

**PRE-PHARMACY PROGRAM**

Pre-pharmacy is not a major; it refers to a specific curriculum, or set of courses, required for admission to pharmacy school. Pre-pharmacy studies can be completed at UMD in three years however many students choose to complete a four-year degree to make themselves more competitive pharmacy school applicants (Note: The University of Minnesota pharmacy schools give admissions preference to students who complete a four-year baccalaureate degree before entering pharmacy school.) The Doctor of Pharmacy (Pharm.D.) degree is a four-year program after completion of the pre-pharmacy curriculum. The University of Minnesota Pharm.D. program is offered through the College of Pharmacy on the Twin Cities campus and on the Duluth campus.

FIRST YEAR*			
FALL SEMESTER		SPRING SEMESTER	
CHEM 1151 General Chemistry I	5 cr	BIOL 1011 General Biology I	5 cr
COMP 1120 College Writing	3 cr	CHEM 1152 General Chemistry II	5 cr
MATH 1296 Calculus I <sup>^</sup>	<u>5 cr</u>	Social/Behavioral science course <sup>1</sup>	<u>4 cr</u>
Total: 13 cr		Total: 14 cr	
SECOND YEAR*			
BIOL 1012 General Biology II	5 cr	BIOL 2101 Cell Biology	3 cr
BIOL 1761 Human Anatomy	4 cr	CHEM 2522 Organic Chemistry II	4 cr
CHEM 2521 Organic Chemistry I	4 cr	PHYS 1001 Introduction to Physics <sup>2</sup>	5 cr
COMM 1112 Public Speaking	<u>3 cr</u>	Social/Behavioral science course <sup>1</sup>	<u>4 cr</u>
Total: 16 cr		Total: 16 cr	
THIRD YEAR*			
BIOL 4501 Microbiology	4 cr	ECON 1023 Principles of Economics: Micro	
COMP 3XXX Advanced Writing	3 cr	or ECON 1022 Principles of Economics: Macro	3 cr
PHYS 1002 Introduction to Physics <sup>2</sup>	5 cr	Liberal education courses <sup>3</sup>	<u>13 cr</u>
Liberal education course <sup>3</sup>	<u>3-4 cr</u>		Total: 16 cr
Total: 15-16 cr			

\*Actual courses and credit loads will vary each semester based on the student's declared major and/or minor areas.

<sup>^</sup>First math course is determined by math placement exam. This schedule presupposes placement into MATH 1296.

<sup>1</sup> Students are required to take two social/behavioral science courses. Recommended courses include PSY 1003 General Psychology and SOC 1011 Introduction to Sociology.

<sup>2</sup> Students may instead take Phys 2011 and 2012, which require the completion of MATH 1296 and 1297, Calculus I and II.

<sup>3</sup> In addition to the pre-pharmacy course requirements, students must complete at least 30 credits of general education (non-science, non-mathematics, non-professional) courses. Pre-pharmacy credits earned in social/behavioral sciences, English composition, economics, and public speaking apply toward this general education requirement.

For additional information:

<p><b>Pre-Pharmacy information:</b> Swenson College of Science &amp; Engineering - Student Affairs Office University of Minnesota Duluth 140 Engineering Building 1303 Ordean Court Duluth, MN 55812 218-726-7585 csesa@d.umn.edu</p>	<p><b>Doctor of Pharmacy information:</b> University of Minnesota, College of Pharmacy Duluth campus 232 Life Science 1110 Kirby Drive Duluth MN 55812 218-726-6000 copd@d.umn.edu</p> <p>Twin Cities campus 5-110 Weaver-Densford Hall 308 Harvard Street SE Minneapolis, MN 55455 612-624-9490 pharmacy@umn.edu</p>
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