Curriculum Outline:

<table>
<thead>
<tr>
<th>Course #</th>
<th>Required courses prior to admission</th>
<th>Credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 120</td>
<td>Principles of Biology I with Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHM 120</td>
<td>General Chemistry I with Lab</td>
<td>4</td>
</tr>
<tr>
<td>ENG 110 or 111 or 112</td>
<td>Freshman Composition or Composition &amp; Research or Technical Research and Writing</td>
<td>3</td>
</tr>
<tr>
<td>MTH 121</td>
<td>College Algebra</td>
<td>4</td>
</tr>
<tr>
<td>NAV 101 or higher</td>
<td>Intro to Navajo Language – Non-speakers</td>
<td>3</td>
</tr>
<tr>
<td>VET 090</td>
<td>Introduction to Veterinary Technology</td>
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First Semester (Fall)

<table>
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<tr>
<th>Course</th>
<th>Required courses prior to admission</th>
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<tbody>
<tr>
<td>VET 130</td>
<td>Veterinary Medical Terminology</td>
<td>1</td>
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<tr>
<td>VET 131</td>
<td>Navajo Veterinary Medical Terminology</td>
<td>1</td>
</tr>
<tr>
<td>VET 132</td>
<td>Veterinary Office Procedures</td>
<td>1</td>
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<tr>
<td>VET 134</td>
<td>Veterinary Anatomy and Physiology I</td>
<td>6</td>
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<tr>
<td>VET 136</td>
<td>Veterinary Nursing I</td>
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Second Semester (Spring)

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>VET 140</td>
<td>Veterinary Surgical Nursing</td>
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<tr>
<td>VET 142</td>
<td>Veterinary Pharmacology for Technicians</td>
<td>2</td>
</tr>
<tr>
<td>VET 144</td>
<td>Veterinary Clinical Laboratory Procedures I</td>
<td>3</td>
</tr>
<tr>
<td>VET 146</td>
<td>Veterinary Nursing II</td>
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<tr>
<td>VET 148</td>
<td>Animal Nutrition</td>
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<tr>
<td>VET 150</td>
<td>Veterinary Dentistry</td>
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Third Semester (Fall)

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>VET 230</td>
<td>Veterinary Medicine and Surgery</td>
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<tr>
<td>VET 232</td>
<td>Veterinary Anesthesiology</td>
<td>3</td>
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<tr>
<td>VET 234</td>
<td>Veterinary Clinical Laboratory Procedures II</td>
<td>4</td>
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<tr>
<td>VET 236</td>
<td>Veterinary Diagnostic Imaging I</td>
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Fourth Semester (Spring)

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>VET 240</td>
<td>Veterinary Diagnostic Imaging II</td>
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<tr>
<td>VET 242</td>
<td>Avian, Exotic, Lab Animal Husbandry and Handling</td>
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<tr>
<td>VET 244</td>
<td>Veterinary Clinical Laboratory Procedures III</td>
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<tr>
<td>VET 246</td>
<td>Veterinary Nursing III</td>
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<tr>
<td>VET 248</td>
<td>Veterinary Critical Care</td>
<td>2</td>
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<tr>
<td>VET 250</td>
<td>Veterinary Technician National Examination Review</td>
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Fifth Semester (Summer)

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<tr>
<th>Course</th>
<th>Required courses prior to admission</th>
<th>Credit hours</th>
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<tbody>
<tr>
<td>VET 260</td>
<td>Veterinary Technology Practicum I (12 weeks)</td>
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</table>

Minimum units for major: 69

Course Descriptions:

Core Veterinary Technology Courses

VET-130 (1 Credit)  
Veterinary Medical Terminology  
This course provides students with a foundation in the language of veterinary medicine, focusing on prefixes, suffixes, word roots and their combining forms. Prerequisites: BIO 120, CHM 120, ENG 110 or
111 or 112, MTH 121, NAV 101 or higher, and VET 090. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the fall semester.

VET-131 (1 Credit)  
**Navajo Veterinary Medical Terminology**
This course will provide a foundation in communicating and understanding Navajo veterinary medical terms and client communication. Prerequisites: BIO 120, CHM 120, ENG 110 or 111 or 112, MTH 121, NAV 101 or higher, and VET 090. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the fall semester.

VET-132 (1 Credit)  
**Veterinary Office Procedures**
This course will provide students with experience with commonly encountered clinical procedures with an emphasis on the role of the veterinary technician in the management of veterinary patients, records, laws and ethics, and client communication. This course will also introduce students to veterinary management software. Prerequisites: BIO 120, CHM 120, ENG 110 or 111 or 112, MTH 121, NAV 101 or higher, and VET 090. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the fall semester.

