

BIOLOGY PROGRAM - Pre-Medical Track Checklist (2008-09)

Note: Students completing the requirements listed on both the Biology Advising Checklist and the Pre-Medical Track Checklist will meet the prerequisites of most medical schools in the U.S. Students following this checklist will NOT get a Pre-Medical Option.

Pre-Medical Course Changes

The following courses are recommended for students interested in pre-medicine. **However, students must check the requirements for any school to which they apply for up-to-date information.** The courses can be taken in place of (for those with requirements in parentheses) or in addition to courses listed on the Biology Advising Checklist. See the back of this checklist for elective courses that may be of interest to pre-medical students.

- BI 109 Pre-Medical Orientation (1 cr) – Offered spring term
- CH 221, 222, 223 (not 121, 122, 123) (BI checklist - General Chemistry)
- PHL 444 Biomedical Ethics (4 cr) - (BI checklist - Science Technology and Society)
- Students should NOT take Anatomy & Physiology (Z 331-333 and 341-343) as they are not good preparation.** Students can take additional Biology Checklist physiology courses to count as upper division science electives.

OSU Pre-Medical Information

Student Club - Pre-Med Society: Interested students should join the Pre-Med Society <http://osu.orst.edu/groups/premed/>. Society happenings include field trips, speakers, an OHSU tour, and info on volunteering and community service.

Pre-Med Listserve: Join the pre-medical listserve to hear about opportunities for pre-med students. Go to <http://www.science.oregonstate.edu/node/12> and follow the directions to join.

Chemistry Minor: It is a good idea to take CH 324 Quantitative Analysis (4 cr). These credits will count toward the Biology requirement “5-6 upper-division courses” and complete the Chemistry Minor.

Foreign Language: A foreign language is highly recommended. Students who have taken a language previously should arrange to take a placement test at the Department of Foreign Languages and Literatures in Kidder 210, 737-2146.

Baccalaureate Core and Electives: It is important to take serious study of liberal arts courses beginning in the freshman year as preparation for the MCAT, which contains a Verbal Reasoning and Writing section in addition to sciences. Baccalaureate Core Courses which require writing are especially useful.

Admission Test: Medical school applicants must take the Medical College Admissions Test (MCAT <http://www.aamc.org/students/mcat/start.htm>). Sylvan Prometric Centers in Portland and Eugene offer the test.

Medical Experience: It is important for students to begin volunteering or working in health care early in their academic careers in order to gain medical experience in their field and to clarify your career choice and interests.

- See the Medical and Health Professions section of the Internship, Volunteer, Research and Job List at <http://biology.science.oregonstate.edu/research-internships-volunteering-and-jobs>
- Shadowing is a good way to begin getting experience and to decide if medicine is for you. In Corvallis students generally must be part of the Medical Preceptorship program to shadow, but students should also look for opportunities near their home. Preceptorships to work closely with a local physician are available to junior pre-medical students with a GPA above 3.3. Contact Ariella Wolf (737-4811, Kidder 128) or go to <http://www.science.oregonstate.edu/node/129> for details.
- OSU international medical internships information <http://ie3global.oregonstate.edu/index.html>
- OSU research opportunities <http://biology.science.oregonstate.edu/undergraduate-research>

References: It is important to begin establishing relationships with professors and professionals throughout your education. Applicants will generally need a minimum of three references. References who can speak about you beyond a grade you received and can address your character and professionalism will be particularly strong.

Application Seminar: Students should plan to attend an application seminar fall of the year they will apply. The times and dates of application seminars are announced on the pre-medical listserve.

Additional Pre-Medical Information: Talk to your advisor and look at <http://www.science.orst.edu/node/113> .

Additional Pre-Medical Resources

- Association of American Medical Colleges career information www.aamc.org
- Biology Careers Page – Health Profession Careers <http://biology.science.oregonstate.edu/career-resources>
- Explore Health Careers www.explorehealthcareers.org
- OHSU School of Medicine <http://www.ohsu.edu/som/>
- Oregon Pacific Area Health Ed. Centers Health Careers Website <http://www.oregonhealthcareers.org/>
- Student Doctor Network medical school information <http://www.studentdoctor.net/index.asp>

Elective Courses of Interest

- ANTH 483 Advanced Medical Anthropology
- ANTH 440 Evolutionary Medicine
- ANTH 474 Cross-cultural Health and Healing
- BB 332 Molecular Medicine
- Any 300+ level chemistry courses taken to complete the chemistry minor – CH 324 recommended
- FW/H 417 Medical and Public Health Entomology
- H 210 Introduction to Health Services and Organizations
- H 250 Introduction to Health Care Organization & Admin.
- H 312 Aids and Sexually Transmitted Diseases
- H 320 Introduction to Human Disease
- H 423 Health Aspects of Aging
- H 425 Foundations of Epidemiology
- HDFS 314 Adult Development and Aging
- MB 416 Immunology
- MB 417 Immunology Lab
- MB 430 Pathogenic Microbiology
- MB 434 Virology
- MB 435 Pathogenic Microbiology/Virology Lab
- PHL 444 Biomedical Ethics
- PSY 330 Brain and Behavior
- PSY 432 Physiological Psychology
- PSY 433 Psychopharmacology
- PSY 481 Abnormal Psychology
- SOC 350 Health, Illness, and Society
- TOX 411 Fundamentals of Toxicology
- TOX 429 Toxic Substances in Food
- Z 437 Vertebrate Endocrinology
- Additional physiology courses from the Biology checklist (not Z 331-333 or 341-343)