

# Preparing for Medical School: Coursework

## MAPPING YOUR COURSEWORK AND PREPARATION

We recommend that you first go to your college's advisement center for an outline of classes required for your major. The Preprofessional Advisement Center will then be able to assist you in planning out specific prerequisite courses and other premedical preparation.

Below is a list of BYU coursework that, generally, fulfills prerequisites for most medical schools. This is not a comprehensive list, we strongly encourage you to utilize our office services to help you, and consult the AAMC, AACOM, and TMDSAS guides to medical schools and with individual schools' websites for specific requirements.

## COURSES REQUIRED FOR MEDICAL SCHOOLS & RECOMMENDED FOR MCAT PREPARATION

### CHEMISTRY

CHEM 105: General College Chemistry I	4.0 hrs
CHEM 106 & 107: General College Chemistry II (CHEM 111, 112, & 113, if required by your major)	3.0, 1.0 hrs
CHEM 351: Organic Chemistry I	3.0 hrs
CHEM 352 & 353: Organic Chemistry II & Lab (CHEM 354, if required by your major)	3.0, 2.0 hrs
CHEM 481: Biochemistry	3.0 hrs

### BIOLOGY

CELL 120: Science of Biology	3.0 hrs
<b>or</b>	
MMBIO 121 & 122: General Biology (only take MMBio 122 if need lab credit) (BIO 130, if required by your major)	3.0, 1.0 hrs
MMBIO 221 & 222: General Microbiology & Lab (Talk to major advisor to determine if MMBIO 221 and/or MMBIO 240 is best)	3.0, 1.0 hrs
<b>and/or</b>	
MMBIO 240 & 241: Molecular Biology & Lab	3.0, 1.0 hrs
CELL 305: Physiology (pre-req is CELL 220) (CELL 362,363, if required by your major or need a physiology lab credit)	4.0 hrs
PWS 340: Genetics (Pre-req is MMBio 240 or Chem 481)	3.0 hrs

### PHYSICS

PHSCS 105 & 107: General Physics I & Lab	3.0, 1.0 hrs
PHSCS 106 & 108: General Physics II & Lab (PHSCS 121, 123, if required by your major)	3.0, 1.0 hrs

\*For students taking PHSCS 121 and 123, we recommend PHSCS 220 help you prepare for the MCAT, but the material can also be studied on your own.

### SOCIAL AND BEHAVIORAL SCIENCES

PSYCH 111: General Psychology	3.0 hrs
SOC 111: Introductory Sociology	3.0 hrs

---

## COURSES REQUIRED BEFORE MEDICAL SCHOOL MATRICULATION

**English** (at least two classes, usually fulfilled by your major and GE requirements, consult the schools you are planning on applying to and/or the official medical school guides)

**Math** (requirements vary, consult the schools you are planning on applying to and/or the official medical school guides)

**Humanities/Social Sciences** (requirements vary, consult the schools you are planning on applying to and/or official medical school guides)

## HELPFUL PREMEDICAL CLASSES

STDEV 170: Intro to Health Professions	1.0 hr
Seminar style overview of health careers with a variety of guest lectures (medical doctor, dentist, physician assistant, pharmacist, physical therapist, etc.)	
STDEV 214R: Special Topics	1.0 hr
These are various sections offered each semester. Course content will be determined by the specific physician directing the section. Students will also have the opportunity and expectation of shadowing the physician instructor.	
STDEV 272: Preview of Medicine	1.0 hr
Seminar style overview of the medical profession with lectures from prehealth advisors, medical professionals, and some medical school admissions officers.	
STDEV 274: Preview to Physician Assistant	1.0 hr
Preview of the physician assistant profession and PA school application process. Guest presentations by practicing PAs, PA school representatives, and pre-health advisors.(Consideration for other career options)	
STDEV 399R: Health Professions Internship	1.0-3.0 hr
Students are invited to set up shadowing experiences with different physicians or patient exposure experiences and receive course credit for the experience.	
STDEV 470: Health Professions Application	2.0 hr
Emphasis on the premedical and pre dental application, class provides an overview of the application process.	
NURS 505: IPE for Health Professions	1.0 hr
Focus on the rules and responsibilities for collaborative practice. Communication, teamwork, leadership, values and ethics will all be addressed.	
SOC 329: Medical Sociology	3.0 hr
Social and structural factors which influence health, healing, and illness.	
BIO 370: Bioethics	2.0 hr
Discussion of major ethical theories and their application to current issues in medicine and biology.	