

2019/2020



## Animal Health Professions Exploration and Planning Guide

*This guide helps students navigate the process of selecting appropriate courses and gives advice related to the many decisions to be made prior to applying to veterinary school.*

Cornell Career Services • 103 Barnes Hall, Ithaca, NY 14853 • 607/255-5296



Cornell University

---

Prepared by: Chelsea Rule, Ph.D., Assistant Director and Manager, Health Careers Advising Program

With the aid of: The Health Careers Program Advisory Board  
The Health Careers Advising Network  
College of Veterinary Medicine at Cornell University  
Association of American Veterinary Medical Colleges  
Jennifer Mailey, Director of Admissions CVMCU  
Cornell Career Services Staff

With special thanks to: Kristine Goggan, Staff Assistant, and Kimberlee Swartz, Manager of Employer Relations & Professional Readiness Programs

Copyrighted, 2019, Cornell Career Services, Cornell University. All rights reserved. No part of this publication may be used or reproduced without written permission from Cornell Career Services, Cornell University.

Diversity and inclusion are a part of Cornell University's heritage. We are an employer and educator recognized for valuing AA/EEO, Protected Veterans, and Individuals with Disabilities.

## Table of Contents

---

<b>Introduction</b> .....	1
<b>Frequently Asked Questions</b> .....	1
<b>Cornell Courses that Satisfy Veterinary School Requirements</b> .....	5
<b>Specific Prerequisites for CVMCU</b> .....	7
<b>CVMCU 7-year combined BS/DVM and Early Acceptance Programs</b> .....	9
<b>Application Components and Timing</b> .....	10
<b>Letters of Recommendation</b> .....	12
<b>Interviews: Overview, Techniques, and Tips</b> .....	14
<b>Your Conduct and Credit Rating</b> .....	15
<b>Year-by-Year Timelines</b> .....	15
<b>Health Careers Advisors</b> .....	17



## Introduction

---

Many students enter Cornell University certain that they want to use their education to develop strong credentials for a career in veterinary medicine, while others decide on this career path after significant reflection and experience during the college years. The years spent at Cornell are a time both for exploration of the curriculum and preparation for future careers. This Guide, along with the health careers advisors, will help students to navigate the process of selecting the appropriate courses and give advice related to the many decisions to be made prior to applying to veterinary school.

In the first year, the best way to prepare for a career in veterinary medicine is by focusing on two things: forming a support network and managing your academic life. A strong support system makes it easier to navigate the initially unfamiliar and often unexpectedly rigorous intellectual terrain. Similarly, a strong start in academics brings confidence and facilitates building a strong support system. By taking coursework seriously from the first to the last days of each semester and seeking the guidance available at Cornell, you will develop the confidence needed to continue preparing for professional school.

Because veterinary medicine is a profession dedicated to the service of animals *and* people, students should develop a strong service ethic that is demonstrable through varied experiences. Service may be inside or outside the classroom and can take on many forms. Reflection on experiences, both service and clinical, is critical to demonstrating the development of the qualities of a veterinary professional. Evidence of integrity, ethics, professionalism, written and oral communication, service-mindedness, and understanding of the field on applications to veterinary schools and in interviews is essential.

The path to a career in veterinary medicine requires students to engage in careful planning and preparation, including reflection, and to seek guidance with important decisions. The successful veterinary school applicant uses the Cornell years to develop strong academic credentials, a demonstrated commitment to the veterinary field and the service of others, and the interpersonal skills needed by future veterinarians.

## Frequently Asked Questions

---

### Which college should I enroll in?

A student in any undergraduate college at Cornell may enroll in the courses required for entry into veterinary college. Cornell undergraduate applicants to veterinary school are primarily enrolled in the College of Agriculture and Life Sciences with a few in the College of Arts and Sciences, the College of Engineering, and the College of Human Ecology. The appropriate choice depends largely on your other academic and career interests. Students are encouraged to consult the University's publications for information about the seven colleges at Cornell, and to review their requirements, majors, and course descriptions.

### What should I major in?

Veterinary schools do not require or recommend any particular undergraduate major or designated pre-veterinary program. Cornell does not have a pre-veterinary major, and there is no evidence that admissions committees of veterinary colleges give special consideration to any particular undergraduate education beyond satisfactory completion of the required undergraduate courses; for this reason, students are encouraged to pursue their own intellectual interest in an academic major. Of students admitted to the 2019 veterinary school classes, 6.6% had earned no degree (note, a Bachelor's degree is not required), 87.7% had earned a BA/BS degree, 5.3% had earned a MA/MS degree, and 0.4% had earned a Ph.D. The majority of the admitted students with BA/BS degrees majored in animal/zoological sciences or basic science.

Cornell students might major in animal science, biological sciences, natural resources, or development sociology in the College of Agriculture and Life Sciences; in biological sciences, English, or anthropology in the College of Arts and Sciences; or in nutrition in the College of Human Ecology. In any case, students are able to

complete the required courses while at the same time receiving a broad education and exploring other interests and careers. Students are more likely to succeed at and benefit from subjects that are interesting and stimulating, while also leaving open the option of pursuing an alternative career.

### What courses should I take?

While veterinary schools do not require or recommend any particular major course of study, they do require that particular undergraduate courses be completed (usually with a grade of C – 2.0 – or better). Listed below are the minimum course requirements for admission to the College of Veterinary Medicine at Cornell University (CVMCU). Veterinary Medical School Admission Requirements (VMSAR), published by Purdue University Press, contains details for other schools. A copy is available in the Career Library, 103 Barnes Hall.

English Composition or Writing Intensive Course	6 credit hours
Biology or Zoology (with laboratory)	6 credit hours
Introductory Chemistry (with laboratory)	6 credit hours
Organic Chemistry (laboratory recommended)	3 credit hours
Biochemistry (laboratory preferred)	4 credit hours
Physics (with laboratory)	6 credit hours
Advanced Life Science Course (lab recommended but not required)	3 credit hours

### What is the optimal sequence of courses?

The *recommended order* in which to take these courses is: mathematics, chemistry or biology, physics. Biology, chemistry, and mathematics need to be started by the sophomore year if students plan to apply to veterinary schools during the fall of the senior year for matriculation in the fall following graduation. Courses are usually (but not necessarily) taken during these years:

- First-Year Writing Seminars - freshman
- General Chemistry – freshman\* or sophomore
- Biology – freshman or sophomore
- Mathematics – freshman or sophomore
- Physics – sophomore or junior
- Organic Chemistry – sophomore or junior
- Biochemistry – sophomore or junior
- General Microbiology – junior

\* General chemistry must be taken in the freshman year if a student wants the option to apply to veterinary school the fall of the junior year to attend veterinary school after three years of college.

