

**Lake Superior State 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*	BIOL121 Human Anatomy and Physiology I	4
	<i>various</i>	3-4
Microbiology	BIOL204 General Microbiology	4
General Chemistry	CHEM115 General Chemistry I	5
General Chemistry	CHEM116 General Chemistry II	5
Organic Chemistry	CHEM225 Organic Chemistry I	4
Organic Chemistry	CHEM326 Organic Chemistry II	4
Communications	COMM101 Fundamentals of Speech Communication	3
English	ENGL110 First-Year Composition I	3
Calculus	MATH151 Calculus I	4
Statistics	MATH207 Principles of Statistical Methods	3
Physics	PHYS221 Principles of Physics I	4
Economics	ECON 201 Principles of Macroeconomics -or- ECON202 Principles of Microeconomics	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:**

- Course listings are based on the 2020-2021 undergraduate 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.