



Pre-Health Advising

Pre-Med Course Planning Guide

REQUIRED BY MOST PROGRAMS

Course Subjects	Course Numbers and Semesters Offered	MCAT Topic?
General Chemistry with lab	CHEM 11a (fall, summer) - <i>Strongly recommend MATH 5a or placement into MATH 10a</i> CHEM 11b (spring, summer) - <i>prereq: Chem 11a</i> CHEM 18a lab (fall, summer) CHEM 18b lab (spring, summer) OR CHEM 15a Intensive (fall) CHEM 15b Intensive (spring) - <i>prereq: Chem 15a</i> CHEM 19a Intensive lab (fall) CHEM 19b Intensive lab (spring)	Yes
Biology with lab	BIOL 14a (fall, spring) BIOL 15b (fall, spring, summer) BIOL 12b lab (fall, summer) – <i>prereq: BIOL 14a, BIOL 15b, and sophomore standing</i> OR BIOL 18b lab, Biology majors only (fall) - <i>prereq: BIOL 15b, and sophomore standing</i> BIOL 12a lab (spring, summer) - <i>prereq: BIOL 12b, BIOL 14a, BIOL 15b, and sophomore standing</i> OR BIOL 18a lab, Biology majors only (spring) - <i>prereq: BIOL 18b, BIOL 14a, and sophomore standing</i>	Yes
Organic Chemistry with lab	CHEM 25a (fall, summer) – <i>prereq: 1 year of General Chemistry with lab</i> CHEM 25b (spring, summer) CHEM 29a lab (fall, summer) CHEM 29b lab (spring, summer)	Yes
Physics with lab	PHYS 10a (fall) PHYS 10b (spring) PHYS 18a lab (fall) PHYS 18b lab (spring)	Yes

REQUIRED BY SOME PROGRAMS

Course Subjects	Course Numbers and Semesters Offered	MCAT Topic?
Biochemistry	BCHM 88b (fall, summer) – <i>prereq: BIOL 14a, BIOL 15b, and 1 year of organic chem. w/lab</i> OR BCHM 100a (fall) – <i>prereq: 1 year of organic chem w/lab</i>	Yes

Statistics	MATH 8a (fall, spring, summer) OR BIOL 51a (spring) – <i>prereq: BIOL 14a and BIOL 15b</i> OR PSYC 51a (fall, spring, summer) – <i>prereq: PSYC 10a or instructor permission</i>	Yes
Intro Psychology	PSYC 10a (fall, spring, sometimes summer)	Yes
Sociology	SOC 1a (fall, spring, summer), other options available NOTE: Sociology course strongly recommended if not majoring/minoring in HSSP, psychology, sociology, or anthropology.	Yes
Calculus*	MATH 10a (fall, spring, summer) – <i>prereq. MATH 5a or placement</i>	No
2 semesters of English/Writing	Can be completed as follows: <ul style="list-style-type: none"> • UWS, CSEM, and/or FYS • Any English dept. course • A non-science designated WI and taught in the English language 	Helpful

* Many schools require 1-2 semesters of college mathematics, and calculus can be used to fulfill this requirement. Statistics or other college level math courses will also fill this requirement. Many schools still **recommend** calculus, so be sure to check the requirements of individual schools in which you are interested. The following schools require calculus:

- California Northstate University College of Medicine
- Charles R. Drew University of Medicine and Science
- Johns Hopkins University (*will accept statistics in lieu of calculus*)
- Uniformed Services University of the Health Sciences School of Medicine (*will accept statistics in lieu of calculus*)
- University of California-Riverside
- Virginia Tech Carilion
- Washington University-St. Louis

** Physiology is not required by programs but would be helpful for MCAT: BIOL 42a (fall) – *prereq: BIOL 14a & BIOL 15b*.

Prerequisite courses vary from school to school. It's very important that you check the websites of schools you know you want to apply to in order to make sure you're taking the courses they require. The courses in this table are a summary of the most common requirements.

Sophomore Check-In with pre-health advisors would be helpful and is highly recommended. More information could be found on <https://www.brandeis.edu/academic-services/pre-health-advising/prepare/sophomore-check-in.html>