

## Cornell Courses that Satisfy Most Medical and Dental School Requirements

Subject	Cornell University Courses
<b>Biology</b>	<p style="text-align: center;"><i>Offered fall, spring, and summer</i></p> <p>BIOMG 1350 Introductory Biology: Cell and Developmental Biology  <b>AND</b> BIOG 1440 <b>or</b> 1445* Introductory Biology: Comparative Physiology  <i>*BIOG 1445 is an individualized instruction format course.</i>  <b>AND</b> BIOG 1500 Investigative Biology Laboratory</p> <p style="text-align: center;"><i>Offered prior to 2014</i></p> <p>BIOG 1107 Introductory Biology I: From Atom to Cell  <b>AND</b> BIOG 1108 Introductory Biology II: From Cell to Biosphere  <b>AND</b> BIOG 1500 Investigative Biology Laboratory</p>
<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>)  <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> <li>• BIOMG 3330 Principles of Biochemistry: Proteins, Metabolism, and Molecular Biology (<i>offered summer</i>)</li> </ul>
<b>Upper-level Biology</b>	<p><i>Although not required, students find that taking courses in the following areas is useful in understanding advanced concepts and providing greater depth of preparation for MCAT exams:</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>)</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> </ul> <p><i>Other courses in the areas of cell biology, evolutionary biology, genetics, microbiology, neurobiology, behavior, nutrition, and physiology may be useful. Students are encouraged to consult with a health careers advisor to select courses.</i></p>
<b>General Chemistry</b>	<p style="text-align: center;"><b>Option 1</b></p> <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> <p style="text-align: center;"><b>Option 2</b></p> <p>CHEM 2150 Honors General and Inorganic Chemistry (<i>offered fall</i>)</p> <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 is highly recommended</li> <li>◦ Some medical schools require a full-year of general chemistry</li> </ul> <p style="text-align: center;"><b>Option 3</b></p> <p style="text-align: center;"><i>For Engineering Students Only</i></p> <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>)</p>
<b>Organic Chemistry</b>	<p style="text-align: center;"><b>Option 1</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>Option 2</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><b>Organic Chemistry, cont'd.</b></p>	<p style="text-align: center;"><b>Option 3</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>○ A single-semester organic chemistry course</li> <li>○ Some medical schools require a full-year of organic chemistry</li> <li>○ Schools that do not require a full-year organic chemistry sequence usually require a one-semester biochemistry course and may also require biochemistry lab.</li> </ul> <p><i>Students are encouraged to explore requirements of medical schools before enrolling in this course.</i></p>
<p><b>English</b></p>	<p>Most medical 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. Students are encouraged to check the requirements of specific medical schools as the English requirement varies.</p>
<p><b>Math</b></p>	<p style="text-align: center;"><b>Calculus</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>Statistics</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>Option 1</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>Option 2</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>Option 3</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>Option 4</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>
<p><b>Social Science</b></p>	<p>The "Psychological, Social, and Biological Foundations of Behavior" section of the MCAT2015 covers topics taught in social science courses. A student can prepare for this section by taking courses in Sociology, Psychology, Human Development, and Development Sociology. Students are encouraged to consult with a health careers advisor to select courses.</p> <p>Some, but not all, medical schools require courses in Psychology and/or Sociology.</p>