Medicine • Dentistry • Optometry • Veterinary Medicine Preparation

Pre-professional programs

Summary of Requirements for Medical, Dental, Optometry & Veterinary Medicine Pre-Health Professions Program

1. Students intending to enter health professions schools should plan their academic programs carefully to meet pre-professional, university and major requirements.

2. Pre-health professions students should continually examine the catalog of the institution they plan to attend in order to complete courses required by the professional school and to fulfill additional entrance expectations. Students should bear in mind that requirements change and they should maintain contact with any professional schools they want to attend.

3. A science major is not a prerequisite for medical school; therefore, a major should be selected in which the student has a high aptitude and interest and which provides career alternatives. A proper course selection is most important; consequently, we highly recommend early consultation with the chair of the department of your selected major, who will assign you to a pre-health professions advisor.

4. Though students may choose any major, most pre-health professions students at FSU select biology or chemistry as majors. The Pre-Health Professions Option outlined in the Biology section of this catalog should be selected by students majoring in Biology. Chemistry students planning medical school and other pre-health professional programs complete either the Biochemistry concentration or Traditional Track outlined for the Chemistry major. Students opting to minor in either department are advised to use sections 5 and 6 below as a guide to course selection.

5. Professional schools generally require a demonstrated proficiency in the basic sciences. The following courses are among the minimum requirements for students planning to prepare for medical, dental, optometry or veterinary school.

   **Biology**
   - BIOL 149 and 160 General Biology I and Intro to Zoology 8 cr.
   - BIOL 201 and 202 General Chemistry I and II 8 cr.
   - BIOL 311/312 and 321/322 Organic Chemistry I and II 8 cr.
   - CHEM 201 and 202 General Chemistry I and II 8 cr.
   - CHEM 311/312 and 321/322 Organic Chemistry I and II 8 cr.
   - PHYS 215, 216 or 261, 262 General Physics I, II or Principles of Physics I, II 8 cr.
   - MATH — 2 courses *See options in #6 6 cr.

6. Some professional schools require and many recommend additional courses as minimal requirements. The following list should be used as a guide for course selection by students in any major.

   **Biology**
   - BIOL 302 Animal Physiology 4 cr.
   - BIOL 304 Microbiology 4 cr.
   - BIOL 310 Cell Biology 4 cr.
   - BIOL 321 Anatomy & Physiology I 4 cr.
   - BIOL 322 Anatomy & Physiology II 4 cr.
   - BIOL 350 Genetics 3 cr.
   - BIOL 401 Genetics Laboratory 1 cr.
   - BIOL 404 Histology 4 cr.
   - BIOL 427 Comparative Anatomy 4 cr.
   - BIOL 435 Molecular Biology 4 cr.

   **Chemistry**
   - CHEM 320 Quantitative Analytical Chemistry 4 cr.
   - CHEM 455, 456, 457 Biochemistry Lec. I & II and Lab 6 cr.
   - ENGL 338 Technical Writing 3 cr.
   - MATH 109 or 380 Probability & Statistics 3 cr.
   - MATH 236, 237, 238 Calculus I, II, III 12 cr.
   - PHIL 313 Biomedical Ethics 3 cr.
   - SOCI 367 Sociology of Medicine 3 cr.

7. Biochemistry I (CHEM 455) is an entrance requirement at the Virginia-Maryland Regional College of Veterinary Medicine.

8. Almost all professional schools require applicants to take certain standardized examinations.

   **Medical Schools** — Medical College Admission Test (MCAT). For students taking the MCAT, introductory courses in psychology and sociology are recommended.
   **Dental Schools** — Dental Admissions Test (DAT)
   **Optometry Schools** — Optometry Admission Test (OAT)
   **Veterinary Schools** — Graduate Record Exam (GRE)

You may obtain information about the tests from Career Services.