### How do transfer students fulfill requirements?

Transfer students should check that the courses they have taken at their previous college meet the requirements for entrance to veterinary school.

### Can I take required courses Pass-Fail or S/U?

No. Do not take any requirement for veterinary school “pass/fail” or “satisfactory/unsatisfactory” (S/U).

### Will Advanced Placement (AP) Biology credits fulfill prerequisites?

Check with an advisor before making a decision to use AP Biology credit (*see the Office of Undergraduate Biology website*). Generally speaking, students are advised not to use AP Biology credit because evidence has shown that students who use this credit may find themselves at a learning disadvantage in advanced courses.

Courses accepted by the College as satisfying graduation requirements *may* be used to replace introductory course requirements at veterinary schools. You should check with specific veterinary schools to determine if AP credits are acceptable. Some schools advise students to pursue advanced courses in the discipline in which AP credits were earned to reinforce the material.

### **Can I take prerequisites as summer school courses?**

Required courses may be taken during summer session here or at other universities whose educational standards and rigor are comparable to Cornell's. In general, it is preferable to take these courses at Cornell during the regular school year in order to demonstrate that you can perform well even while carrying a full course load. Your college advising office can explain the procedure for attending summer school elsewhere.

### **What kinds of animal care related experience do I need?**

Veterinary medicine is an animal-oriented profession. Therefore, experiences working with different kinds of animals in different settings and a demonstrated understanding of the veterinary profession are important considerations in the selection process. Such experience may involve breeding, rearing, feeding, and showing various kinds of animals including companion animals, livestock, laboratory animals, zoo animals, or wildlife. Students should be prepared to present evidence of hands-on experience with animals and sufficient contact with the veterinary profession to demonstrate an understanding of the duties and responsibilities of a practitioner and the scope of veterinary medicine to the admissions committees. Some schools may require that a veterinarian write one of an applicant's letters of recommendation. Successful applicants to CVMCU typically have 400 or more hours of veterinary experience.

### **How do I apply to veterinary schools?**

The centralized online application service Veterinary Medical College Application Service (VMCAS) handles applications for 30 U.S. veterinary institutions, along with five Canadian and 20 other international veterinary institutions around the world, including in Scotland, England, Ireland, Australia, and New Zealand, etc. You are encouraged to familiarize yourself with the VMCAS application through information provided by AAVMC (Association of American Veterinary Medical Colleges) and through the VMCAS website at [aavmc.org/Students-Applicants-and-Advisors/Veterinary-Medical-College-Application-Service.aspx](http://aavmc.org/Students-Applicants-and-Advisors/Veterinary-Medical-College-Application-Service.aspx). Applications to schools that do not participate in VMCAS and offshore veterinary schools are made to each school individually.

### **Which standardized examinations are required for application to veterinary schools?**

Most veterinary schools accept the Graduate Record Exam (GRE). Some accept the Medical College Admission Test (MCAT). CVMCU accepts either the GRE or MCAT. VMSAR contains standardized test scores and GPA minimums and averages for veterinary schools as well as information about preferred standardized tests. For more information about the MCAT, see the *Guide for First- and Second-Year Pre-Medical Students* and the *Guide for Advanced Pre-Medical Students*.

### **What are the application statistics for veterinary schools?**

In 2018, there were 7,507 applicants for the approximately 4,120 available seats to U.S. schools of veterinary medicine. The number of applicants increased from the 7,076 who applied in the 2017 cycle. The 7,507 applicants in the 2018 cycle submitted over 36,596 individual applications, an average of 4.9 schools per applicant. The average VMCAS fee was \$655 per applicant.

The average GPA for accepted applicants was 3.6 in 2018. The average GRE percentile scores of accepted applicants in the 2018 cycle were 65.1 for the verbal section and 53.5 for the quantitative section.

Approximately 50-60 Cornell students apply to CVMCU each year. Over the last five years roughly 15-20 members of the CVMCU classes were from Cornell.

### **What is the current employment outlook for vets?**

Surveys conducted in 2014 indicate that sixty-three percent of all veterinarians are in private practice; however, government, businesses, universities, and the military also employ veterinarians. In 2016, the median salary for practicing veterinarians was \$88,490. The median debt for a 2015 veterinary school graduate was \$156,480.

Most veterinary medicine students need to borrow to cover expenses, including tuition and the cost of living. The AAVMC also encourages students to consider the costs of owning animals (dogs, cats, horses) during the years spent in veterinary school, as 75-80% of students bring pets. In order to secure loans, you should be sure to maintain a good credit rating throughout your college years.

### **What is the double registration program?**

The double registration program between CVMCU and Cornell University undergraduates is approved for students in the College of Agriculture and Life Sciences (CALS). It enables a qualified student to save one year in pursuit of the Bachelor and D.V.M. degrees. The program is intended for students who have been admitted to CVMCU after completing three years of undergraduate work and who have made sufficient progress on the Bachelor's Degree requirements. Certain courses taken in the College of Veterinary Medicine can be used to complete those requirements. Questions about the program may be directed to the CALS pre-health/pre-vet advisors in 140 Roberts Hall.

Students are also encouraged to seek out information from CVMCU, including the *Pre-Vet Newsletter*. To subscribe, visit [www2.vet.cornell.edu/education/doctor-veterinary-medicine/prospective-students](http://www2.vet.cornell.edu/education/doctor-veterinary-medicine/prospective-students).

### **What is the 7-Year Combined BS/DVM Accelerated Program?**

The College of Agriculture and Life Sciences (CALS) and Cornell University College of Veterinary Medicine (CVMCU) have established a formal 7-year BS/DVM program for those looking for an accelerated path to a veterinary degree. This program gives exceptionally well-qualified CALS students the opportunity to obtain provisional admission to CVMCU after completing their Freshman year. For details and criteria to apply visit the website, [vet.cornell.edu/admissions](http://vet.cornell.edu/admissions).

### **What guidance does Cornell give health careers-oriented undergraduates?**

Cornell has a structured Health Careers Advising Program. The Career Library and the health careers advisor in Barnes Hall provide information, orientation sessions, and advising for students in all colleges. The advisor has drop-in advising hours and scheduled appointments, and can also be reached by e-mail and telephone. Advising information is also available on the Health Careers webpage accessed through Cornell Career Services: [career.cornell.edu](http://career.cornell.edu).

Most of the questions first-year, sophomore, and junior transfer students pose relate to academic requirements. It is best to address these questions to an advisor in your college or major.

College of Agriculture and Life Sciences, CALS Career Services, 140 Roberts Hall  
College of Arts and Sciences, Ana Adinolfi, 172 Goldwin Smith Hall and Naya Sou, G17  
Klarman Hall

College of Engineering, Benjamin Martin, 180 Rhodes Hall  
College of Human Ecology, Shaun Gendrue, 113 Academic Surge A  
Office of Undergraduate Biology, 216 Stimson Hall

Several advisors are available depending on your question: Beth Howland, Megan Gallagher, Jeff McCaffrey, Laura Schoenle, and student peer advisors.