VET-134 (6 Credits)  
**Veterinary Anatomy & Physiology I**
This course provides background in the anatomy and physiology of animals. The course covers the structure and function of each body system, including skeletal, muscular, circulatory, integumentary, respiratory, cardiovascular, urogenital, reproductive, nervous, and endocrine. This course will also cover basic physiology principles, metabolism, digestion, acid-base balance, immunity, and unique characteristics of common domestic species. Applied laboratory experiences are included. Prerequisites: BIO 120, CHM 120, ENG 110 or 111 or 112, MTH 121, NAV 101 or higher, and VET 090. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the fall semester.

VET-136 (2 Credits)  
**Veterinary Nursing I**
This course will cover small animal patient assessment techniques (signalment, history, patient data), restraint, and husbandry. Prerequisites: BIO 120, CHM 120, ENG 110 or 111 or 112, MTH 121, NAV 101 or higher, and VET 090. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the fall semester.

VET-140 (2 Credits)  
**Veterinary Surgical Nursing**
This course provides familiarity with surgical instruments, surgical support equipment, and surgery room preparation. Prerequisites: VET-130, VET-131, VET-132, VET-134, and VET-136. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the spring semester.

VET-142 (2 Credits)  
**Veterinary Pharmacology for Technicians**
This course provides background in pharmacology principles, including topics such as: mechanism of drug action, types of drugs, pharmacy management, client communication, regulations, and calculations related to drug dosages. Prerequisites: VET-130, VET-131, VET-132, VET-134, and VET-136. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the spring semester.

VET-144 (3 Credits)  
**Veterinary Clinical Laboratory Procedures I**
This course will cover the biology, clinical appearance, laboratory handling, and laboratory diagnosis of parasitic disease and their zoonotic potential. Prerequisites: VET-130, VET-131, VET-132, VET-134, and VET-136. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the spring semester.
VET-146 (2 Credits)  
Veterinary Nursing II  
This course will cover small animal patient diagnostic specimen collection and therapeutic techniques. Prerequisites: VET-130, VET-131, VET-132, VET-134, and VET-136. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the spring semester.

VET-148 (2 Credits)  
Animal Nutrition  
This course provides a foundation in the principles of animal nutrition emphasizing the relationship between nutrition and health. The course focuses on the basic elements of nutrition including the major categories of nutrients, and their sources, digestion, and metabolism. Both large and small animal feeds and feeding will be covered. Prerequisites: VET-130, VET-131, VET-132, VET-134, and VET-136. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the spring semester.

VET-148 (1 Credit)  
Veterinary Dentistry  
This course will cover dental anatomy, physiology, and pathophysiology, routine prophylaxis including equipment, environment, instruments, supplies, radiology, and client education. Prerequisites: VET-130, VET-131, VET-132, VET-134, and VET-136. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the spring semester.

VET-230 (3 Credits)  
Veterinary Medicine and Surgery  
This course will cover common medical and surgical conditions of small and large animals with the emphasis on the role of the veterinary technician in the management of these cases. Prerequisites: VET-140, VET-142, VET-144, VET-146, and VET-148. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the fall semester.

VET-232 (3 Credits)  
Veterinary Anesthesiology  
This course provides an overview of the fundamentals of pre-anesthetic preparation, induction, anesthetic maintenance, post-operative care, and anesthesia monitoring for patients. The students will gain knowledge on anesthetic agents including their actions, side effects, and methods of delivery. Students will learn about anesthetic equipment, pain management, basic life support and emergency response procedures. Prerequisites: VET-140, VET-142, VET-144, VET-146, and VET-148. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the fall semester.

VET-234 (4 Credits)  
Veterinary Clinical Laboratory Procedures II  
This course will cover the biochemical parameters that characterize disease. Topics include sample collection, analysis of urine, blood, cytological samples, basic principles of anatomic pathology, and necropsy procedure. Prerequisites: VET-140, VET-142, VET-144, VET-146, and VET-148. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the fall semester.

VET-236 (2 Credits)  
Veterinary Diagnostic Imaging I  
This course will introduce students to the basic principles of radiology including the production of x-rays, radiation safety, diagnostic applications, equipment, darkroom procedures, the radiographic image, animal positioning and technique. An instruction to computed tomography, ultrasound, and endoscopy will be covered. Prerequisites: VET-140, VET-142, VET-144, VET-146, and VET-148. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the fall semester.

VET-240 (2 Credits)  
Veterinary Diagnostic Imaging II  
This course will provide hands-on experience utilizing radiographic equipment, positioning of animals for radiographs, developing a technique chart and utilizing dark room procedures. Prerequisites: VET-230,
VET-232, VET-234, VET-236, and VET-238. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the spring semester.

