

It is recommended that all subjects be taken on grades, except for those taken during freshman year pass no record. In addition, it is recommended that AP credit not be used toward fulfilling school requirements.

| SUBJECTS REQUIRED BY 10 OR MORE U.S. MEDICAL SCHOOLS | RECOMMENDED CORRESPONDING MIT SUBJECTS | COMPLETE PRIOR TO MCAT |
|--|---|------------------------------|
| Biology | <ul style="list-style-type: none"> ❑ Introductory Biology - 7.012, 7.013 or 7.014 ❑ Introduction to Experimental Biology and Communication - 7.02, Laboratory Fundamentals in Biological Engineering – 20.109, Introductory Experimental Biology and Communication - 10.702 or Experimental Molecular Neurobiology - 9.12 | ✓ |
| Chemistry NOTE: All medical schools require 4 semesters of chemistry. | <ul style="list-style-type: none"> ❑ Principles of Chemical Science - 5.111 or 5.112* or Introduction to Solid -State Chemistry - 3.091 ❑ Laboratory Chemistry - 5.310 or Introductory Chemical Experimentation - 5.311 ❑ Organic Chemistry I - 5.12 ❑ Organic Chemistry II - 5.13** <p>* *Some medical schools will accept one of the following courses <u>in place</u> of 5.13, however they are not individually required by schools. (each school should be contacted to determine whether such substitutions will be accepted):</p> <ul style="list-style-type: none"> ▪ Principles of Inorganic Chemistry I - 5.03 or ▪ Thermodynamics and Kinetics - 5.60 or ▪ Thermal-Fluids Engineering 1 - 2.005 or ▪ Thermodynamics of Materials - 3.046 or ▪ General Biochemistry - 7.05 or ▪ Biological Chemistry I - 5.07 or ▪ Thermodynamics of Biomolecular Systems – 20.110J | ✓ ✓ ✓ |
| Biochemistry | <ul style="list-style-type: none"> ❑ General Biochemistry - 7.05 or Biological Chemistry I - 5.07 (Strongly recommended for Harvard – HST Program) | |
| Physics | <ul style="list-style-type: none"> ❑ 8.01, 8.01L, 8.011, or 8.012 ❑ 8.02 or 8.022 <p>MIT currently does not have a full lab component to any Physics courses until the Junior Year (for Physics majors only). It is recommended that you contact schools directly to find out if they will require you to take additional subjects that includes lab.</p> | ✓ |
| Calculus | <ul style="list-style-type: none"> ❑ 18.01 18.01A, or 18.014 ❑ 18.02, 18.02A, 18.022, 18.023, or 18.024 <p>(Differential Equations - 18.03 is required for Harvard – HST Program)</p> | |
| English | <p>Two terms of Literature or writing subjects. We suggest taking a 9-12 unit 21W Exposition and Rhetoric course one term. The other term could include other 21W courses (preferably Science Writing or Technical Communication Studies,) as well as 21L courses concentrating in Literature. In addition, courses that meet the CI-H requirement may also be used.</p> | |

*“Knowledge of calculus equivalent to 18.01” is recommended for those students choosing to enroll in 5.112. Refer to the MIT [Bulletin](#) for more information.

Additional Requirements: This list of recommended subjects is based upon the subjects most medical schools require. Individual schools may have additional requirements such as statistics, behavioral and social sciences, and languages. Please refer to the most recent edition of the [Medical School Admission Requirements \(MSAR\)](#) as well as individual schools’ websites for further information.