It is our goal at UND to prepare students for any veterinary school in the country. Seats in veterinary school entering classes are limited – approximately 4,200 seats are available across the country each year. The national ratio of qualified applicants per available seat is approximately 2:1. Individual schools, however, will see much higher numbers. Getting accepted into any veterinary school is done through a highly competitive, two stage application process. It is extremely important that you are well prepared and able to present the best possible application to veterinary schools when you apply - good planning is key!

The Pre-Veterinary Medicine is not a major or degree granting program. In order to graduate with a degree from UND, students must:

1. Choose a **Major** and complete the specific requirements determined by the department responsible for that major
2. Complete the **Essential Studies Requirements**
3. Complete 120 semester credits (36 of which must be upper divisional credits)

You will be assigned two advisors while pursuing your degree and the Pre-Vet Program at UND:

- A major advisor (from your major department) to help with the planning of your major curriculum
- The Health Sciences Advisor (from the College of Arts & Sciences) to help with all aspects of veterinary school preparation

**Joining** the Pre-Vet Program is easy!:

1. Incoming freshmen students should plan to attend Summer Orientation - you can declare Pre-Vet at that time
2. Current or transfer students can declare Pre-Vet by stopping by the A&S main office or by calling us at 701-777-4974

**Staying** in the Pre-Vet Program is hard!:

1. **Incoming Freshmen** must:
   - Attend all freshmen group advising meetings during the fall semester
   - Attend one freshmen group advising meeting during the spring semester
   - Complete the following courses, with a C grade or better, before the start of sophomore year:
     - Bio 150-151, with labs
     - Math 103 (may test out of this with an ACT Math score of 26, or appropriate Math placement test score)
     - Chem 121-122, with labs
   - Maintain a cumulative GPA of 3.4 or higher during freshman year

2. **Transfer students, or current students** switching to Pre-Vet after freshman year, must:
   - If not already completed at UND or transferred in, complete the following courses with a C grade or better:
     - Bio 150-151, with labs
     - Math 103
     - Chem 121-122, with labs
   - Have a cumulative GPA of 3.4 or higher

3. **All continuing Pre-Vet students** must:
   - Take Pre-Vet courses as advised
   - Prepare for and take the GRE
   - Keep cumulative GPA and science GPA competitive
Veterinary schools consider a variety of factors when reviewing applications:

1. **Academics**
   a. Undergraduate Preparation
   Admission into veterinary school typically requires completion of a Bachelor’s degree or at least 90 credits from an accredited college or university. All vet schools have specific content or course prerequisites which are included in the UND Pre-Vet Program. UND accepts AP and post-secondary transfer credits toward the completion of a bachelor’s degree in accordance with the NDUS policies of General Education Requirement Transfer Agreement (GERTA) and Common Course Numbering (CCN). UND also has numerous articulation agreements and course equivalencies with other academic institutions. You should, however, check with the medical schools on your wish list regarding the post-UND implications of any AP, IB, CIS, CLEP, on-line, distance learning or community college work you plan to complete prior to your undergraduate matriculation.

   b. Major
   Vet schools do not require any particular major, so technically, any major is fine. While Biology seems to be the most appropriate major at UND for Pre-Vet students, you should pick something you are good at, or enjoy studying, or fits your “plan B” if you don’t end up going to vet school. A list of each major and degree offered at UND may be found at: [http://und.edu/academics/registrar/fields-of-study.cfm](http://und.edu/academics/registrar/fields-of-study.cfm). Click on a particular major to see what you will be studying, as well as opportunities and careers associated with that major. For specific requirements and course descriptions, click on the Academics – Check out the courses you’ll take link on the right side of each major page. Four year plans (i.e., schedule of courses) for each degree are listed by college and are posted online at: [http://und-public.courseleaf.com/4yearplan/](http://und-public.courseleaf.com/4yearplan/).

   The combination of the Pre-Vet program with a major in the College of Arts and Sciences can usually be finished in 4 years if started freshmen year. The combination of the Pre-Vet program with a major in Athletic Training, Aviation, Engineering, Education, Nursing, Nutrition or Medical Laboratory Science will take longer. Because these particular majors include busy curricula and/or practicums, in most cases if you plan to combine one of them with Pre-Vet, you will need at least 5 years of undergraduate studies to do so.

   c. GPA
   Since graduate school (i.e. vet school) is tougher than undergraduate school, you need to leave no doubt of your academic ability by excelling at the undergraduate level. Average cumulative GPA of recent veterinary school matriculants across the nation: 3.6.

