# Pre-Med Program of Study

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This program offers matriculated students a comprehensive curriculum and advising support as they prepare for careers in medicine and health-related fields. Successful completion of the program is recorded on their official University transcripts when they have met all graduation requirements. Students in the program are required to take a minimum of ten science courses (excluding labs) chosen from the list below. These courses include the basic courses in math, chemistry, physics, and biology as well as selected advanced science courses and introductory coursework in psychology and/or sociology.

## How to Declare the Program of Study
- Students must have completed at least **three semesters** of coursework in math and science with at least a **3.2** average in the premedical courses (excluding labs) before declaring the Program of Study, and must maintain a 3.2 average in the Program of Study.
- To officially declare the Program of Study, fill out the "Program Add/Change" form (available on the Registrar's Website).

## Requirements
- Students must complete at least **10** (not including labs) of the following set of courses.
- No more than four courses may be transferred from other institutions; it is strongly recommended that no courses be taken at two-year institutions.
- Note regarding AP credit: currently, medical schools prefer that students do not use AP credit for the required courses. With the new requirements in psychology and sociology that may change; for now, we will accept AP credit in social science towards the Program of Study.

| Area | Courses | Course Titles |
|---|---|---|
| **Biology** | Biology 111 and 112 | General Biology I and II |
| | Biology 210 or 212 | Cell Biology (with or without lab) |
| | Biology 252 or 254 | Genetics (with or without lab) |
| **Chemistry** | Chemistry 115/117, 116/118 | Chemical Principles I and II, lecture and lab |
| | Chemistry 251/255, 252/256 | Organic Chemistry I and II, lecture and lab |
| **Biochemistry** | Biochem 383 | Biochemistry I lecture |
| **Physics** | Physics 107 and 108 (or 113 and 114), 181 and 182 | College Physics I and II (or Fundamentals of Physics I and II), plus two semesters of physics lab |
| **Math** | Math 140 or 145 | Calculus I, or Calculus I for Life Sciences |
| **Social Science** | Psych 100 or 101, or Sociology 101 | Introductory Psychology, or Introduction to Sociology |

**\*See important notes on the next page.**

## Other Important Considerations

- **MATH:** Requirements for Math courses vary depending on which medical school you're interested in. Statistics (**MATH 125**) is a very common requirement for admission to medical schools. If a school requires Calculus, see if they specify that the course should be Calculus I (**MATH 140**). Some medical schools may accept Survey of Calculus (**MATH 135**) instead. It is important to research which (and how many) math courses a medical school requires.

- **PHYSICS:** Requirements for Physics courses vary depending on which medical school you're interested in. There are two types of Physics courses at UMass Boston, College Algebra-based Physics I & II **(PHYSIC 107/171 & 108/172)** and Calculus-based Physics I & II **(PHYSIC 113/181 & 114/182)**. Most medical schools will accept College Algebra-based Physics I & II **(PHYSIC 107/171 & 108/172)**. However, some particularly competitive medical schools may recommend or require Calculus-based Physics I & II **(PHYSIC 113/181 & 114/182)**. It is important to research which physics course a medical school requires.

## Other Courses Required for Allied Health Studies

Freshman English (English 101 and English 102)

## Requirements for Highly Competitive Schools

Calculus (1 year)        -    Math 145 & 146 or Math 140 & 141
Calculus Based Physics    -    Physics 113/181 and Physics 114/182

## Recommended Additional Courses

Molecular Biology (Biology 372 or 370)
Neurobiology (Biology 318 or 316)
Microbiology (Biology 334)
Immunology (Biology 380 or 378)
Statistics (MATH 125)