

**Goshen College**

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 120 Cell Biology and Genetics <i>-and-</i> BIOL 130 Organismal Biology (strongly recommended)	8
	<i>various</i>	3-4
Microbiology	BIOL 300 Microbial Biology	4
General Chemistry	CHEM 111 General Chemistry	4
General Chemistry	CHEM 112 General Chemistry	4
Organic Chemistry	CHEM 303 Introduction to Organic Chemistry	4
Organic Chemistry	CHEM 304 Intermediate Organic Chemistry	4
Communications	COMM 202 Oral Communication	3
English	CORE 110 The Academic Voice: Speaking & Writing <i>-or-</i> COMM 204 Expository Writing	
Calculus	MATH 211 Calculus I	4
Statistics	MATH 323 Probability and Statistics <i>-or-</i> ECON 380 Marketing Research	3
Physics	PHYS 203 General Physics	4
Economics	ECON 203 Principles of Microeconomics <i>-or-</i> ECON 204 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.