Resources: A sample of books available in the Career Library, 103 Barnes Hall includes:

*American Animal Hospital Association Accredited Practice Directory*  
*American Zoo and Aquarium Membership Directory*  
*Career Opportunities Working with Animals*, Shelly Field  
*Extraordinary Jobs with Animals*, Alecia Devantier and Carol Turkington  
*Get Into Veterinary School - Insights by an Admission Expert*, Joseph Piekunka  
*The Everything Guide to Working with Animals*, Michele Hollows and William Rives, VMD



## Cornell Courses that Satisfy Veterinary School Requirements

Subject	Cornell University Courses
<b>Biology</b>	<p style="text-align: center;"><i>Offered fall, spring and summer</i></p> BIOMG 1350 Introductory Biology: Cell and Developmental Biology AND BIOG 1440 <u>or</u> 1445* Introductory Biology: Comparative Physiology <i>*BIOG 1445 is an individualized instruction format course.</i> AND BIOG 1500 Investigative Biology Laboratory
<b>English/Composition</b>	<p>The English/composition requirements of schools vary. Some schools require one semester while others require two semesters, some with a focus on English composition. Students are encouraged to check the requirements of specific veterinary schools. Most veterinary schools will accept First-Year Writing Seminars (FWS) in fulfillment of their writing requirement; however, writing-intensive courses from other disciplines may also be acceptable. Some veterinary schools also require a course in oral communication.</p> <ul style="list-style-type: none"> <li>• COMM 210 Oral Communication (<i>offered fall, spring, summer</i>)</li> </ul>
<b>Biochemistry</b>	<p><i>Any of the following:</i></p> <ul style="list-style-type: none"> <li>• BIOMG 3310 Principles of Biochemistry: Proteins and Metabolism (<i>offered fall</i>)     AND BIOMG 3320 Principles of Biochemistry: Molecular Biology (<i>offered spring</i>)</li> <li>• BIOMG 3300 Biochemistry, Individualized Instruction (<i>offered fall, spring</i>)</li> <li>• BIOMG 3350 Principles of Biochemistry: Proteins, Metabolism, and Molecular Biology (<i>offered spring</i>)</li> <li>• NS 3200 Introduction to Human Biochemistry (<i>offered fall</i>)</li> <li>• BIOMG 3330 Principles of Biochemistry: Proteins, Metabolism, and Molecular Biology (<i>offered summer</i>)</li> </ul>
<b>Advanced Life Sciences</b>	<p><i>Requirements of veterinary schools vary. The following are common upper-level courses that may be required by some schools. Students are encouraged to check the requirements of schools to which they plan to apply.</i></p> <ul style="list-style-type: none"> <li>• BIOMG 2800 Genetics Lecture (<i>offered fall, spring, summer</i>)             <ul style="list-style-type: none"> <li>◦ BIOMG 2801 Genetics Lab (<i>offered fall, spring, summer</i>)</li> </ul> </li> <li>• BIOMI 2900 General Microbiology Lectures (<i>offered fall, spring, summer</i>)             <ul style="list-style-type: none"> <li>◦ BIOMI 2911 General Microbiology Laboratory (<i>offered fall, spring</i>)</li> </ul> </li> <li>• NS 3410 Human Anatomy and Physiology (<i>offered spring</i>)             <ul style="list-style-type: none"> <li>◦ NS 3420 Human Anatomy and Physiology Laboratory (<i>offered spring</i>)</li> </ul> </li> <li>• ANSC 2120 Animal Nutrition (<i>offered fall</i>)</li> </ul>
<b>General Chemistry</b>	<p>Visit <a href="https://chemistry.cornell.edu/information-majors#premedical-students">https://chemistry.cornell.edu/information-majors#premedical-students</a> for more information on General Chemistry course options. Some options include:</p> <p style="text-align: center;"><b><u>Option 1</u></b></p> CHEM 2070 General Chemistry I ( <i>offered fall, summer</i> ) AND CHEM 2080 General Chemistry II ( <i>offered spring, summer</i> ) <p style="text-align: center;"><b><u>Option 2</u></b></p> CHEM 2150 Honors General and Inorganic Chemistry ( <i>offered fall</i> ) <ul style="list-style-type: none"> <li>◦ An accelerated one-semester course leading directly to organic chemistry</li> <li>◦ An AP score of 5 on Chemistry or instructor permission is required</li> <li>◦ Some veterinary schools require a full-year of general chemistry</li> </ul> <p style="text-align: center;"><b><u>Option 3</u></b></p> <p style="text-align: center;"><i>For Engineering Students Only</i></p> CHEM 2090 Engineering General Chemistry ( <i>offered fall, spring</i> ) AND CHEM 2080 General Chemistry II ( <i>offered spring, summer</i> ) OR CHEM 2150 Honors General and Inorganic Chemistry ( <i>offered fall</i> )

