

Cornell Courses that Satisfy Most Medical and Dental School Requirements

Subject	Cornell University Courses
Biology	<p style="text-align: center;"><i>Offered fall, spring, and summer</i></p> <p>BIOMG 1350 Introductory Biology: Cell and Developmental Biology AND BIOG 1440 or 1445* Introductory Biology: Comparative Physiology <i>*BIOG 1445 is an individualized instruction format course.</i> AND 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 AND BIOG 1108 Introductory Biology II: From Cell to Biosphere AND BIOG 1500 Investigative Biology Laboratory</p>
Biochemistry	<p><i>Any of the following:</i></p> <ul style="list-style-type: none"> • BIOMG 3310 Principles of Biochemistry: Proteins and Metabolism (<i>offered fall</i>) AND BIOMG 3320 Principles of Biochemistry: Molecular Biology (<i>offered spring</i>) • BIOMG 3300 Biochemistry, Individualized Instruction (<i>offered fall, spring</i>) • BIOMG 3350 Principles of Biochemistry: Proteins, Metabolism, and Molecular Biology (<i>offered spring</i>) • NS 3200 Introduction to Human Biochemistry (<i>offered fall</i>) • BIOMG 3330 Principles of Biochemistry: Proteins, Metabolism, and Molecular Biology (<i>offered summer</i>)
Upper-level Biology	<p><i>Although not required, students find that taking courses in the following areas useful in understanding advanced concepts and providing greater depth of preparation for MCAT exams:</i></p> <ul style="list-style-type: none"> • BIOMG 2800 Genetics Lecture (<i>offered fall, spring, summer</i>) <ul style="list-style-type: none"> ◦ BIOMG 2801 Genetics Lab (<i>offered fall, spring, summer</i>) • BIOMI 2900 General Microbiology Lectures (<i>offered fall, spring, summer</i>) • NS 3410 Human Anatomy and Physiology (<i>offered spring</i>) <ul style="list-style-type: none"> ◦ NS 3420 Human Anatomy and Physiology Laboratory (<i>offered spring</i>) <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>
General Chemistry	<p style="text-align: center;">Option 1</p> <p>CHEM 2070 General Chemistry I (<i>offered fall, summer</i>) AND CHEM 2080 General Chemistry II (<i>offered spring, summer</i>)</p> <p style="text-align: center;">Option 2</p> <p>CHEM 2150 Honors General and Inorganic Chemistry (<i>offered fall</i>)</p> <ul style="list-style-type: none"> ◦ An accelerated one-semester course leading directly to organic chemistry ◦ An AP score of 5 on Chemistry is highly recommended ◦ Some medical schools require a full-year of general chemistry <p style="text-align: center;">Option 3</p> <p style="text-align: center;"><i>For Engineering Students Only</i></p> <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>
Organic Chemistry	<p style="text-align: center;">Option 1</p> <p>CHEM 3570 Organic Chemistry for the Life Sciences (<i>offered fall, summer</i>) AND CHEM 3580 Organic Chemistry for the Life Sciences (<i>offered spring, summer</i>) AND CHEM 2510 Introduction to Experimental Organic Chemistry (<i>offered fall, spring, summer</i>)</p> <p style="text-align: center;">Option 2</p> <p>CHEM 3590 Honors Organic Chemistry I (<i>offered spring</i>) AND CHEM 3600 Honors Organic Chemistry II (<i>offered fall</i>) AND CHEM 2510 Introduction to Experimental Organic Chemistry (<i>offered fall, spring, summer</i>)</p>

<p>Organic Chemistry, cont'd.</p>	<p style="text-align: center;">Option 3</p> <p>CHEM 3530 Principles of Organic Chemistry (<i>offered fall</i>) AND CHEM 2510 Introduction to Experimental Organic Chemistry (<i>offered fall, spring, summer</i>)</p> <ul style="list-style-type: none"> ○ A single-semester organic chemistry course ○ Some medical schools require a full-year of organic chemistry ○ Schools that do not require a full-year organic chemistry sequence usually require a one-semester biochemistry course and may also require biochemistry lab. <p><i>Students are encouraged to explore requirements of medical schools before enrolling in this course.</i></p>
<p>English</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>Math</p>	<p style="text-align: center;">Calculus</p> <ul style="list-style-type: none"> • MATH 1106 Calculus for the Life and Social Sciences (<i>offered spring</i>) • MATH 1110 Calculus I (<i>offered fall, spring, summer</i>) • MATH 1910 Calculus for Engineers (<i>offered fall, spring, summer</i>) <p style="text-align: center;">Statistics</p> <ul style="list-style-type: none"> • STSCI 2150 Introductory Statistics for Biology (<i>offered fall, spring</i>) • BTRY 3010 Biological Statistics I (<i>offered fall</i>) • MATH 1710 Statistical Theory and Application in the Real World (<i>offered fall, spring</i>) • AEM 2100 Introductory Statistics (<i>offered fall</i>) • ILRST 2100 Introductory Statistics (<i>offered fall, winter, spring, summer</i>) • PSYCH 3500 Statistics and Research Design (<i>offered fall, summer</i>) • ECON 3130 Statistics and Probability (<i>offered fall</i>) • SOC 2010 Evaluating Statistical Evidence (<i>offered fall</i>) • ENGRD 2700 Basic Engineering Probability and Statistics (<i>offered fall, spring, summer</i>) • CEE 3040 Uncertainty Analysis in Engineering (<i>offered fall</i>) • PAM 2100 Introduction to Statistics (<i>offered spring</i>)
<p>General Physics</p>	<p style="text-align: center;">Option 1</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>) AND PHYS 1102 General Physics II (<i>offered spring, summer</i>)</p> <p style="text-align: center;">Option 2</p> <p style="text-align: center;"><i>Calculus-based</i></p> <p>PHYS 2207 Fundamentals of Physics I (<i>offered fall</i>) AND PHYS 2208 Fundamentals of Physics II (<i>offered spring</i>)</p> <p style="text-align: center;">Option 3</p> <p>PHYS 1112 Physics I: Mechanics & Heat (<i>offered fall, spring, summer</i>) AND PHYS 2208 Fundamentals of Physics II (<i>offered spring</i>)</p> <p style="text-align: center;">Option 4</p> <p style="text-align: center;"><i>For Engineering Students</i></p> <p>PHYS 1112 Physics I: Mechanics & Heat (<i>offered fall, spring, summer</i>) AND PHYS 2213 Physics II: Electromagnetism (<i>offered fall, spring, summer</i>) AND 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>Social Science</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>

AAMC Core Competencies

The Association of American Medical Colleges (AAMC) has outlined fifteen core competencies that should be demonstrated by entering medical students. These competencies are separated into four