Pre-Health Professions Minor for Engineers
(for students interested in Medical School, Dental School, or other Health Professions)

Introduction
While prerequisite courses may vary somewhat, most medical and dental schools typically require: 1 year (8 semesters hours) of biology with lab, 1 year of general chemistry with lab, 1 year of organic chemistry with lab, one year of physics with lab, 1 year of English (including at least 1 semester of composition), and several social science/humanities courses. Some programs may also require or recommend calculus, biochemistry and behavioral science (psychology, sociology, cultural anthropology). While all required courses must have just a minimum grade of a “C” to earn this minor, students interested in medical school or dental school generally need much higher grades to be competitive for admission.

Additional information on individual medical school requirements can be found in the Medical School Admission Requirements (MSAR) book published by the Association of American medical Colleges (AAMC) which is available through the AAMC or through online bookstores. Likewise, information on individual dental school requirements can be found in the American Dental Education Association (ADEA) Official Guide to Dental Schools which is available through online bookstores.

It is important to note that earning the pre-health professions minor does not provide any special qualifications beyond that of other typical Medical School or Dental School applicants.

Prerequisite Requirements
Prerequisite requirements to be eligible for this minor include: MA 16500, 16600, 26100, 26200 (or 26500 and 26600) or equivalents; Phys 17200, 24100 (or 25100, 26100 or 27200) or equivalents (totals 25 hours). The lab component of PHYS 24100 is not typically required for most engineering students because medical/dental schools understand that engineering programs are generally lab and physics intensive.

Minor Requirements
A Pre-Health Professions Minor for is available to students in the College of Engineering which meets the basic requirements of most medical/dental schools. A Pre-Health Professions Minor will be granted on the completion of the following 22 cr hrs.

The core requirements (22 crs) are:

- CHM 11600 (or 13600) General Chemistry (L) – Science Selective 4crs
- BIOL 13100/13200 Fundamentals of Biology I 5crs
- BIOL 23100/23200 Fundamentals of Biology II** 5crs
- BIOL 39600 Premeedical Planning Seminar 0crs
- CHM 25500 (or 26100) Organic Chemistry 3crs
- CHM 25501 (or 26300) Organic Chemistry Laboratory 1crs
- CHM 25600 (or 26200) Organic Chemistry 3crs
- CHM 25601 (or 26400) Organic Chemistry Laboratory 1crs

* Provided the 22 hrs are successfully completed with a grade of “C” or better in all of the courses, then a Health Care Minor will be awarded. Of course, the higher the grades, the better the chance for admission into Medical/Dental School. A grade of “C- or lower” in any of the minor courses is not adequate to fulfill the minor.

** Other acceptable BIOL options include: BIOL 23000 (3crs)/BME 20500 (1cr)
Generally, all of the above prescribed minor courses must be taken at the Purdue West Lafayette campus to be eligible for the Pre-Health Professions Minor. The only exceptions to this rule are as follows:

1. An equivalent transfer course from another university can be used if it is a core course and comes from an ABET-accredited program, OR

2. An equivalent Purdue substitution may be used if it is deemed equivalent to the prescribed minor course and acceptable by the home School of the student.

No more than two substitutions (8 crs max) from either of the above two categories is acceptable for the minor.

**Other Suggested Courses (Not required for the Minor)**

While not required for the Pre-Health Professions Minor, interested students are encouraged to consider other experiences and courses that may be of benefit in preparation for medical/dental school. First, it is strongly recommended that all students seek practical experience in a medical setting (e.g., hospital volunteer, EMT training, Red Cross training, etc.). Interested students are likewise encouraged to consider courses of interest in the areas of literature or composition, humanities and social sciences (especially in behavioral sciences – psychology, sociology and cultural anthropology), human anatomy and physiology, and biochemistry. Other suggested electives areas might also include art (i.e., 3-D hand drawing or jewelry making – for dexterity), introduction to business, management, accounting, statistics, interpersonal communications, Spanish, cell biology, genetics, histology, microbiology and molecular biology. Interested students should contact the Health Professions Advisor (see contact information below) to discuss which (if any) specific elective courses they might need for the Medical/Dental Schools they are considering.

**Advising**

Students interested in pursuing a career in a Health Care Profession are strongly recommend to schedule a meeting with Amy Terstriep (Health Professions Advisor, Biology Department, prehealth@purdue.edu, 44747) early in their academic program to discuss specific Schools of interest (and especially school-specific course requirements), the applications process, the interview process, and the admission exam (MCATs, DATs, etc.)