

Pre-Vet REQUIRED UNDERGRADUATE COURSEWORK & Micro Program

Course and Title	Semester/Quarter Hours Required	ISU Course Equivalent
English Composition One year of composition or writing emphasis courses. May include business or technical writing. Bachelor's degree counts for one-half of this requirement.	6 sem/9 qtr cr	English 150, 250, 302, 309, 312, or 314
Oral Communication May include public speaking, interpersonal communication, group or organizational communication or speaking emphasis courses.	3 sem/4-5 qtr cr	Speech Comm 212, 223, or 312, OR Ag Ed 311 OR Comm Studies 102 or 214 OR English 312
General Chemistry* One year series (2 semesters or 3 quarters lecture) for biological science majors with one semester lab	7 sem/10-11 qtr cr	Chemistry 177, 177L, and 178 OR Chemistry 201 and 201L
Organic Chemistry* One year series (2 semesters or 3 quarters of lecture) with one semester lab	7 sem/10-11 qtr cr	Chemistry 331, 331L, and 332
Biochemistry* One semester (no lab required)	3 sem/405 qtr cr	BBMB 301 or BBMB 316 or Biol 314
Physics* First semester of a two-semester series with lab. Must include mechanics, fluids, heat and thermodynamics, vibrations, waves and sound.	4 sem/6 qtr cr	Physics 111
General Biology* Two semester series with lab each semester. A Bachelor's degree in Biology fulfills this requirement.	8 sem/12 qtr cr	Biology 211, 221L, 212 and 212L
Genetics* Must include both Mendelian and molecular genetics. (no lab required) Most animal breeding or livestock improvement courses will not fulfill this requirement.	3 sem/4-5 qtr cr	Biology 313 or Genetics 320
Mammalian Anatomy and/or Physiology* (no lab required)	3 sem/4-5 qtr cr	Biology 255, 256, Biology 335, 351, BMS 329, or Animal Science 214
Arts, Humanities and/or Social Sciences	8 sem/12 qtr cr	Social Sciences, Humanities & Ethics requirements
Electives	8 sem/12 qtr cr	

* Yellow highlight indicates courses that are part of the Micro BS program of study

*** Anatomy & Physiology is the only course not required for a BS in Microbiology

updated 1/26/17