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, chemistry, and chemical and biochemical engineering offer all the coursework necessary for admission to health profession schools. 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 (5)**
  Principles of Biology and General Biology Lab
- or **BIO SCI 1113 & BIO SCI 1219 (5)**
  General Biology and General Biology Lab
- **BIO SCI 2213 & BIO SCI 2219 (4)**
  Cell Biology and Cell Biology Laboratory
- **CHEM 1310 & CHEM 1319 (9)**
  General Chemistry I and General Chemistry Laboratory
- & **CHEM 1320 & CHEM 1100 (9)**
  General Chemistry II and Introduction To Laboratory Safety & Hazardous Materials
- **CHEM 2210 & CHEM 2219 & CHEM 2220 & CHEM 2229 (10)**
  Organic Chemistry I and Organic Chemistry I Lab
- & **CHEM 2210 & CHEM 2220 & CHEM 2229 (10)**
  Organic Chemistry II and Organic Chemistry II Lab
- **PHYSICS 1145 & PHYSICS 1119 (4-5)**
  College Physics I and General Physics Laboratory
- or **PHYSICS 1111 & PHYSICS 1119 (4-5)**
  General Physics I and General Physics Laboratory
- **PHYSICS 2145 & PHYSICS 2119 (4-5)**
  College Physics II and General Physics Laboratory
- or **PHYSICS 2111 & PHYSICS 2119 (4-5)**
  General Physics II and General Physics Laboratory

Mathematics two semesters to include:

- **MATH 1208**
  Calculus With Analytic Geometry I
- or **MATH 1214**
  Calculus For Engineers I

One of the following courses (taking all three courses is highly recommended):

- **BIO SCI 2223**
  General Genetics
- **BIO SCI 242**
  General Biochemistry

**Katie B Shannon**, Associate 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.