

Pre-Health Recommended Courses

**The following information was compiled from the Iowa State University Pre-Health Website. Their contact information is available to the right for additional questions!*

Pre-Health Academic Advisers

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Most Medical Schools Require:

- English (ENGL 150, 250)
- Biology (BIOL 211, 211L and 212, 212L)
- General chemistry (CHEM 177, 177L and 178, 178L OR CHEM 201/201L)
- Organic chemistry (CHEM 331, 331L and 332, 332L)
- Mathematics (1 or 2 semesters of calculus, depending on medical school)
- General physics with laboratory (PHYS 111, 112 or PHYS 221, 222)
- Advanced biology (one course; examples BIOL 313, 314, 335, 351, 423)
- Biochemistry (required by a few medical schools outside Iowa, can be taken as BBMB 404 and 405, or 420)
- Sociology/Psychology coursework is recommended for the new MCAT

Most Common Pharmacy School Pre-Requisites Include:

- English and Speech (ENGL 150, 250, SP CM 212)
- Economics (Econ 101 and/or 102)
- Philosophy (230)
- Mathematics (one semester of calculus)
- Statistics (STAT 101 or 104)
- Computer Science (COM S 103)
- Biology (BIOL 211, 211L and 212, 212L)
- Anatomy and Physiology (BIOL 255/L and 256/L)
- Inorganic Chemistry (CHEM 177, 177L and 178, 178L)
- Organic Chemistry (CHEM 331, 331L and 332, 332L)
- Physics (PHYS 111, 112 or 221, 222)
- Microbiology (302, 302L)

Courses Required for Admission to Most Dental Schools:

- English (ENGL 150, 250)
- General chemistry with laboratory (CHEM 177, 177L and 178, 178L)
- Organic chemistry with laboratory (CHEM 331, 331L and 332, 332L)
- Physics with laboratory (PHYS 111, 112 or PHYS 221, 222)
- Biology with laboratory (BIOL 211, 211L and 212, 212L)
- Anatomy, Physiology (BIOL 255, 256)

Veterinary School Required Undergrad Coursework

Course and Title	Semester Hours Required	ISU Course Equivalent
English Composition	6 semester hours	English 150, 250, 302, 309, 312, or 314
Oral Communication	3 semester hours	Speech Communications 212, 223, or 312, OR Ag Ed 311 OR Communications Studies 102 or 214 OR English 312
General Chemistry* 2 semesters lecture for biological science majors with one semester lab.	7 semester hours	Chemistry 177, 177L, and 178 OR Chemistry 201 and 201L
Organic Chemistry* 2 semesters lecture with one semester lab.	7 semester hours	Chemistry 331, 331L, and 332
Biochemistry* One semester, upper-level course (no lab required).	3 semester hours	BBMB 301, BBMB 316, BBMB 404, or BBMB 420
Physics* First semester of a two-semester series with lab.	4 semester hours	Physics 111 or Physics 221 or Physics 115/115L
General Biology* <u>One year series</u> with lab each term.	8 semester hours	Biology 211, 211L, 212 and 212L
Genetics* Must include both Mendelian and molecular genetics (no lab required course).	3 semester hours	Biology 313 or Genetics 320
Mammalian Anatomy and/or Physiology* (no lab required)	3 semester hours	BMS 329, BMS 547X, BMS 538, Biology 155, 255 (previously Zool 155, 255), Biology 335, 351, or Animal Science 214
Arts, Humanities and/or Social Sciences	8 semester hours	
Electives	8 semester hours	