2. **GRE**
   a. Timing
   This rigorous exam is required by most vet schools – students planning to finish their undergraduate degrees in 4 years typically take the GRE in May or June after their 3rd year (junior year) of college. While retakes are allowed, it is best to "do it right the first time".

   b. Preparation
   Since considerable time (2+ hours/week) needs to go into GRE preparation, UND students are encouraged to take a lighter load (12 credits) during the spring semester of their junior year to give them room for reviewing and practice testing on their own.

   c. Scores
   Average national GRE scores for recent veterinary school matriculants:
   - Verbal: 65th percentile
   - Quantitative: 58th percentile
3. Life Experiences
   a. Real World - Direct Animal Care Experience => 1000-2000 hours
      • Veterinary schools expect you to spend considerable time working in veterinary health care. You need to get a job in which you give direct medical care to animals, have a chance to observe veterinarians, and have a supervisor observing you (most vet schools require a letter of recommendation from a veterinarian and a work supervisor).
      • You may need to combine several jobs to get the experience and understanding of veterinary medicine you need. Work settings can include a vet hospital, kennel, humane society/rescue, stable, ranch, zoo, training facility, groomer, pet store, etc.
   b. Shadowing => 40-80 hours
      • Get a good feel for the profession by shadowing as many different kinds of veterinarians as possible: small animal, large animal, exotic animal, wildlife, etc.
      • Be sure to include both rural and city experiences
   c. Community Service => These activities will set you apart!
      • Do things that you love, have a passion for, demonstrate your desire to serve others and give back, show your love of learning, let your leadership skills shine, etc.
      • These volunteer activities/paid jobs include, but are not limited to:
        o Lifeguards, first responders
        o Coaching/teaching sports (for park boards, travelling leagues, Special Olympics, etc.)
        o Camp counseling (church camps, day camps, medical camps, music camps, etc.)
        o Big Brother/Big Sister, Meals on Wheels, Relay for Life, etc.
        o Volunteering at your local city mission, free clinic, humane society, etc.
        o College organization participation or leadership (clubs, honor societies, sororities/fraternities, etc.)
        o College tutoring or TA positions
        o Medical missions trips (through college organizations, national organizations, or local churches)
        o Church work/sponsored activities (Sunday school teacher, youth worker, mission trips, etc.)
        o American Red Cross, Peace Corps
   d. Research => expected of students planning to attend top tier veterinary schools
      • UND has numerous opportunities for doing undergraduate basic science research during summer breaks or the school year – you may apply for positions that either pay or give you college credit
      • Regional labs or companies may offer summer opportunities
      • National labs (the NIH and the CDC) have some summer positions for college students
   e. Keep a log of all hours
      Although formal documentation is not needed, you should keep a simple personal log for all experiences/work in a notebook – be sure to include dates, times, activities, impressions, and note any meaningful patients or experiences. You will also need to provide contact information for someone who witnessed you in each experience or circumstance, so make note of that as well!

4. Letters of Recommendation
   a. You will need 3-4 letters of recommendation or evaluation for most veterinary schools.
   b. Letters need to address the personal attributes and academic abilities that make you a good fit for vet school and the profession of veterinary medicine.
   c. Authors will have to include at least one veterinarian and one professor, and possibly a work supervisor – make sure they know you very well!

5. Legal Record
   a. Keep legal records clean. All minors and felonies will need to be disclosed on applications.
   b. Keep university records clean. Any institutional actions for code of student conduct violations (behavioral, academic, legal, etc.) will need to be disclosed on applications.
   c. Keep personal social media sites clean (Facebook, Twitter, etc.). Be sure to demonstrate integrity, maturity, wholesomeness and good taste in all postings (verbal, photos, pictures, etc.).

6. Home State Residency
   Veterinary schools consider your home state of residency to be where you graduated high school and/or where your parent(s) currently live. You do not become a resident of a state by just attending college there!
Courses included in the **UND Pre-Veterinary Program** fall into one (or more) category. These categories are:

1. Requirements for most vet schools
2. Requirements for UND Biology major
3. Good, additional preparation for veterinary schools

The checklist below will help you keep track of your progress in the Pre-Veterinary Program:

**UND courses required by most WICHE/Contract veterinary schools:**

- Biol 150, 150L General Biology I
- Biol 151, 151L General Biology II
- Biol 315 Genetics
- Biol 341 Cell Biology
- Biol 442, 442L Physio of Organs/Systems
- Mbio 302, 302L General Microbiology
- Math (choose one) => best to complete before Physics
  - Math 146 Applied Calculus
  - Math 165 Calculus I
  - AP credit for Calculus
- Phys 211, 211L College Physics I
- Phys 212, 212L College Physics II
- Chem 121, 121L
- Chem 122, 122L
- Chem 341, 341L
- Chem 342, 342L
- BMB 301 Biochemistry
- A Statistics course (choose one)
  - Soc 326 Sociological Statistics
  - Math 321 Applied Statistical Methods
  - Biol 470 Biometry
- Engl 110 Composition I
- Engl 130 Composition II
- Comm 110 Public speaking
- Psyc 111 Introduction to Psychology

