

**Washington State
 University (Vancouver)**

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

Area of study	Equivalent Required Course	Semester Hours
Biology	<i>Various options</i>	6-8
Microbiology	MBIOS 305	3
General Chemistry	CHEM 105	4
General Chemistry	CHEM 106	4
Organic Chemistry	CHEM 345	4
Organic Chemistry	CHEM 348	4
Communications	COM 102	3
English	English 101	3
Calculus	MATH 171	4
Statistics	STAT 212	4
Physics	PHYSICS 101	4
Economics	ECONS 101 or ECONS 102	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
TOTAL SEMESTER HOURS		60

Notes:

- Classes based on course catalog at Washington State University (Vancouver) [2017]
- 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.