



## Pre-Health Advising

# Pre-Optometry Course Planning Guide

### REQUIRED BY MOST PROGRAMS

Course Subjects	Course Numbers and Semesters Offered	OAT?
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) <b>OR</b> 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 15b</i> <b>OR</b> BIOL 18b lab, Biology majors only (fall) - <i>prereq: BIOL 15b</i>  BIOL 12a lab (spring, summer) - <i>prereq: BIOL 12b &amp; 14a</i> <b>OR</b> BIOL 18a lab, biology majors only (spring) - <i>prereq: BIOL 14a &amp; 18b</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
Statistics	MATH 8a (fall, spring, summer) <b>OR</b> BIOL 51a (spring) – <i>prereq: BIOL 14a &amp; BIOL 15b</i> <b>OR</b> PSYC 51a (fall, spring, summer) – <i>prereq: PSYC 10a or instructor permission</i>	No
2 semesters of English/Writing	Can be completed as follows: <ul style="list-style-type: none"> <li>• UWS, CSEM, and/or FYS</li> <li>• Any English dept. course</li> <li>• A course in a related department with literature in the title (e.g., HSSP 118: Viewing medicine and Health Policy through the lens of literature)</li> <li>• A non-science designated WI and taught in the English language</li> </ul>	Helpful

Calculus	MATH 10a (fall, spring, summer) – <i>prereq. MATH 5a or placement</i>	No
Intro Psychology	PSYC 10a (fall, spring)	No
Biochemistry	BCHM 88b (fall, summer) – <i>prereq: BIOL 14a &amp; 15a; 1 year of organic chem. w/lab</i> <b>OR</b> BCHM 100a (fall, spring) – <i>prereq: 1 year of organic chem w/lab</i>	No
Microbiology	BIOL 132a (fall) - <i>prereq: BIOL 14a and BIOL 15b</i> BIOL 159a lab (spring) - <i>prereq: BIOL 12a and 12b or BIOL 18a and 18b</i>	No

### REQUIRED BY SOME PROGRAMS

Course Subjects	Course Numbers and Semesters Offered	OAT?
Human Physiology	BIOL 42a (fall, summer) – <i>prereq: BIOL 14a &amp; BIOL 15b</i>	No
Human Anatomy	BIOL 43b (spring) – <i>prereq: BIOL 15b &amp; 16a</i>	No

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>

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