



BASIC ACADEMIC REQUIREMENTS FOR MEDICAL SCHOOL ADMISSION

BIOLOGY/LIFE SCIENCES	one year, with laboratory experience
<i>Caltech course options:</i>	
Bi 1	The Biology & Biophysics of Viruses
Bi 8	Introduction to Molecular Biology
Bi 9	Cell Biology
Bi 10	Cell Biology Laboratory (students are advised to take this during their first or second years when they have priority in the Bi 10 lottery by nature of their year of study)
Other upper division courses which will provide a basic background for the study of molecular and cell biology and biochemistry in medical school are highly recommended. Some schools require biochemistry. Highly recommended upper division courses include: Bi 110, 115, 117, 122, 123 (lab), 188, and 190.	
CHEMISTRY	two years, with laboratory experience
One year each general and organic chemistry or courses which will provide adequate background to study biochemistry and molecular biology.	
<i>Caltech course options:</i>	
Inorganic Chemistry Requirement	
Ch 1 ab	General Chemistry
Ch 3 a	Fundamental Techniques of Experimental Chemistry
Organic Chemistry Requirement	
Ch 41 abc	Organic Chemistry
Ch 3 b	Experimental Procedures of Synthetic Chemistry
or Ch 4 a	Synthesis & Analysis of Organic and Inorganic Compounds
Ch 4 b	Synthesis & Analysis of Organic and Inorganic Compounds
(optional)	
Recommended upper division courses include Bi/Ch 110, 111 and 113 or Ch 24 ab, Biophysical Chemistry.	
PHYSICS	one year, with laboratory experience
<i>Caltech course options:</i>	
Ph 1 abc	Classical Mechanics and Electromagnetism
Ph 2 ab	Statistical Physics, Waves, and Quantum Mechanics
Ph 3	Physics Laboratory (must take if Ph1b & c Analytical Track was taken)
or Ph 8 bc	Experiments in Electromagnetism
MATHEMATICS	one year
<i>Caltech course options:</i>	
Ma 1 abc	Calculus of one & Several Variables & Linear Algebra
Ma 2 ab	Differential Equations, Probability & Statistics
HUMANITIES & EXPOSITORY WRITING	
English	1 year (3 quarters) of English courses, such as 128, 133, 137, 138, 141, 181
<i>Caltech course options:</i>	
Any of the courses which meet the Caltech graduation requirements in humanities and writing. Some medical schools have very specific English and writing requirements.	
SPECIAL NOTE	
If you are exempt from the introductory level courses in any of the divisions listed above, be sure to take more advanced level courses to meet the medical school requirements. Few medical schools do have other course requirements for admission. Please read the MSAR (Medical School Admissions Requirements) for the specific requirements for each school to which they plan to apply. There is no particular medical school requirement for a major in biology or chemistry, nor are courses in human biology a particular advantage either in the admissions process or in academic success once in medical school. Caltech graduates with majors in physics, engineering, chemical engineering, applied mathematics and literature have been accepted to medical school in the past.	