

**Butler 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*	BI257 Human Anatomy and Physiology	5
	<i>various</i>	3-4
Microbiology	BI325 Principles of Pathogenic Microbiology	3
General Chemistry	CH105 General Chemistry 1	4
General Chemistry	CH106 General Chemistry 2	4
Organic Chemistry	CH351 Organic Chemistry 1	4
Organic Chemistry	CH352 Organic Chemistry 2	4
Communications	FYS101/102 First-Year Seminar -or- ORG253 Interpersonal Communication	3
English	FYS101/102 First-Year Seminar -or- EN101 Academic Writing Workshop	3
Calculus	MA106 Calculus and Analytic Geometry 1	4
Statistics	MA359 Probability and Statistics	3
Physics	PH107 Elementary Physics 1	4
Economics	EC231 Principles of Microeconomics -or- EC232 Principles of Macroeconomics	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.