**UND electives good for veterinary school preparation** (all Biology courses will count towards the Biology major):

- Biol 312 Evolution
- Biol 338 Animal Behavior (even springs only)
- Biol 364, 364L Parasitology (odd falls only)
- Biol 369, 369L Histology
- Biol 376, 376L Animal Biology
- Biol 378, 378L Developmental Biology
- Biol 380 Disease Biology (odd springs only)
- Biol 390 Endocrinology
- Biol 418 Systems Biology
- Biol 420 Neuroscience
- Biol 426 Birds and Mammals
- MBio 328 Introduction to Immunology
- PHE 101 Public Health
- A Business course (your choice)
  - Badm 101
  - Econ 201
  - Econ 202
  - Mgmt 300
The sample schedule shown below indicates when the **Pre-Veterinary** and **Biology major** courses should be taken, and shows the timing for taking the GRE and applying to vet schools. This is not a complete semester schedule! UND students will have to add Essential Studies requirements, and other electives to each semester in the schedules below as needed or desired:

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<thead>
<tr>
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<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
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<tbody>
<tr>
<td>Fall</td>
<td>Biol 120</td>
<td>Chem 341, 341L</td>
<td>Physics 211, 211L</td>
<td>Biol 480</td>
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<td></td>
<td>Biol 150, 150L</td>
<td>Biol 315</td>
<td>Biol 442, 442L</td>
<td>Biol 364, 364L ? (odd falls only)</td>
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<tr>
<td></td>
<td>Chem 121, 121L</td>
<td></td>
<td>Biol 364, 364L ? (odd falls only)</td>
<td>Biol 333, 333L for minor ?</td>
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<td></td>
<td>Math 103</td>
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<td>Biol requirement**</td>
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<td>Courses from Group 1*</td>
<td>Courses from Group 1 or 2*</td>
<td>Courses from Group 2 or 3*</td>
<td>Courses from Group 2, 3 or 4*</td>
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<td><strong>2nd Vet School Apps Due</strong></td>
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<td><strong>Interviews Begin</strong></td>
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<td>(Usually run October-February)</td>
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<tr>
<td>Spr</td>
<td>Biol 151, 151L</td>
<td>Chem 342, 342L</td>
<td>Physics 212, 212L</td>
<td>Biol 376, 376L</td>
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<tr>
<td></td>
<td>Chem 122, 122L</td>
<td>Biol 341, 341L</td>
<td>BMB 301 or Mbio 302, 302L</td>
<td>Mbio 302, 302L</td>
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<td></td>
<td>Math 146</td>
<td>Biol 312, 312R</td>
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<td>Mbio requirement**</td>
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<td></td>
<td>Courses from Group 1*</td>
<td>Courses from Group 1 or 2*</td>
<td>Courses from Group 2* or 3**</td>
<td>Courses from Group 3** or 4**</td>
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<td><strong>Take a lighter credit load (12 credits)</strong></td>
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<td>For GRE prep or GRE prep course</td>
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<td><strong>WICHE Forms – ND, MT, WY res only</strong></td>
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<td>(Complete over Spring Break)</td>
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<td><strong>GRE (1st one by June 15th)</strong></td>
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<td><strong>1st Vet School Apps Due</strong></td>
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<td></td>
<td>Sum</td>
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<td>(Submit to VMCAS by June 30th)</td>
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</tbody>
</table>
|         | Bio 341 is offered at UND during the summer. To help lighten their load during the regular school year, students may wish to take it after freshman or sophomore year (once Bio 150-151 and Chem 121-122 are completed) ...... | **Group 1 courses are required** and include: Engl 110 and 130, Psych 111, Comm 110, and an upper level Stats class (Soc 326, Math 321, Biol 470 or ?) | **Group 2 courses are recommended electives:** Badm 101, Econ 201 or 202, Med 205, PHE 101 | **Group 3 and 4 courses are options for Biology major requirements or electives:**
|         |                                   |                                   |                                             | Group 3 Fall courses: Biol 364+L (odd falls only), Biol 378, Chem 333+L |
|         |                                   |                                   |                                             | Group 3 Spring courses: Biol 338                           |
|         |                                   |                                   |                                             | Group 4 Fall courses: Biol 390, Biol 420, Mbio 328          |
|         |                                   |                                   |                                             | Group 4 Spring courses: Biol 369+L, Biol 338, Biol 426     |