In addition to coursework, virtually all professional schools require some form of standardized test prior to consideration of a student's admission application. These tests are usually taken in the spring before application is made and are included in the spring admission cycle, which begins in April.

Applications to professional schools are made a year before expected matriculation, usually between June and October. This means that the coursework included on the standardized entrance test must be completed by the end of the junior year of college in order to move straight from college to professional schools the following August without a “gap” year. With this being said, students should be aware that completing requirements to apply after the senior year would allow them to spread out the required courses, pursue minors or second majors, or study abroad, which may increase the success of students in admissions to professional schools. In the application year, early application to professional schools (by August 1) is strongly recommended, as interviews and acceptances go first to the earliest applicants. (Physician assistant schools start in either August or January, so their application cycle begins in April.)

Professional school applications are made directly to Centralized Application Services for each type of graduate program. The American Medical College Application Service (AMCAS) is the agent for allopathic medical schools, the American Association of Dental Schools Application Service (AADSAS) is the agent for many dental schools, the American Association of Colleges of Osteopathic Medicine (AACOMAS) is the agent for osteopathic medical schools, the Central Application Service for Physician Assistants (CASPA) is the agent for physician assistant schools, and the Veterinary Medical College Application Service (VMCAS) is the agent for most veterinary medical schools. Application information is available from those services directly and through the Canvas Pre-professional Programs group resources. Medical, dental, PA and vet schools not subscribing to the centralized application service must be contacted individually.

Students interested in other post college health careers such as Optometry, Podiatric Medicine, Chiropractic Medicine, Genetic Counseling, etc. are encouraged to declare a Pre-medicine interest track as well, to have access to the resources and Health Careers Advisory Committee for assistance in planning their programs of study.

Pre Medicine Recommended Courses

Allopathic and osteopathic medical schools generally require the categories below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 111</td>
<td>Principles of Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 111L</td>
<td>Principles of Biology I Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIO 112</td>
<td>Principles of Biology II</td>
<td>4</td>
</tr>
<tr>
<td>BIO 112L</td>
<td>Principles of Biology II Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIO 277</td>
<td>Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 277L</td>
<td>Human Physiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHE 111</td>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>CHE 112</td>
<td>General Chemistry I Laboratory</td>
<td></td>
</tr>
</tbody>
</table>
Pre Dentistry, Pre Medicine, Pre Physician Assistant, and Pre Veterinary Medicine

CHE 114 General Chemistry II
CHE 115 General Chemistry II Laboratory

Organic Chemistry with Laboratory
CHE 351 Organic Chemistry I
CHE 352 Organic Chemistry II
CHE 354 Organic Chemistry Laboratory

Biochemistry 3-6
Select one option of the following:

Option A
CHE 420 Chemical Principles of Biochemistry

Option B
CHE 556 Biochemistry I
CHE 557 Biochemistry II

Option C
BIO 435 Biochemistry: Metabolic Regulation in Health and Disease

Physics with Laboratory 8
Select one option of the following:

Option A
PHY 211 General Physics I
PHY 211L General Physics Lab I
PHY 212 General Physics II
PHY 212L General Physics Lab II

Option B
PHY 291 General Physics I with Calculus
PHY 291L General Physics I with Calculus Lab
PHY 292 General Physics II with Calculus
PHY 292L General Physics II with Calculus Lab

Mathematics 6
A few schools require mathematics through calculus, while nearly all require statistics.
MAT 191 Calculus I
STA 108 Elementary Introduction to Probability and Statistics
or STA 271 Fundamental Concepts of Statistics

College Writing 6
ENG 101 College Writing I
ENG 102 College Writing II

Behavioral Sciences 6
PSY 121 General Psychology
SOC 101 Introduction to Sociology

Other courses that may be required include those detailed below.

Code Title Credit Hours

Cell Biology and Genetics 6
BIO 355 Cell Biology
BIO 392 Genetics

Histology with Laboratory 4
BIO 472 Histology

Pre Dentistry Recommended Courses

Dental school preparatory course requirements are usually much like those for medical school; however, they may also require anatomy in addition to the classes listed above.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 271</td>
<td>Human Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>BIO 271L</td>
<td>Human Anatomy Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Pre Physician Assistant Recommended Courses

Physician assistant programs are more variable in requirements than medical schools. While still requiring the same Biology and Chemistry courses as medical and dental schools, they typically do not require Physics courses, but add courses in Anatomy, Microbiology, Genetics, and Medical terminology.

Pre Veterinary Medicine Recommended Courses

Veterinary school course requirements are considerably more extensive than those for medical or dental schools. In addition to specifying all of the above courses in mathematics, chemistry, and biology, these programs typically require or recommend more courses in animal science, general microbiology, animal nutrition, and possibly some business courses. Several hundred hours of work experience with animals or in a veterinarian’s practice is required. Students interested in veterinary school should make contact with the school and with the advisory committee at an early stage of their undergraduate careers, to discuss how to meet these requirements.