETS 387L. Veterinary Clinical Pathology Laboratory. 1 Credit.**

Hands-on course regarding the study of urine analysis, cytology and serum chemistry principles and procedures commonly utilized in veterinary medicine. Co-req: VETS 387 and acceptance into the professional portion of the Veterinary Technology program.

**VETS 391. Seminar. 1-5 Credits.**

**VETS 392. Global Practicum: Study Abroad. 1-15 Credits.**

Pre-Arranged study at accredited foreign institutions (study abroad), domestic institutions (National Student Exchange) or on approved study abroad programs. Pre-requisite: Sophomore standing and prior approval by International Student and Study Abroad Services and major department. Graded 'P' or 'F' (Undergraduate), or 'S' or 'U' (Graduate).

**VETS 394. Individual Study. 1-5 Credits.**

**VETS 399. Special Topics. 1-5 Credits.**

**VETS 455. Veterinary Applied Pharmacy Practices. 1 Credit.**

Practice of veterinary pharmacology including dose calculations, pharmacy terms, prescribing practices, drug dispensing, and regulations governing drug approval, prescribing and dispensing in veterinary practice. Co-req: VETS 457. Prereq: VETS 386 and admission to the professional portion of the Veterinary Technology program.

**VETS 456. Veterinary Pharmacology and Pharmacy Practice. 2 Credits.**

Use of drugs in veterinary medicine including commonly used drugs and drug classes and their indications, contraindications and therapeutic effects. Regulations affecting the prescribing and dispensing of drugs in veterinary medicine. Prereq: restricted to Pharmacy majors only.

**VETS 457. Veterinary Pharmacology. 2 Credits.**

Students will learn about veterinary drugs, how they work, and how they are used, so that students can safely, knowledgeably, and confidently administer and dispense drugs in veterinary practice. Co-req: VETS 455. Prereq: Acceptance into the professional portion of the Veterinary Technology program.

**VETS 460L. Veterinary Anesthesiology Lab. 1 Credit.**

Preparation for and assistance with veterinary surgical procedures. Provision of proper aftercare for veterinary surgical patients. Prereq: VETS 357, VETS 385, VETS 386 and students must be admitted to the professional portion of the Veterinary Technology program. Co-req: VETS 460.

**VETS 460. Veterinary Anesthesiology. 2 Credits.**

Preparation for and assistance with veterinary surgical procedures. Provision of proper aftercare for veterinary surgical patients. Prereq: VETS 357, VETS 385, VETS 386 and students must be admitted to the professional portion of the Veterinary Technology program. Co-req: VETS 460L. Restrictions: Must be a student in the professional portion of the Veterinary Technology program.

**VETS 461. Veterinary Surgical Nursing Techniques. 2 Credits.**

Preparation for and assistance with veterinary surgical procedures. Provision of proper aftercare for veterinary surgical patients. Prereq: Acceptance into the Veterinary Technology program. Co-req: VETS 461L.

**VETS 461L. Veterinary Surgical Techniques Laboratory. 1 Credit.**

Preparation for assistance with veterinary surgical procedures. Provisions of proper aftercare for veterinary surgical patients. Prereq: Acceptance into the Veterinary Technology program. Co-req: VETS 461.

**VETS 481. Ward Care/Clinic Care. 1 Credit.**

Supervised experience managing the care and feeding of Veterinary Technology Program animals and clinical veterinary facilities. May be repeated 4 times. Restrictions: Must be a student in the professional portion of the Veterinary Technology program.

**VETS 482. Large Animal Techniques. 2 Credits.**

Handling, restraint, nursing, and management techniques used in large animal veterinary practice. Primarily focused on cattle and horses. Prereq: VETS 256.

**VETS 482L. Large Animal Techniques Laboratory. 1 Credit.**

A laboratory course designed to supplement material covered in VETS 482. Handling, restraint, nursing, and management techniques used in large animal veterinary practice. Primarily focused on cattle and horses. Prereq: VETS 256. Co-req: VETS 482.

**VETS 483. Clinical Veterinary Practicum. 1 Credit.**

A case based course designed to pull together the knowledge learned in lectures and the skills taught in labs throughout the Veterinary Technology program. Restrictions: Must be accepted into the Veterinary Technology program.

**VETS 485. Veterinary Technology Externship 6-12. 6-12 Credits.**

Capstone experience for veterinary technology students. Continued development of skills through supervised work in a veterinary practice or other appropriate clinical setting. Refer to Animal Sciences for information regarding Veterinary Technology program.

**VETS 491. Seminar. 1-5 Credits.****VETS 492. Global Practicum: Study Abroad. 1-15 Credits.**

Pre-Arranged study at accredited foreign institutions (study abroad), domestic institutions (National Student Exchange) or on approved study abroad programs. Pre-requisite: Sophomore standing and prior approval by International Student and Study Abroad Services and major department. Graded 'P' or 'F' (Undergraduate), or 'S' or 'U' (Graduate).

**VETS 494. Individual Study. 1-5 Credits.****VETS 496. Field Experience. 1-15 Credits.****VETS 499. Special Topics. 1-5 Credits.**