**VET-242 (2 Credits)**
**Avian, Exotic, Lab Animal Husbandry and Handling**
This course provides students with knowledge and skills in clinical procedures and focuses on exotic and laboratory animal husbandry, handling, restraint, and specific problems encountered with exotic and lab animals. Prerequisites: VET-230, VET-232, VET-234, VET-236, and VET-238. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the spring semester.

**VET-244 (3 Credits)**
**Veterinary Clinical Laboratory Procedures III**
This course will cover the biology, clinical appearance and laboratory diagnosis of bacterial and viral causes of veterinary disease, including zoonotic importance. Laboratory safety and maintenance of laboratory equipment will also be covered. Prerequisites: VET-230, VET-232, VET-234, VET-236, and VET-238. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the spring semester.

**VET-246 (2 Credits)**
**Veterinary Nursing III**
This course will cover large animal patient assessment techniques (signalment, history, patient data), restraint, husbandry, patient diagnostic specimen collection, therapeutic techniques, and dental techniques. Prerequisites: VET-230, VET-232, VET-234, VET-236, and VET-238. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered during the spring semester.

**VET-248 (2 Credits)**
**Veterinary Critical Care**
This course will provide instruction assessment, monitoring, and intervention with emergencies. The student will use knowledge of overall anatomy, physiology, disease, or injury to assist in veterinarian diagnoses and treatment. Prerequisites: VET-230, VET-232, VET-234, VET-236, and VET-238. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the spring semester.

**VET-250 (1 Credit)**
**Veterinary Technician National Examination Review**
This course will review the following topics in preparation for clinical practice and the Veterinary Technology National Exam (VTNE): Pharmacy & Pharmacology, Surgical Nursing, Dentistry, Laboratory Procedures, Animal Care and Nursing, Diagnostic Imaging, Anesthesia, Emergency Medicine/Critical Care, and Pain Management/Analgesia. Students will also learn test taking skills. Prerequisites: VET-230, VET-232, VET-234, VET-236, and VET-238. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the spring semester.

**VET-260 (3 Credits)**
**Veterinary Technology Practicum I**
This 12-week course provides students with the opportunity to supplement coursework with practical work experience in a veterinary setting under the supervision of a veterinarian and experienced personnel. Prerequisites: VET-240, VET-242, VET-244, VET-246, VET-248, and VET-250. Students must earn 75% or better to advance to the next level of courses in the major. This course is only offered in the summer semester.
General Education Courses

Course Descriptions:

BIO-120 (4 Credits)  
Principles of Biology I  
Topics covered in this course include impact biology, biological chemistry, molecular genetics, Mendelian inheritance, and embryology. The emphasis of the course is placed on development concepts. Lab included.  
Lab fee: $100.00.

CHM-120 (4 Credits)  
General Chemistry I  
This course introduces students to chemistry measurements, atomic structure, chemical reactions, gases, thermochemistry, and bonding. A lab is also included as part of the course. Prerequisite: MTH-120. Lab fee: $100.00.

ENG-110 (3 Credits)  
Freshman Composition  
This course is designed to refine reading, writing and analytical skills through a wide variety of literary offerings, and includes the completion of a series of essays. Vocabulary expansion and a review of English grammar and mechanics are incorporated components of this course. Students will be introduced to basic research skills for conducting Internet and library research and learn how to credit their research sources using accepted reference styles such as APA and/or MLA. Opportunities to practice and improve oral communication skills will also be incorporated throughout the course. Prerequisite: A grade of C or higher in ENG-098 or satisfactory placement scores.

MTH-121 (4 Credits)  
College Algebra  
In this course, topics covered include linear equations and inequalities, linear modeling, functions-concepts and graphing, quadratic functions and models, polynomial and rational functions, exponential and logarithmic functions, and sequences and series. The course involves four hours of lecture per week and students must have a command of basic algebraic skills such as factoring, basic equation-solving, and a thorough knowledge of the rules of exponents and radicals. Prerequisites: A grade of C or better in MTH-120 or satisfactory placement scores.

NAV-225 (3 Credits)  
Diné Philosophy of Education  
This course explores the historical perspective and folklore of the early existence of Diné people. The course continues to explore the historical perspective and folklore of the early existence of the Diné people. The course includes an in-depth look at the four principles of the Diné culture and how Diné philosophy reflects today’s society.

VET-090 (1 Credit)  
Introduction to Veterinary Technology  
This course will give veterinary technology students an overview of the veterinary technology program and an overview of a career in veterinary technology. Students must earn 75% or better to advance to the next level of courses in the major. This course is offered in the fall and spring semesters only.