Benedictine University
Office of Pre-Professional Health Programs
Required Courses for Medical School Admission
Fall 2011 (entering 2012)

1 year Biology + lab

Biology (197 & 198) & Lab (199)

1 year Physics + lab

Physics I & Lab (PHYS 113/114 or PHYS 211/205)
Physics II & Lab (PHYS 118/119 or PHYS 212/206)

2 years Chemistry + lab

Gen. Chemistry I & Lab (CHEM 113/114)
Gen. Chemistry II & Lab (CHEM 123/124)
Organic Chemistry I & Lab (CHEM 242/243)
Organic Chemistry II & Lab (CHEM 247/248)

Mathematics

Math through trigonometry (MATH 111)
More selective schools require 1 or 2 semesters of calculus
Some schools also require statistics (biostats is preferred)

24 credit hours Social Sciences, Behavioral Sciences, Humanities

Recommended: Psychology, Medical Sociology**,** Anthropology
Suggestions: Childhood & Adolescence, Abnormal, Aging, Death & Dying

Suggestions(as electives): Nutrition, Medical Terminology, Medical Humanities, Art Appreciation, Art, Language (Spanish), Biomedical Ethics.

Our students who do best on the MCAT also take:

Genetics / (BIOL 250)
Cell Biology (BIOL 340)
Physiology (BIOL 258)

Biochemistry (BCHM 261) or
Biochemistry 361 & Biochemistry 365

NOTE: Medical School Admissions is moving to competency based admissions criteria with the 2013 entering class. It will be easiest to meet competencies by being successful in an academic class.

Competency Based Requirements for Medical School Admission
Entering Class of 2013 on forward

(Note: different schools are phasing in slightly different requirements, check with each school for exact requirements)

It will be easiest to meet competencies by being successful in an academic class.
Competencies will be tested for on MCAT. Take most courses prior to taking MCAT.

Biology: Cells, genetics, and human biology (at least 1 year, 2 semesters of lab)

Biology (BIOL 197 & 198) & Lab (BIOL 199 or BIOL 299)
Genetics (BIOL 250)
Cell Biology (BIOL 340)
Human Physiology (BIOL 258)

Chemistry: General, organic, and biochemistry (at least 2 years with labs)

Gen. Chemistry I & Lab (CHEM 113/114)
Gen. Chemistry II & Lab (CHEM 123/124)
Organic Chemistry I & Lab (CHEM 242/243)
Organic Chemistry II & Lab (CHEM 247/248)
Biochemistry (BCHM 261 or BCHM 361/365 sequence)
(Note: CHEM103/104, Introduction to Organic Chemistry and Biochemistry is not designed to give students the competencies they will need for medical school admissions)

Physics: mechanics, kinetics, thermodynamics, the properties of matter (quantum theory) and wave theory, electricity and magnetism, and optics

Physics I & Lab (PHYS 113/114 or PHYS 211/205)
Physics II & Lab (PHYS 118/119 or PHYS 212/206)

Mathematics

Math through trigonometry (MATH 111)
More selective schools require 1 or 2 semesters of calculus
Some schools also require statistics (Biostats is preferred)

Analytical and writing skills

WRIT 101, 102

Social Sciences, Behavioral Sciences, Humanities

This will vary with each school. Students need to research specific programs as to the exact competencies or requirements.

Recommended: Psychology, Medical Sociology, Anthropology
Suggestions: Childhood & Adolescence, Abnormal, Aging, Death & Dying, Biomedical ethics, Medical Humanities
Other elective suggestions: Nutrition, Medical Terminology

Other Practical Information for Advising Pre-Med Students

MCAT:

Computer based competency testing
Testing cycle is January to September, take it early enough for admissions cycle
Testing is suggested for spring or summer junior year
Students should **BE PREPARED** when they take the test
Students should plan to take this test only once.
Most medical schools average **ALL** MCAT test scores, so do not take this test to see how you do.

Health Science Recommendations Committee (info on HSRC web site)

Meets Fall and Spring semesters
Committee interview process open to all pre-professional students, regardless of major
Provides interviewing experience for students
Students who evade committee are often asked why they did not go through it when interviewing at professional schools
Plan to go through committee junior year unless taking a year off
Contact Dr. M Tischler in Biological Sciences if there are questions

Medical School Admissions is Rolling

The early bird gets the worm
Apply to medical school between June 1 and August 15

There are two different types of physicians and applications

AMCAS = **MD** AACOMAS = **DO**
allopathic osteopathic

Experience is important

Qualifying students can apply to take the Medical Practicum (info on HSRC web site)
CPR certification
Training and experience as a Certified Nursing Assistant (CNA) **OR**
Training and experience as an Emergency Medical Technician – Basic (EMT-B)
Shadowing and/or volunteer work
Contact Ms. A Sima if there are questions

Knowing about medicine and medical care is important

Biomedical Ethics
Medical Sociology
Nutrition
Other courses

Involvement and engagement is important

Pre-med AMSA
TRI-BETA
ASBMB/ACS
Volunteer experiences