

# PREHEALTH PROFESSIONS

Missouri S&T has several programs of study, which prepare students for success in the professional schools of human medicine, veterinary medicine, dentistry, and related areas of health-care. Degree programs in biological sciences and chemistry offer all the coursework necessary for admission to health profession schools. Students majoring in chemical and biochemical engineering should choose science electives from the courses below. Advising of students desiring a pre-health profession background is conducted by Missouri S&T Pre-Health Professions Advisory Committee in conjunction with the student's department advisors. Interested students may inquire with Dr. Katie Shannon, biological sciences department, who chairs the Pre-Health Professions Advisory Committee. Students interested in health professions are strongly encouraged to obtain shadowing and volunteer experience in their desired profession as early as possible.

## Premedicine Minor

It is recommended that students seeking the Pre-Medicine minor declare their intentions as soon as possible. Students completing the Pre-Medicine minor curriculum in addition to their BA/BS curriculum will have completed all requirements for admission to most Medical, Dental, Veterinary or other health profession programs. However, it is important to consult with a member of the Pre-Health Professions Advisory Committee to ensure you are completing the necessary coursework for your desired profession. The Pre-Medicine minor is not intended for a student majoring in Chemistry, Biological Sciences or Chemical and Biochemical Engineering which already offer a Pre-Medicine approved curriculum. Required courses for the Pre-Medicine minor are:

BIO SCI 1213 & BIO SCI 1219 or BIO SCI 1113 & BIO SCI 1219	Principles of Biology and General Biology Lab General Biology and General Biology Lab	4
BIO SCI 2213 & BIO SCI 2219	Cell Biology and Cell Biology Laboratory	4
CHEM 1310 & CHEM 1319 & CHEM 1320 & CHEM 1100	General Chemistry I and General Chemistry Laboratory and General Chemistry II and Introduction To Laboratory Safety & Hazardous Materials	9
CHEM 2210 & CHEM 2219 & CHEM 2220 & CHEM 2229	Organic Chemistry I and Organic Chemistry I Lab and Organic Chemistry II and Organic Chemistry II Lab	8
PHYSICS 1145 or PHYSICS 1135	College Physics I Engineering Physics I	4
PHYSICS 2145 or PHYSICS 2135	College Physics II Engineering Physics II	4
MATH 1211 or MATH 1212 or MATH 1214	Calculus I-B Survey of Calculus Calculus I	4
One of the following courses (taking all four courses is strongly encouraged):		
BIO SCI 2223	General Genetics	
BIO SCI 3333	Human Anatomy and Physiology I	
BIO SCI 3343	Human Anatomy and Physiology II	
CHEM 4610	General Biochemistry	
PREMED 3010	Communication Workshop for the Pre-Health Student (Suggested but not required)	1

**Katie B Shannon**, Teaching Professor  
PHD Harvard Medical School

### **PREMED 1211 Introduction To Health Careers** (LEC 1.0)

This course is for Pre-Medicine students or other interested in careers in the health care industry. Students will be introduced to different career options through invited speakers and independent research. Prerequisite: Admission Requirements.

### **PREMED 3010 Communication Workshop for the Pre-Health Student** (RSD 1.0)

This course is for Pre-Medicine students or others interested in careers in the health care industry or graduate studies. Students in this course will learn and develop writing and speaking skills necessary for success in health and science careers. Prerequisite: Junior Standing.