Pre-Health Recommended Courses

*The following information was compiled from the Iowa State University Pre-Health Website. Their contact information is available to the right for additional questions!

Most Medical Schools Require:
- English (ENGL 150, 250)
- Biology (BIOL 211, 211L and 212, 212L)
- General chemistry (CHEM 177, 177L and 178,178L OR CHEM 201/201L)
- Organic chemistry (CHEM 331, 331L and 332, 332L)
- Mathematics (1 or 2 semesters of calculus, depending on medical school)
- General physics with laboratory (PHYS 111, 112 or PHYS 221, 222)
- Advanced biology (one course; examples BIOL 313, 314, 335, 351, 423)
- Biochemistry (required by a few medical schools outside Iowa, can be taken as BBMB 404 and 405, or 420)
- Sociology/Psychology coursework is recommended for the new MCAT

Most Common Pharmacy School Pre-Requisites Include:
- English and Speech (ENGL 150, 250, SP CM 212)
- Economics (Econ 101 and/or 102)
- Philosophy (230)
- Mathematics (one semester of calculus)
- Statistics (STAT 101 or 104)
- Computer Science (COM S 103)
- Biology (BIOL 211, 211L and 212, 212L)
- Anatomy and Physiology (BIOL 255/L and 256/L)
- Inorganic Chemistry (CHEM 177, 177L and 178, 178L)
- Organic Chemistry (CHEM 331, 331L and 332, 332L)
- Physics (PHYS 111, 112 or 221, 222)
- Microbiology (302, 302L)

Courses Required for Admission to Most Dental Schools:
- English (ENGL 150, 250)
- General chemistry with laboratory (CHEM 177, 177L and 178, 178L)
- Organic chemistry with laboratory (CHEM 331, 331L and 332, 332L)
- Physics with laboratory (PHYS 111, 112 or PHYS 221, 222)
- Biology with laboratory (BIOL 211, 211L and 212, 212L)
- Anatomy, Physiology (BIOL 255, 256)
## Veterinary School Required Undergrad Coursework

<table>
<thead>
<tr>
<th>Course and Title</th>
<th>Semester Hours Required</th>
<th>ISU Course Equivalent</th>
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</thead>
<tbody>
<tr>
<td><strong>English Composition</strong></td>
<td>6 semester hours</td>
<td>English 150, 250, 302, 309, 312, or 314</td>
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<tr>
<td><strong>Oral Communication</strong></td>
<td>3 semester hours</td>
<td>Speech Communications 212, 223, or 312, OR Ag Ed 311 OR Communications Studies 102 or 214 OR English 312</td>
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<tr>
<td><strong>General Chemistry</strong></td>
<td>2 semesters lecture for biological science majors with one semester lab.</td>
<td>7 semester hours</td>
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<tr>
<td><strong>Organic Chemistry</strong></td>
<td>2 semesters lecture with one semester lab.</td>
<td>7 semester hours</td>
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<tr>
<td><strong>Biochemistry</strong></td>
<td>One semester, upper-level course (no lab required).</td>
<td>3 semester hours</td>
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<tr>
<td><strong>Physics</strong></td>
<td>First semester of a two-semester series with lab.</td>
<td>4 semester hours</td>
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<tr>
<td><strong>General Biology</strong></td>
<td>One year series with lab each term.</td>
<td>8 semester hours</td>
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<tr>
<td><strong>Genetics</strong></td>
<td>Must include both Mendelian and molecular genetics (no lab required course).</td>
<td>3 semester hours</td>
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<tr>
<td><strong>Mammalian Anatomy and/or Physiology</strong></td>
<td>(no lab required)</td>
<td>3 semester hours</td>
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<tr>
<td><strong>Arts, Humanities and/or Social Sciences</strong></td>
<td>8 semester hours</td>
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<tr>
<td><strong>Electives</strong></td>
<td>8 semester hours</td>
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