

**Indiana University**

Listed below are the equivalent required courses from the institution listed above needed to satisfy prerequisite requirements for admission to the Manchester University College of Pharmacy.

Area of study	Equivalent Required Course	Semester Hours
Biology*	BIOL-L 112 Foundations of Biology: Biological Mechanisms <i>-and-</i> BIOL-L 113 Biology Laboratory <i>-and-</i> BIOL-L 211 Molecular Biology (preferred)	9 - 10
	<i>various</i>	3 - 4
Microbiology	BIOL-M 250/315 Microbiology with Lab <i>-or-</i> BIOL-M 380/315 Microbiology of Infectious Disease with Lab	5
General Chemistry	CHEM-C 117/127 Principles of Chemistry and Biochemistry I with Lab	5
General Chemistry	CHEM-C 118 Principles of Chemistry and Biochemistry II <i>-or-</i> CHEM-N Intermediate Inorganic Chemistry	5
Organic Chemistry	CHEM-C 341/343 Organic Chemistry I with Lab	5
Organic Chemistry	CHEM-C 342/344 Organic Chemistry II with Lab	5
Communications	COLL-P Public Oral Communication	3
English	ENG-W 131 Reading, Writing, and Inquiry I	3
Calculus	MATH-M 221 Calculus I	4
Statistics	STAT-S 303 Applied Statistical Methods for the Life Sciences	3
Physics	PHYS-P 201 General Physics I <i>-or-</i> PHYS-P 221 Physics I	3 - 5
Economics	ECON-E 201 Introduction to Microeconomics <i>-or-</i> ECON-E 201 Introduction to Macro Economics	3
Humanities electives (2)	<i>Various options</i>	6-8
Social Science elective	<i>Various options</i>	3-4
Other elective courses	<i>Various options</i>	As needed to total at least 60 semester credit hours
<b>TOTAL SEMESTER HOURS</b>		<b>60</b>

**Notes:**

- Classes based on the 2019-20 course catalog
- If semester hours differ at your institution, you must make up the remaining semester hours via elective coursework.
- Manchester University suggests that at least one of the humanities/social science electives deals primarily with an international culture.

\* One of the two semesters of the full-year biology requirement, must be anatomy, physiology, or a combination of both (i.e. Human Anatomy & Physiology I). The other semester can be any biology course of your choosing.