

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

<u>REQUIRED COURSES</u>	<u>Hrs</u>	<u>Course Name</u>	<u>Prerequisites</u>
Biol 200a	3	Cell and Molecular Biol, Genetics & Evolution	Chem 200, 201 or concurrent
Biol 200b	3	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 ¹	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
<u>STRONGLY RECOMMENDED</u>			
* Chem 350, 351	3+1	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 college chem
* Phsl 310	5	Principles of Physiology	college level biol & chem
* Phsl 301 or Zool 418	4	Human Anat or Comparative Vert Anat	college level biol or Zool 220b
Phil 105	3	Elementary Logic	
Sci 201	1	Career Prep Seminar for Health Professions	Math 111; Biol 200a,b; Chem 200, 201
<u>RECOMMENDED</u>			
Biol 306	3	Cell Biology	Biol 200a,b and Chem 200, 201
Biol 308	3	Organismic Functional Biology	Biol 200a,b and Chem 200, 201
CS 105 or 200b or 201	3	Intro to Computing or Problem Solving With Computers	
Engl 290 or 391	3	Composition or Precision in Reading & Writing	Engl 101, 102
Math 141 or 150	4	Calculus	Math 108 & 109 or 111 with C
Psyc 102	3	Introduction to Psychology	
Psyc 302	3	Psychobiology	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 200a,b & Chem 200; Zool 220b

¹Most medical, dental, and optometry schools do not require Chem 342, 343. Chem 350, 351 may be taken instead. Four chemistry laboratories are required for medical school. Organic II lab or Biochem lab may not be necessary for dental and optometry schools. Check the requirements for the schools to which you will apply, and consider the amount of organic chemistry on your admission test.

Dental students - No calculus or statistics are required. No Physics on the DAT.

Optometry students - Micr 301, calculus, and an additional psychology course are required.

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

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 by the end of the sophomore year. Transfer students must declare a major by the beginning of their second semester following transfer.

**See the HPIO web page, which includes links to schools and application services, at:
www.science.siu.edu/advisement/health-advise.html**

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