



Pre-Professional Advising Center

Health Careers Advising



Brown University Courses that Meet Most Pre-Health/Pre-Med Requirements

www.brown.edu/go/healthcareers

CHEMISTRY- GENERAL, ORGANIC, BIOCHEMISTRY: 4-5 semesters with lab

The great majority of medical, dental and veterinary schools require 4 semesters of chemistry with lab to include general, organic and biochemistry. Some schools require 5 semesters.

If you place into CHEM 0330:

CHEM 0330, CHEM 0350, CHEM 0360, and BIOL 0280 (or CHEM 0400 if offered and a good fit for your concentration)

- The typical four-course sequence at Brown is CHEM 0330 (1 semester of general chemistry with lab), followed by CHEM 0350 and CHEM 0360 (2 semesters of organic chemistry with lab), and BIOL 0280 (1 semester of biochemistry). CHEM 0400 may be taken in lieu of BIOL 0280. While BIOL 0280 does not have a lab, it is accepted by most health professions schools in lieu of a second semester of general chemistry with lab and is necessary for the MCAT.

If you place into CHEM 0100:

CHEM 0100, CHEM 0330, CHEM 0350, CHEM 0360, BIOL 0280 (or CHEM 0400)

- Students who place into CHEM 0100, proceed with the typical four-course sequence.
- Some medical, dental and veterinary schools require a five-course sequence in chemistry (2 semesters general chemistry with lab, 2 semesters organic chemistry with lab, 1 semester biochemistry). If these are your state or dream schools, and you have completed the typical four-course sequence, **CHEM 0500** would be the appropriate fifth course.

BIOLOGY: 2 semesters with lab

BIOL 0200 and one more course with lab (any course above BIOL 0200)

- All students without AP Biology start the Biology sequence with BIOL 0200. Some schools require specific courses in Biology. Even if you have AP Biology, you should still take two Biology courses with laboratory at Brown. Neuroscience courses with lab are accepted by most schools as biology with lab. However, to make sure you are in the best position to meet all schools' expectations and prepare well for the MCAT we recommend that you complete the two required courses in Biology.
- Completing more Biology or Neuroscience courses at Brown, which don't need to have a lab, is highly recommended to all, and is especially important for non-science concentrators.

PHYSICS: 2 semesters with lab

PHYS 0030 and PHYS 0040 - OR - PHYS 0050 and PHYS 0060 - OR- PHYS 0070 and PHYS 0160

- Students planning to concentrate in Engineering can satisfy the Physics requirement with ENGN 0030 and ENGN 0040. If you complete ENGN 0030 and change concentration, follow with PHYS 0040 or higher.

ENGLISH: 2 semesters

Any two courses in: College Composition (a.k.a. Expository Writing), or English Literature (including foreign literature in translation to English)

- Courses offered in or outside the English Department in these two categories meet the requirement. Courses outside these categories won't meet the requirement even if they involve extensive reading or writing. WRIT-designated courses offered by science departments will not satisfy the requirement. Health Careers Advising cannot endorse any particular course. This is your opportunity to embrace the Open Curriculum. Courses in these categories meet the requirement.

MATHEMATICS: 2 semesters

Any two college-level mathematics courses, at least one being Calculus. Statistics strongly recommended as a second course. MATH 0090 and MATH 0100 are the main Calculus courses. Statistics courses are offered by a number of departments (e.g., APMA, CLPS)

- Most schools prefer or require Statistics as a second semester of mathematics. Students with AP scores in Calculus should still take at least one semester of college mathematics- statistics recommended. Until recently a small number of schools required a full year of Calculus. This is unlikely to be an issue but check school sites a year or two before you apply.

SEE NEXT PAGE FOR IMPORTANT INFORMATION ABOUT AP PLACEMENT, COURSES AND THE MCAT

SOCIAL AND BEHAVIORAL SCIENCES: 2 courses necessary for the MCAT. Recommended to all students.

The new MCAT tests introductory knowledge in the behavioral and social sciences. We recommend you take an introductory course in both areas. Currently, most medical schools do not require course work in these fields but the MCAT tests general knowledge in them. We encourage students to embrace Brown's Open Curriculum and to explore courses in the humanities, the behavioral and social sciences in general. For further detail, consult our website.

IMPORTANT NOTE ON AP TRANSCRIPT NOTATION:

If you wish to have AP or other pre-college scores reflected on your transcript you must ensure completion and receipt of all required documentation prior to graduation. The official academic record of all graduating students is sealed upon Commencement. No transcript notations are made post-Commencement. For further detail, consult:

http://brown.edu/Administration/Dean_of_the_College/courses/ap.php If you have IB, A Level or other pre-college credit you may discuss them with Assoc. Dean M. Bhattacharyya and our office.

NOTES ON COURSE PLACEMENT:

SUBJECT	PLACEMENT
CHEM 0100	<ul style="list-style-type: none">•Entry Level Course. See CHEM 0330 below for more detail
CHEM 0330	<ul style="list-style-type: none">•AP score of 4-5, OR pass summer on-line placement test, OR take CHEM 0100•NOTE: AP scores are not accepted for transcript notation by the Chemistry department
BIOL 0200	<ul style="list-style-type: none">•AP score of 4-5 (or equivalent IB or A-Level) earns automatic exemption from BIOL 0200. If you have strong preparation in biology, you can earn exemption from BIOL 0200 by taking the placement exam offered during Orientation
MATHEMATICS	<ul style="list-style-type: none">•AB Calculus 4 or 5: earns credit for MATH 0090•BC Calculus 4 or 5: earns credit for both MATH 0090 and MATH 0100•BC Calculus 3 earns credit for MATH 0090•All others: take the math placement exam
PHYSICS	<ul style="list-style-type: none">•Without AP scores, all non-Physics concentrators start with PHYS 0030•With AP Physics- ONE of the following: 5 in Physics C (Mechanics); OR 4 in Physics C (Mechanics) PLUS 5 in Physics C (Electricity and Magnetism); OR 5 in Physics B (before May 2015); OR 5 in both Physics 1 and Physics 2 (May 2015 and later) . Students with these scores who then successfully complete either PHYS 0040, 0060, 0160, 0470, 0500, or an appropriate 1000-level physics course may receive credit for Physics 0030•NOTE: While these are the requirements for earning AP credit, they are not necessarily required for placement in a Physics course•Students considering skipping PHYS 0030, 0050, or 0070 should consult with their first-year advisor or Professor Jay Tang, the Physics Placement Coordinator

FOR FULL DETAILS OF INDIVIDUAL HEALTH PROFESSIONS' AND SCHOOLS' REQUIREMENTS, VISIT THE HEALTH CAREERS ADVISING WEBSITE. HEALTH PROFESSION SCHOOLS LIST THEIR REQUIREMENTS IN RESOURCES SUCH AS MSAR, VMSAR, CIB, ETC. AND WE PROVIDE DIRECTIONS TO THESE ON THE SITE.