



Preparing to Enter Medical Colleges (MD/DO)

The following selection of Medical Schools offer either a Doctor of Medicine (M.D.) or Doctor of Osteopathic Medicine (D.O.) degree. To see a complete list of US Medical Institutions, please visit the [Association of American Medical Colleges \(AAMC\)](#) and [American Association of College of Osteopathic Medicine \(AACOM\)](#).

- [Albany Medical College](#)
- [Albert Einstein College of Medicine](#)
- [Columbia University Vagelos College of Physicians and Surgeons](#)
- [Icahn School of Medicine at Mount Sinai](#)
- [Jacobs School of Medicine and Biomedical Sciences, University at Buffalo, SUNY](#)
- [Lake Erie College of Osteopathic Medicine](#)
- [New York Institute of Technology College of Osteopathic Medicine](#)
- [New York Medical College](#)
- [NYU Grossman School of Medicine](#)
- [NYU Long Island School of Medicine](#)
- [Renaissance School of Medicine at Stony Brook University](#)
- [SUNY Downstate Health Sciences University](#)
- [SUNY Upstate Medical University](#)
- [Touro College of Osteopathic Medicine](#)
- [University of Rochester School of Medicine and Dentistry](#)
- [Weill Cornell Medicine](#)
- [Zucker School of Medicine at Hofstra/Northwell](#)

Required Courses¹: Students interested in applying to Medical Colleges must take a rigorous course load demonstrating willingness to challenge themselves. Completion of following courses is required before applying for admissions into Medical Colleges:

- **General Biology I & II:** BIOL105 AND BIOL 106
- **Cell Biology:** BIOL 286
- **General Chemistry I & II:** CHEM 113 AND CHEM 114
- **Organic Chemistry I & II:** CHEM 251 AND CHEM 252
- **Biochemistry:** CHEM 371
- **General Physics I & II:** PHYS 121 AND PHYS 122 **OR** PHYS 145 AND PHYS 146
- **Statistics:** BIOL 230 OR DATA 205 OR PSYCH 107
- **Psychology & Sociology:** 200 – levels courses
- **Calculus:** MATH 141 or better
- Two English courses.

Recommended Courses: To be competitive candidate, students should consider taking additional science courses. Below are some suggested courses.

- BIOL 201 – General Microbiology
- BIOL 226 – Comparative Anatomy
- BIOL 285 – Genetics
- BIOL 325 & 326 – Anatomy & Physiology
- BIOL 360 – Histology
- BIOL 365 – Developmental Biology
- BIOL 366 – Immunology
- BIOL 367 – Biology of Cancer
- BIOL 369 – Virology
- BIOL 373 – Neurobiology
- CHEM 372 – Biochemistry II
- CHEM 376 – Biochemistry Lab
- 4 courses in Social Sciences (Sociology, Psychology, and Anthropology)
- Several courses with emphasis on the US healthcare system (Cities and Social Medicine).
- 2 courses in Humanities (History, Ethics, Philosophy, Art, etc.)

Miscellaneous Requirements²:

- Bachelor's Degree
- Competitive cumulative and pre-requisite GPA
- Medical College Admissions Exam: [MCAT](#)
- Academic Research Experience
- Clinical experience & shadowing: EMT, CNA, scribe, etc. (paid or unpaid)
- Community service, volunteering, and altruistic endeavors (unpaid)
- Demonstrate leadership: club board member, mentoring, teaching, etc.
- Committee letter or 3 letters of recommendation

¹ – This is a comprehensive list of courses needed to apply to most Medical Colleges. The exact prerequisite courses may vary between schools and must be verified with individual schools. Students are strongly encouraged to consult with their respective schools before applying.

² – These requirements differ between programs and must be verified before applying. MCAT must be taken within three years of applying.