

## Basic requirements of United States Dental, Medical, Optometry, and Podiatry Schools

<b>REQUIRED COURSES</b>	Hrs	Course Name	Prerequisites
Biol 200a	4	Cell and Molecular Biol, Genetics & Evolution	Chem 200, 201 or concurrent
Biol 200b	4	Organismal and Ecological Biology	Chem 200, 201 or concurrent
Chem 200, 201	3+1	General Chemistry I & laboratory	high school algebra and chem
Chem 210, 211	3+1	Gen & Inorganic Chem & laboratory	Chem 200, 201 with C or better
Chem 340, 341	3+2	Organic Chemistry I & laboratory	Chem 210, 211 with C or better
Chem 342, 343	3+2	Organic Chemistry II & laboratory	Chem 340, 341 with C or better
Engl 101, 102	3+3	English Composition I & II	
Math 108, 109	3+3	Col Algebra, Trig & Anal Geom	high school algebra I and II; 108
One of: P1b 360, Epsy 402,	3	Statistics	college level mathematics
Math 282 or 283	3	Statistics	Math 108 or 140 respectively
Phys 203a, 253a	3+1	College Physics I & laboratory	Math 108 & 109 or 111
Phys 203b, 253b	3+1	College Physics II & laboratory	Phys 203a, 253a
<b><u>STRONGLY RECOMMENDED*</u></b>			
* Chem 350, 351	3+2	Introduction to Biological Chem & laboratory	Chem 340, 341 with C or better
* Micr 301	4	Principles of Microbiology	college biology & 1 year chem
* Micr 302 and/or Biol 305	3+3	Molecular Biology or Genetics (both for Pre-Med)	Biol 200a & 1 year chem
* Pnsl 310	5	Principles of Physiology	college level biol & chem
* Phsl 301	4	Human Anatomy	college level biol
Phil 105	3	Elementary Logic	
Sci 201	1	Career Prep Seminar for Health Professions	Math 111; Biol 200; Chem 200
<b><u>RECOMMENDED</u></b>			
Biol 306	3	Cell Biology	Biol 200a,b and Chem 200, 201
Engl 290 or 391	3	Composition or Precision in Reading & Writing	Engl 101, 102
Math 150	4	Calculus	Math 108 & 109 or 111 with C
Psyc 102	3	Introduction to Psychology	
Psyc 302	3	Introduction to Neuroscience	Psyc 102 & college level biol
Zool 409	4	Vertebrate Histology	10-12 semester hours biology
Biol 309 or Zool 300	3,4	Developmental Biol or Vert Embryology	Biol 200 & Chem 200; Zool 220

**Pre-med students-** Four chemistry laboratories are required for medical school. Either the Organic II lab OR the Biochem lab may be taken; or both. Biostatics (P1b 360) is not generally required, but *highly recommended* in recent feedback from the Association of American Medical Colleges and our medical school.

**U of I Medical School** requires 2 psychology courses and 1 additional behavioral science in sociology or anthropology.

**Pre-dental** students – SIU SDM requires two semesters of organic with lab, and two semesters of biochemistry (without lab). Students will need Chem 350 (offered spring) & 352 (offered fall) in addition to the two semester organic sequence with lab. (No Physics on the DAT.)

**Pre-optometry** students - Micro 301 and calculus are required.

*Pre-Dentistry, Pre-Medicine, Pre-Optometry and Pre-Podiatry are not majors. The student must also choose a major in which to earn a baccalaureate degree. This major must be declared, if possible, freshman year. Transfer students must declare a major their first semester following transfer. Popular majors include **Physiology, Biological Sciences/Biomed Track, Microbiology, and Chemistry.***

The Health Professions Information Office is located in Neckers A 185, phone: 618-536-2147, fax: 618-453-7067. The Health Professions Advisor is Gail Robinson. Her email address is grobin@siu.edu. **See the HPIO web page, which includes links to schools and application services, at: [www.science.siu.edu/advisement/health-advise.html](http://www.science.siu.edu/advisement/health-advise.html)**

The Science Advisement Office is also located in Neckers A 185, phone: 618-536-5537, fax: 618-453-7067, email us at [advise@cos.siu.edu](mailto:advise@cos.siu.edu) or see our web site at <http://www.science.siu.edu/advisement/index.html>! The College of Science Academic Advisors are Dana McKenzie, Jean McPherson, and Becky Reed.