<p><b>Organic Chemistry</b></p>	<p><i>Students should explore requirements of specific veterinary schools before choosing which option to pursue.</i></p> <p style="text-align: center;"><b><u>Option 1</u></b></p> <p>CHEM 3570 Organic Chemistry for the Life Sciences (<i>offered fall, summer</i>)  <b>AND</b> CHEM 3580 Organic Chemistry for the Life Sciences (<i>offered spring, summer</i>)  <b>AND</b> CHEM 2510 Introduction to Experimental Organic Chemistry (<i>offered fall, spring, summer</i>)</p> <p style="text-align: center;"><b><u>Option 2</u></b></p> <p>CHEM 3590 Honors Organic Chemistry I (<i>offered spring</i>)  <b>AND</b> CHEM 3600 Honors Organic Chemistry II (<i>offered fall</i>)  <b>AND</b> CHEM 2510 Introduction to Experimental Organic Chemistry (<i>offered fall, spring, summer</i>)</p> <p style="text-align: center;"><b><u>Option 3</u></b></p> <p>CHEM 3530 Principles of Organic Chemistry (<i>offered fall</i>)  <b>AND</b> CHEM 2510 Introduction to Experimental Organic Chemistry (<i>offered fall, spring, summer</i>)</p> <ul style="list-style-type: none"> <li>o A single-semester organic chemistry course</li> <li>o Some veterinary schools require a full-year of organic chemistry</li> </ul>
<p><b>Math</b></p>	<p><i>Some veterinary schools require a semester of calculus and/or statistics. Students are encouraged to check the requirements of schools to which they plan to apply.</i></p> <p style="text-align: center;"><b><u>Calculus</u></b></p> <ul style="list-style-type: none"> <li>• MATH 1106 Calculus for the Life and Social Sciences (<i>offered spring</i>)</li> <li>• MATH 1110 Calculus I (<i>offered fall, spring, summer</i>)</li> <li>• MATH 1910 Calculus for Engineers (<i>offered fall, spring, summer</i>)</li> </ul> <p style="text-align: center;"><b><u>Statistics</u></b></p> <ul style="list-style-type: none"> <li>• STSCI 2150 Introductory Statistics for Biology (<i>offered fall, spring</i>)</li> <li>• BTRY 3010 Biological Statistics I (<i>offered fall</i>)</li> <li>• MATH 1710 Statistical Theory and Application in the Real World (<i>offered fall, spring</i>)</li> <li>• AEM 2100 Introductory Statistics (<i>offered fall</i>)</li> <li>• ILRST 2100 Introductory Statistics (<i>offered fall, winter, spring, summer</i>)</li> <li>• PSYCH 3500 Statistics and Research Design (<i>offered fall, summer</i>)</li> <li>• ECON 3130 Statistics and Probability (<i>offered fall</i>)</li> <li>• SOC 2010 Evaluating Statistical Evidence (<i>offered fall</i>)</li> <li>• ENGRD 2700 Basic Engineering Probability and Statistics (<i>offered fall, spring, summer</i>)</li> <li>• CEE 3040 Uncertainty Analysis in Engineering (<i>offered fall</i>)</li> <li>• PAM 2100 Introduction to Statistics (<i>offered spring</i>)</li> </ul>
<p><b>General Physics</b></p>	<p style="text-align: center;"><b><u>Option 1</u></b></p> <p style="text-align: center;"><i>Individualized instruction, not calculus-based</i></p> <p>PHYS 1101 General Physics I (<i>offered fall, summer</i>)  <b>AND</b> PHYS 1102 General Physics II (<i>offered spring, summer</i>)</p> <p style="text-align: center;"><b><u>Option 2</u></b></p> <p style="text-align: center;"><i>Calculus-based</i></p> <p>PHYS 2207 Fundamentals of Physics I (<i>offered fall</i>)  <b>AND</b> PHYS 2208 Fundamentals of Physics II (<i>offered spring</i>)</p> <p style="text-align: center;"><b><u>Option 3</u></b></p> <p>PHYS 1112 Physics I: Mechanics &amp; Heat (<i>offered fall, spring, summer</i>)  <b>AND</b> PHYS 2208 Fundamentals of Physics II (<i>offered spring</i>)</p> <p style="text-align: center;"><b><u>Option 4</u></b></p> <p style="text-align: center;"><i>For Engineering Students</i></p> <p>PHYS 1112 Physics I: Mechanics &amp; Heat (<i>offered fall, spring, summer</i>)  <b>AND</b> PHYS 2213 Physics II: Electromagnetism (<i>offered fall, spring, summer</i>)  <b>AND</b> PHYS 2214 Physics III: Oscillations, Waves, and Quantum Physics (<i>offered fall, spring, summer</i>)</p> <p>* <i>Crossovers between 1101/2208 and 2207/1102 are acceptable.</i></p>

## Specific Prerequisites for CVMCU

Subject	Cornell University Courses
<b>English/Composition</b> <i>Two semesters</i>	May be satisfied by a full-year of the First-Year Writing Seminars.
<b>Biology</b> <i>Two semesters with labs (or two credit investigative lab)</i>	<p style="text-align: center;"><i>Offered fall, spring, and summer</i></p> BIOMG 1350 Introductory Biology: Cell and Developmental Biology BIOG 1440 <u>or</u> 1445* Introductory Biology: Comparative Physiology <b>AND</b> BIOG 1500 Investigative Biology Laboratory Note: BIOAP 1100 Domestic Animal Biology ( <i>offered fall</i> ) can be used for half of the biology requirement as an option.
<b>Biochemistry</b> <i>One semester required; two semesters recommended</i>	<p><i>Any of the following:</i></p> <ul style="list-style-type: none"> <li>• BIOMG 3310 Principles of Biochemistry: Proteins and Metabolism (<i>offered fall</i>)  <b>AND</b> BIOMG 3320 Principles of Biochemistry: Molecular Biology (<i>offered spring</i>)</li> <li>• BIOMG 3300 Biochemistry, Individualized Instruction (<i>offered fall, spring</i>)</li> <li>• BIOMG 3350 Principles of Biochemistry: Proteins, Metabolism, and Molecular Biology (<i>offered spring</i>)</li> <li>• NS 3200 Introduction to Human Biochemistry (<i>offered fall</i>)</li> </ul>
<b>Advanced Life Sciences</b> <i>One semester</i>	Suggested courses include microbiology (general or bacteriology); immunology (basic immunology); physiology (animal/comparative physiology, bacterial physiology, neurophysiology, cell physiology/histology, cell biology, endocrinology, developmental biology); and genetics (genetics, molecular genetics, developmental genetics, bacterial genetics, or genomics). 3000-4000 level course (junior- or senior-level). The exception is microbiology at the 2000-level or above. One semester minimum.
<b>General Chemistry</b> <i>Two semesters with labs</i>	<p style="text-align: center;"><b>Option 1</b></p> CHEM 2070 General Chemistry I ( <i>offered fall, summer</i> ) <b>AND</b> CHEM 2080 General Chemistry II ( <i>offered spring, summer</i> ) <p style="text-align: center;"><b>Option 2</b></p> CHEM 2150 Honors General and Inorganic Chemistry ( <i>offered fall</i> ) <b>AND</b> one other semester <p style="text-align: center;"><b>Option 3</b></p> <p style="text-align: center;"><i>For Engineering Students Only</i></p> CHEM 2090 Engineering General Chemistry ( <i>offered fall, spring</i> ) <b>AND</b> CHEM 2080 General Chemistry II ( <i>offered spring, summer</i> ) <b>OR</b> CHEM 2150 Honors General and Inorganic Chemistry ( <i>offered fall</i> )
<b>Organic Chemistry</b> <i>One semester</i>	<p><i>Any one of the following:</i></p> <ul style="list-style-type: none"> <li>• CHEM 3570 Organic Chemistry for the Life Sciences (<i>offered fall, summer</i>)</li> <li>• CHEM 3590 Honors Organic Chemistry I (<i>offered spring</i>)</li> <li>• CHEM 3530 Principles of Organic Chemistry (<i>offered fall</i>)</li> </ul>
<b>General Physics</b> <i>Two semesters with labs</i>	<p style="text-align: center;"><b>Option 1</b></p> <p style="text-align: center;"><i>Individualized instruction, not calculus-based</i></p> PHYS 1101 General Physics I ( <i>offered fall, summer</i> ) <b>AND</b> PHYS 1102 General Physics II ( <i>offered spring, summer</i> ) <p style="text-align: center;"><b>Option 2</b></p> <p style="text-align: center;"><i>Calculus-based</i></p> PHYS 2207 Fundamentals of Physics I ( <i>offered fall</i> ) <b>AND</b> PHYS 2208 Fundamentals of Physics II ( <i>offered spring</i> ) <p style="text-align: center;"><b>Option 3</b></p> PHYS 1112 Physics I: Mechanics & Heat ( <i>offered fall, spring, summer</i> ) <b>AND</b> PHYS 2208 Fundamentals of Physics II ( <i>offered spring</i> ) <p style="text-align: center;"><b>Option 4</b></p> <p style="text-align: center;"><i>For Engineering Students</i></p> PHYS 1112 Physics I: Mechanics & Heat ( <i>offered fall, spring, summer</i> ) <b>AND</b> PHYS 2213 Physics II: Electromagnetism ( <i>offered fall, spring, summer</i> ) <b>AND</b> PHYS 2214 Physics III: Oscillations, Waves, and Quantum Physics ( <i>offered fall, spring, summer</i> )

