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. Dave Westenberg, 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** Principles of Biology & **BIO SCI 1219** and General Biology Lab 5
  or **BIO SCI 1113** General Biology & **BIO SCI 1219** and General Biology Lab
- **BIO SCI 2213** Cell Biology & **BIO SCI 2219** and Cell Biology Laboratory 4
- **CHEM 1310** General Chemistry I 9
  & **CHEM 1319** and General Chemistry Laboratory
  & **CHEM 1320** and General Chemistry II
  & **CHEM 1100** and Introduction To Laboratory Safety & Hazardous Materials
- **CHEM 2210** Organic Chemistry I & **CHEM 2219** and Organic Chemistry I Lab 10
  & **CHEM 2220** and Organic Chemistry II
  & **CHEM 2229** and Organic Chemistry II Lab
- **PHYSICS 1145** College Physics I & **PHYSICS 1119** and General Physics Laboratory 4-5
  or **PHYSICS 1111** General Physics I
  & **PHYSICS 1119** and General Physics Laboratory
- **PHYSICS 2145** College Physics II & **PHYSICS 2119** and General Physics Laboratory 4-5
  or **PHYSICS 2111** General Physics II
  & **PHYSICS 2119** 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

**David J Westenberg**, Associate Professor

PHD University of California-Los Angeles

**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.