

## Premedical Concentration

A Premedical concentration in Mechanical Engineering can be accomplished by completing thirteen additional credit hours beyond the normal curriculum. Most medical schools require a minimum of one academic year of biology (BIOL 150 and BIOL 152), one academic year of chemistry (CHEM 184 and CHEM 188), one academic year of organic chemistry (CHEM 624, CHEM 625, CHEM 626, CHEM 627), one academic year of English (ENGL 101 and ENGL 102), and one academic year of physics (PHSX 211 and PHSX 212). A few medical schools require biochemistry, genetics, additional biology courses, and one or two calculus courses.

Several of these required classes are counted as Mechanical Engineering required credits as shown below:

BIOL 150—four credit hours List 2 elective  
CHEM 184—counts as the Chemistry requirement  
CHEM 188—five credit hours List 2 elective  
ENGL 101 and ENGL 102—required in the ME curriculum  
PHSX 211 and PHSX 212—required in the ME curriculum  
MATH 121 and MATH 122—required in the ME curriculum

The additional classes that are required for completion of minimal medical school requirements that cannot be counted in the ME curriculum include: BIOL 152 (3 credit hours), CHEM 624 (3 credit hours), CHEM 625 (2 credit hours) and CHEM 626 (3 credit hours) and CHEM 627 (2 credit hours). These additional requirements can be fulfilled in four years if the student takes courses during summers. Other classes that may be desirable are BIOL 646 and 647 (Mammalian Physiology lecture and lab, 5 credit hours), BIOL 416 (Cell Structure and Function, 3 credit hours), and BIOL 404 (Intro to Genetics, 3 credit hours). If these extra classes are taken, at least one additional semester of coursework with summers or one additional year without summers would be required.