This page is intentionally blank

## CVMCU Accelerated 7-Year Combined BS/DVM Program

The College of Agriculture and Life Sciences (CAL S) and Cornell University College of Veterinary Medicine (CVM) have established a formal 7-year BS/DVM program for those looking for an accelerated path to a veterinary degree. This program gives exceptionally well-qualified CAL S students the opportunity to obtain provisional admission to CVM after completing their Freshman year. Details can be found on CVMCU website: <https://www.vet.cornell.edu/education/doctor-veterinary-medicine/admissions/early-admission-programs/cornell-accelerated-bsdvm-program>. Contact Jennifer Mailey, Director of Admissions, jam333@cornell.edu, with questions.

Criteria for *Provisional Acceptance*:

- Apply the Fall semester of the sophomore year (deadline October 1<sup>st</sup>)
- Minimum GPA 3.7 during first year
- If a student transfers into Cornell for their sophomore year, they must have a 3.7 cumulative GPA from their original institution as well as a 3.7 GPA for the Fall semester of their sophomore year at Cornell
- No more than 30 of the 90 semester credits can be transfer credits
- All prerequisite courses must be taken at CAL S or at the student's original institution
- Application form and required documents
- GRE NOT required

## CVMCU Early Acceptance Program

The *Early Acceptance Program* gives exceptionally well qualified applicants the opportunity to obtain admission to veterinary school after completing their **sophomore year**. With admission to the Cornell University College of Veterinary Medicine secured, the successful applicant may use the time between acceptance and matriculation to pursue experience in areas of personal interest. Entry into the professional curriculum is expected after completion of the junior year. Admission to the program is based on outstanding academic performance in the first two years of college and the applicant's plan for the intended use of the third year in college. Completion of a baccalaureate degree prior to matriculation is not required.

Criteria for admission to this program are rigorous. Applicants for this program have a GPA of 3.7 or better and GRE Verbal and Quantitative scores above the 80th percentile. It is expected that the GRE will be taken by May 1 of the application year so that the scores will be delivered from ETS by the application deadline. Applicants must also have completed at least one semester of organic chemistry *and* one semester of an upper-level biology, biochemistry, or physics course. Additionally, applicants must submit a written plan describing how the time between acceptance and matriculation will be spent. Examples of how the time may be spent include study in challenging courses, initiation or completion of a research project, or time spent in a unique life experience. Taking additional preparatory courses, gaining additional veterinary hours, and continuing pre-vet opportunities are not viable reasons for this specific program, and it is not intended to delay matriculation for reasons of economics, illness, or other personal hardships.

Applications for the Early Acceptance Program should **not** be sent through VMCAS.

The application and evaluation process for the program are as follows:

- College sophomores are eligible to apply at the end of the spring term of their second year for admission after their third year.
- Applications are available in March each year with a deadline of June 1. Supplemental information, such as letters of evaluation and transcripts from all colleges, are required. Visit the College of Veterinary Medicine's admissions web site for details: [vet.cornell.edu/admissions](http://vet.cornell.edu/admissions); or email: [vet\\_admissions@cornell.edu](mailto:vet_admissions@cornell.edu).
- The application and prerequisite requirements are the same as for the other applicants, except that all prerequisite courses must have been completed with a grade of B or better. Students who have

not satisfied all of the prerequisite coursework must complete it before the end of spring term prior to matriculation.

- The GRE or MCAT must be in the admissions office by the June 1 deadline. Cornell's GRE code number is 2549 and MCAT code number is 993.
- Contact the Office of DVM Admissions 607.253.3700 or [vet\\_admissions@cornell.edu](mailto:vet_admissions@cornell.edu) with questions about the program.

## Application Components and Timing

---

### VMCAS and non-VMCAS

VMCAS (Veterinary Medical College Admission Service) is a non-profit, centralized application service used by most veterinary colleges. VMCAS processes the application and sends the information to each VMCAS-participating school that the applicant has designated. The VMCAS application is web-based and can be found at [aavmc.org](http://aavmc.org). The application becomes available early in the summer each year. Even if you apply through VMCAS, individual veterinary schools may require you to submit some materials directly to their school.

In general, whether applying through VMCAS or completing a non-VMCAS school's application, the process involves application forms, essays or personal statements, transcripts, and letters of recommendation. The following information suggests how to proceed in these and related areas, but it may need to be tailored to meet the requirements of a particular school or the VMCAS application. These can vary from year to year.

### Timing of the Application

The VMCAS deadline this year is September 17, 2019. Students should expect that the deadline will be similar in subsequent years. The VMCAS application, transcripts, and three letters of recommendation must be received prior to the deadline. VMCAS representatives recommend that students submit their applications *one month* prior to the deadline to allow time for the verification process to be completed in a timely manner.

### Transcripts

Each student is responsible for requesting that an official transcript be sent to VMCAS from the Registrar's office at each college or university attended. Cornell transcripts can be requested through Student Center or Student Essentials. Students are encouraged to order a personal copy of the transcript to check for errors and to help with entering coursework into the VMCAS application.

Transcripts for work completed at other post-secondary institutions are available from the registrars of those institutions. Students should send transcripts for additional academic work (i.e., the semesters following the VMCAS application), if requested by the schools. If these transcripts are not requested, you may send them at your discretion, depending on whether they enhance your application and if schools have indicated that it is acceptable to send additional materials.

### First-Year Writing Seminars

Because some veterinary schools may not be familiar with the First-Year Writing Seminars, you may want to provide a statement that these courses are equivalent to English composition courses.

