

U of Iowa Pre-Med REQUIRED UNDERGRADUATE COURSEWORK & Microbiology Program

Course and Title	Semester Courses Required	ISU Course Equivalent Required for Micro Major
English Composition Two courses (to include composition and literature).	2 courses	English 250 and Eng 302, 309, 312, or 314
General Chemistry A complete introductory course in modern general chemical principles including labs.	1 year	Chemistry 177, 177L, and Chemistry 178, 178L
Organic Chemistry A complete introductory course in organic chemistry including labs (1 year), A biochemistry course may be substituted for one semester of organic chemistry.	1 year	Chemistry 331, 331L, and Chemistry 332, 332L
Physics A complete introductory course (1 year), including lab and instruction	1 Year	Physics 111, 111L and Physics 112, 112L
Biology 1 Year introductory course with labs covering the principles of biology and 1 advanced course. Recommended advanced biology courses include molecular & cell biology, human physiology, genetics or microbiology.	1 Year 1 course	Biology 211, 211L and Biology 212, 212L Biology 313, Bio 314, Micro 302, Micro 310, Biol 335 (Human physiology)
Biochemistry 1 course that includes a comprehensive review of molecular structures and biochemistry of carbohydrates, nucleic acids and proteins, central metabolic pathways, enzyme functions, and metabolism of carbon based molecules.	1 course	BBMB 301 or BBMB 316 or BBMB 404 & 405
Mathematics College algebra and trigonometry. Applicants who Completed college algebra and trigonometry in high School must take either an advanced college mathematics course or a statistics course.	2 courses	Math 143 & Math 160 or Math 165 & Math 166 or Math 165 & Stat 301
Social and Behavioral Sciences, Humanities: Four courses. Recommended courses include behavioral psychology, sociology, and other non-science writing intensive courses.	4 courses	Social Sciences, Humanities, Ethics, International perspectives, US diversity requirements