

## Drake University Pharmacy - REQUIRED UNDERGRADUATE COURSEWORK & ISU Microbiology Program

<b>Course &amp; Title</b>	<b>Credit Hours</b>	<b>ISU Course Equivalent for Micro Major</b>
<b>General (Inorganic) Chemistry</b> A complete year course sequence in general (inorganic) chemistry is required. Labs are required.	8 credit hours (including labs)	Chemistry 177, 177L and Chem 178, 178L
<b>Organic Chemistry</b> A complete year course sequence in organic chemistry is required. Labs are required.	8 credit hours (including labs)	Chemistry 331, 331L and 332 & 332L
<b>Biological Sciences</b> A complete year course sequence in the biological sciences is required. Must include topics in human anatomy. Additional courses may include ecology, evolution, anatomy/physiology, cell biology, and biological diversity/structure. Labs are required.	8 credit hours (including labs)	Biology 211, 211L and Biology 212 & 211L
<b>Microbiology</b> A one-semester course in microbiology is required. A course intended for health care majors is recommended. A lab is not required.	3 credit hours	Micro 302
<b>Statistics</b> A one-semester course in general statistics is required. Business, psychology or biological science statistics courses are accepted.	3 credit hours	Stat 101 or 104
<b>Calculus</b> A one-semester course in calculus is required. Business calculus, applied calculus or calculus courses designed for the social sciences will NOT be accepted.	3 credit hours	Math 165
<b>English Composition</b> A complete year course sequence in college-level English writing or composition is required. The sequence can be made up of a one-semester college-level composition course and a one-semester intensive writing course.	6 credit hours	English 250 and English 302, 309, 312 or 314
<b>Public Speaking</b> A one-semester course focused on public speaking is required. Common course titles include Fundamentals of Speaking or Public Speaking. Interpersonal speaking and communication courses will NOT be accepted.	3 credit hours	Speech Com 212

**Highlighted** courses are requirements of a Microbiology Degree at ISU.

**Specific program requirements:** As with all programs, students should contact the admissions counselor at the pharmacy school they plan to attend to determine specific program requirements.

*Updated 1/23/2023*