If a veterinary school you are applying to requires that the courses you are using to complete the English requirement have English in the title or course prefix, ask the John S. Knight Institute for Writing to prepare a statement for you to send to that veterinary school with the secondary application. Fill in all requested information at [knight.as.cornell.edu/fws-guidelines#medical/dental/grad-schools-letters](http://knight.as.cornell.edu/fws-guidelines#medical/dental/grad-schools-letters).

## Personal Statement or Essay

VMCAS and many veterinary schools provide the opportunity for applicants to write three personal statements of no more than 2,000 characters (including spaces) each, in response to the following prompts (2019 applicants for 2020 matriculation):

1. There are many career choices within the veterinary profession. What are your future career goals and why?
2. In what ways do veterinarians contribute to society and what do you hope to contribute?
3. Considering the breadth of society that we serve as veterinarians today, what attributes do you believe are essential to be successful within the veterinary profession? Of these attributes, which do you possess and how have you demonstrated these in the past?

The VMCAS essay is an opportunity to help the admissions committee learn more about applicants, their interest in veterinary medicine, their understanding of the profession, and their career goals. Applicants should use the essay to “come alive” to the reader and convey unique characteristics. When writing the statement, students should focus on one to three carefully selected topics and develop them using concrete examples from important experiences or events. Most students see this as an opportunity to expand on other portions of the application, to cover aspects not covered by the application form, and/or to explain the qualifications that set them apart; consequently, they invest time in writing their essay. Also, important personal circumstances that have affected a student’s academic background can be discussed. Some admissions officers indicate that an essay sometimes may be a deciding factor in granting an interview. Several sources of help with the statement or essays are available:

- A health careers advisor can give an opinion about the essay’s appropriateness.
- The Writing Workshop, 178 Rockefeller Hall, which is open during the school year until the end of study week can help with presenting ideas clearly. There may be a consultant available during the summer.
- Anyone skilled in these aspects of the English language; perhaps a roommate, a friend who is editor of the *Sun*, a teaching assistant, an English major, etc., can correct grammar, spelling, and punctuation.
- Reading the essay aloud can help to identify problems with the flow of words. Pauses and hesitations by the reader indicate problems with the clarity of the ideas or the writing.
- Unbiased persons, e.g., advisor, friend, non-science student who will be candid, probably not a parent, can comment on the quality of the essay.

## Where to Apply

Some veterinary schools reserve a number of seats for their in-state residents. Candidates who want to determine their eligibility at given schools should use veterinary school web pages and *Veterinary Medical School Admission Requirements* (VMSAR), in the Career Library, 103 Barnes Hall.

## Responsibilities of the Student

Students are responsible for assuring that the VMCAS application is complete and has been transmitted to the designated schools. Some schools maintain online sites where applicants can monitor the status of the application. All applicants are encouraged to keep a copy of the application and to refer to it prior to interviews.

## Alternative Applications

Decisions about whether to apply to graduate and/or other alternative professional schools simultaneously with veterinary school or possibly the following year should be discussed with a health careers advisor.

## Letters of Recommendation

---

### Purpose of Letters of Recommendation

Letters of recommendation provide information and insight on personal qualities, such as professionalism and the academic record. Admissions committees want to hear from established professionals who will speak to a student's intellectual and human potential. The admissions office needs letters to evaluate an applicant's candidacy. An applicant's ability to secure a useful letter signifies the capacity to initiate, build, and sustain meaningful professional relationships – qualities that are essential to the effective practice of veterinary medicine.

Reference letters provide an objective, authoritative, and supportive external viewpoint on an applicant. They are called “recommendations” because they are expected to appreciate and highlight the candidate's strengths. A truly candid letter may comment on low points, unfortunate experiences, adversity, and obstacles. The supportive letter writer will point out these imperfections in the context of the positive qualities the applicant exhibits. When a letter writer is candid, the letter gains credibility. No one is perfect and the consummate letter writer acknowledges this while substantively supporting the applicant with anecdotes to back up generalizations.

Letter writers should refer to the fit between the applicant's strengths and a career in veterinary medicine. The practice of veterinary medicine requires professionals of good character who can work effectively under conditions of self-regulation, who have incorporated impeccable character standards, who know how to take personal responsibility, and who have a record of conducting confidential interpersonal communication.

VMCAS does not accept paper letters of recommendation, but rather eLORs (electronic letters of recommendation). Evaluations are typically due a few days prior to the VMCAS deadline.

### Whom to Ask for a Letter of Recommendation

Students should ask those with whom they are well acquainted and those who have shown they care about the students' academic and career goals. If in doubt about whom to ask, students should consult a health careers or faculty advisor or attend one of the many informational programs offered during the semester. Letters matter greatly in admission decisions. If students cannot think of three people who fit the criteria to be excellent personal referees, it may be wise to consider taking a “gap” or “bridge” year, during which relationships with strong, supportive mentors can be cultivated.

Which set of referees can help to build a balanced profile of an applicant's credentials and relevant experiences? One person will not be able to discuss all of the qualities of a successful applicant and, later, veterinary student. Taken together, the three letters of recommendation should cover many aspects of the applicant's credentials. Good sources of letters generally include a faculty member, your faculty advisor for more than a semester, a veterinary professional or professor for whom you've worked, an employer, club advisor, supervisor of voluntary activity or research experience, camp director, chaplain, coach, or other mentor. Most veterinary colleges require at least one letter from a veterinarian.

In general, it is best to ask at least one instructor from the college years to write a letter of recommendation. Most admissions offices prefer at least one letter from this source. This referee's letter of recommendation will demonstrate that an applicant has the support of the University. A letter from a teaching or laboratory assistant is sufficient, but not optimal. If a graduate student writes the letter, they can ask the faculty member in charge of the course or lab to ratify and co-sign it. Alternatively, if a professor does not know you well, you may ask a TA to submit notes to the professor upon which the letter can be based.



## How to Ask for a Letter of Recommendation

In general, students should ask for recommendations in a live conversation, in person. If necessary, ask by telephone or videoconference. Email is not an effective method from a strategic perspective. Here are four questions to pose to potential recommenders:

- “Would you be willing to write a letter of recommendation for me?”
- “Do you feel it can be a strong, supportive letter?”
- “May I make an appointment to come talk with you and review my qualifications?”
- “I’d like you to mention (fill in the blank) in my letter. Do you feel you could do that?” (The decision rests with the writer.)

If the answer to the first two questions is not an enthusiastic “yes,” be patient and hear the person out, even if it feels awkward. The lack of enthusiasm may relate to the writer’s own scarcity of time, or it may reflect an estimation of your candidacy. Both perspectives provide important information. At some point, you may indicate that you want to do further thinking before proceeding; or you may simply say, “Thank you for your time and feedback. I’ll try to find another recommender.”

Discuss your decision to retain or waive FERPA access to the letter and make sure you have reached an understanding on this with the writer. Also make sure the recommender knows the due date for the letter and will be able to meet it and the procedure for transmitting the letter to the appropriate destination.

## Material to Provide for Recommenders

- A résumé or summary including in some detail the development of your interest in veterinary medicine and career goals.
- A list of the schools that the student intends to apply to and any special programs that the school may offer which the student is interested in.
- A written statement regarding the decision to retain or waive FERPA right of access to the letter.

## How Many Letters of Recommendation are Required?

VMCAS applications must contain at least three, and no more than six, letters of recommendation.

## Transfer Students

Transfer students should read the Transfer Guidelines on the Health Careers web page and are encouraged to speak with a health careers advisor to get advice on their letter options.

## Waiving or Not Waiving Access to Letters: FERPA

The Family Educational Rights and Privacy Act (FERPA) of 1974 requires that students be advised of their rights concerning educational records, such as letters of recommendation. FERPA gives important rights, including:

- The right of students to inspect their student records.
- The right to challenge incorrect information in those records.
- The right to keep student records private.

Because FERPA gives students these rights, neither Cornell University nor other institutions or organizations can require you to waive these rights. University policy on access and release of student records is stated at the Cornell University policy website.

When you establish a file for letters of recommendation you should consider your FERPA right to access the letter(s). If you decide to waive access, inform the letter writer in writing that you have chosen to do so. If you do

not provide this information, by default you have not waived this right. You can discuss this choice with those writing your letters of recommendation. The following factors may be useful in making your decision.

#### Factors to consider in deciding to waive access

- If the recommender knows the student well and has said they can write a letter in support of their candidacy, the chances are slight that inaccuracies or unfair statements will be presented in the letter.
- An employer or a member of an admissions committee might tentatively draw one or more of the following conclusions:
  - The evaluation may be more candid if the writer knew that the candidate would not see it. As a result, *significantly* more weight may be assigned to such letters.
  - The candidate has nothing to conceal.

#### Factors to consider in deciding not to waive access

- A potential recommender may choose not to write a letter unless you waive the FERPA right of access.
- Students need to be prepared to explain their reasons for the choice to retain access during interview(s).
- An employer or a member of an admissions committee at a graduate or professional school receiving the letter might tentatively draw one or more of the following conclusions:
  - The evaluation may be less candid, as the writer knew that the candidate might see it. As a result, these letters may carry significantly less weight in the decision-making process. Some admissions committees may not consider letters in which applicants retained access to be as useful.
  - The candidate did not waive access in order to determine that recipients received full information.
  - The candidate feels a moral obligation to exercise their civil rights.

## **Interviews: Overview, Techniques, and Tips**

---

Interviews are an important part of the veterinary school application process. These interviews may be in one of two formats: traditional or multiple mini interviews (MMI). A handful of veterinary schools, including UC Davis, Michigan State, and Virginia-Maryland Regional, use the MMI format. Consider interviewing as a skill you need to develop, and use the following information to become a good interviewee.

### **Overview**

In order to be successful in a veterinary school interview, you need to make a convincing argument for:

- Why you want to be a veterinarian,
- How you are qualified to study veterinary medicine, and
- Why you want to study at the school at which you are interviewing.

You need to demonstrate enthusiasm and confidence. It is not enough to have written about your desire to study veterinary medicine in your personal statement. You must convince the veterinary school that you are the right candidate, because schools have far too many qualified applicants to choose from. The interview is where admissions officers distinguish between these students and create a balanced, diverse incoming class.

### **Interview techniques**

- Develop a firm handshake.
- Maintain eye contact.
- If asked a complex or long question, restate it before answering.
- Take time to think before answering; don't be afraid of short pauses.
- Learn to generate answers that are neither too long (over two minutes) nor too short (under twenty seconds).
- Help the interviewer. Signal with a gesture or a phrase when coming to the end of an answer.
- Frame the answer; for example, start with, "I see three main points...."
- Use "bridging" techniques to introduce and to expand on information. Answer the question asked, then "bridge" to introduce highlighted information. For example, if asked about research experience, an

appropriate response may be, “Yes, I did research for two summers....(then bridging) “Additionally, I was a peer drug and alcohol educator....”

### Interview tips

- Arrive early, but no more than ten minutes before the appointment.
- Treat everyone you meet on the day of the interview with the utmost respect. Every interaction is a part of the interview and is subject to analysis.
- Expect to be nervous at the outset. Nervousness is a natural function that can elevate performance.
- Emphasize the positive.
- Ask for explanations if questions are confusing and remember it is okay to say, “I don’t know.”
- Students should not belittle themselves or their experiences, with comments like, “I was just a volunteer....”
- Let enthusiasm and self-confidence show; be yourself, relax, and smile.
- **Respond to all interview invitations.**

### Your Conduct and Credit Rating

---

The VMCAS application used by the majority of veterinary schools in the United States includes questions related to felony and misdemeanor convictions as well as academic infractions (academic probation, institutional action) on its application. Applicants must be forthcoming with this information. Disclosure of violations does not disqualify students from veterinary schools, however failure to disclose violations may result in a rescinded acceptance offer. Many veterinary schools also conduct criminal background checks. Trustworthiness and good judgment are essential qualities for someone who seeks to enter veterinary school. Throughout your college career, be aware that actions that reflect negatively on your character, judgment, or honesty may seriously diminish your chances of admission to a veterinary school.

Most applicants must borrow to pay for veterinary school. To secure loans, you will need to have a good credit rating. Debts other than long-term educational debts (e.g., credit card debt, car loans, and other unpaid bills) must be responsibly repaid before entering veterinary school. Veterinary schools have rescinded an acceptance when a student’s credit rating was poor.

### Year-by-Year Timelines

---

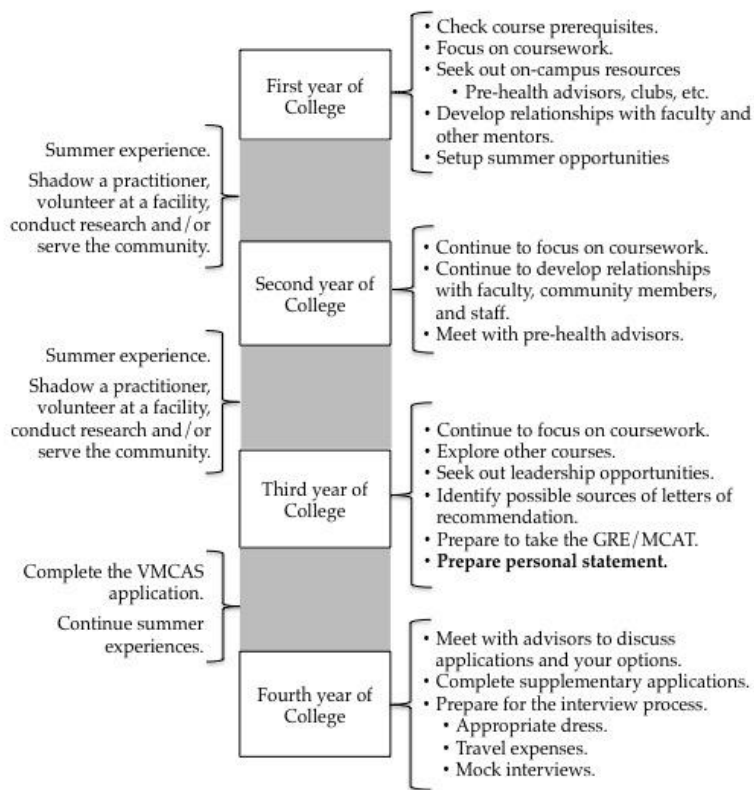
All pre-veterinary students are encouraged to use the materials in the Career Library, 103 Barnes Hall, and on the web to determine specific requirements for course work, standardized tests, and application procedures. The following timelines provide general guidelines for most health careers, with specific references to veterinary medicine.

Throughout your undergraduate career:

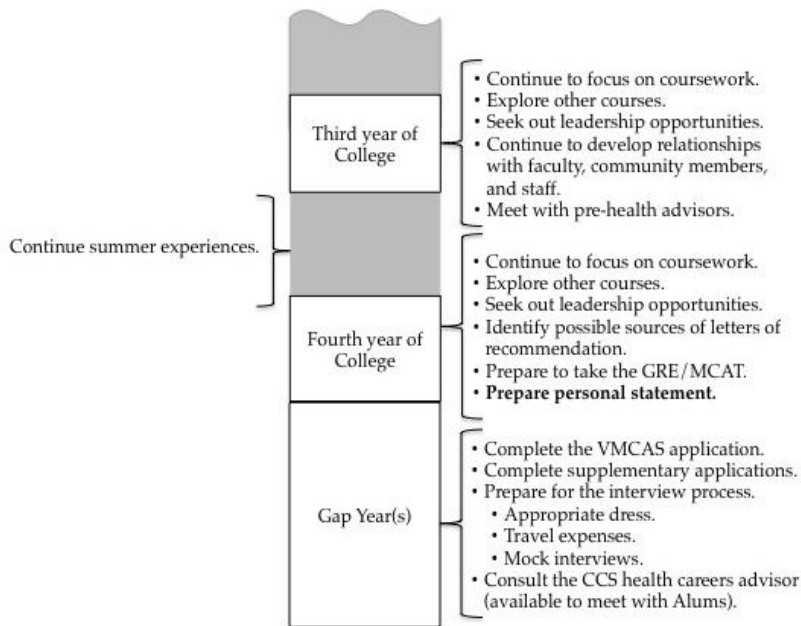
- Plan your course schedule in consultation with an academic advisor.
- Attend programs featuring professional school admissions speakers, practitioners, and others.
- Check out student health career organizations, volunteer and research opportunities, summer jobs, and internships to test and develop your career interests.
- Develop and frequently update an alternative career option to pursue if you don't go to a veterinary school or if you want a gap/bridge year or two.

The specific path a student takes through the undergraduate career to matriculation into professional school is varied. The pathway that may seem “traditional,” in which students graduate from Cornell in the spring and matriculate in the fall, usually requires applications in the summer preceding the fourth year of college. Students who take one or more “gap/bridge” year(s) after graduation from Cornell follow a different timeline.

## “Straight-Through” Timeline – Application after Third Year of College



## One Gap/Bridge Year Timeline – Application after Fourth Year of College



## Class Profiles and Applications to CVMCU

---

### Class Profile

	Class of 2019	Class of 2020	Class of 2021	Class of 2022	Class of 2023
Total in Class	104	101	121	120	120
Median Age	22	22	22	22	21
Median GPA	3.75	3.69	3.70	3.69	3.73
Median GRE	321	319	319	317	319
GRE-Verbal	162	161	160	159	160
GRE-Quantitative	159	158	159	158	159
Male	22	24	21	24	13
Female	82	77	100	96	107
New York	58	56	67	67	66
Out of State	46	45	54	53	54
Cornell	17	19	17	20	21
Biology	55	43	60	40	42
Agriculture/Animal Science	22	28	23	36	39
Other	27	30	38	44	39

### Health Careers Advisors

---

#### Career Services

Chelsea Rule, Ph.D.

Assistant Director and Manager, Health Careers Advising Program

200 Barnes Hall

Phone: 607.255.0542

E-mail: cr575@cornell.edu

Appointments available in person or by phone; contact Information Services Assistants in 103 Barnes Hall at 607.255.5296

#### College of Agriculture and Life Sciences

CALS Career Services

Pre-Health Advisors

140 Roberts Hall

Phone: 607.255.2257

#### College of Arts and Sciences

Ana Adinolfi

Career Counselor and Pre-Health Advisor

172 Goldwin Smith Hall

Phone: 607.255.4166

E-mail: anaadinolfi@cornell.edu

Naya Sou

Senior Academic Advisor

G17 Klarman Hall

Phone: 607.255.4166

E-mail: nts38@cornell.edu

**Office of Undergraduate Biology**

Location: 216 Stimson Hall  
Phone: 607.255.5233

**Advisors**

Beth Howland  
Director of Advising  
E-mail: bah18@cornell.edu

Megan Gallagher  
Assistant Director of Advising  
E-mail: meg327@cornell.edu

Jeff McCaffrey  
Assistant Director of Advising  
E-mail: jm298@cornell.edu

Laura Schoenle  
Coordinator, Undergraduate Research and Honors  
E-mail: las86@cornell.edu

**College of Human Ecology**

Shaun Gendrue  
Assistant Director, Student & Career Development  
113 Academic Surge A  
Phone: 607.255.1829  
E-mail: sgendrue@cornell.edu

**College of Engineering**

Benjamin Martin  
Assistant Director, Engineering Advising  
180 Rhodes Hall  
Phone: 607.255.7414  
E-mail: bem87@cornell.edu

**Cornell Abroad**

TBD  
Education Abroad Advisor  
300 Caldwell Hall  
Phone: 607.255.6224  
E-mail: abroad@cornell.edu

**College of Veterinary Medicine**

Jennifer Mailey  
Director, Admissions  
S2009 Schurman Hall  
Phone 607.253-3702  
E-mail: jam333@cornell.edu

# Cornell Career Services

103 Barnes Hall • 255-5296 • [career.cornell.edu](http://career.cornell.edu)