



## PRE-PROFESSIONAL STUDIES

# PRE-PHARMACY (PHARMD)

Pharmacists select, compound, preserve, and dispense the drugs prescribed by physicians, dentists, and other practitioners. Patient counselling is also a major component of the pharmacist's work. The University of Winnipeg is an excellent place to fulfill the entrance requirements for pharmacy at the University of Manitoba or other universities across Canada.

## YOUR EDUCATION

### Years 1-2: PRE-Pharmacy at The University of Winnipeg

- Each faculty of pharmacy has its own entrance requirements. To meet the entrance requirements for Pharmacy at the University of Manitoba, you will need to complete **48 credit hours**, including the "Pre-Professional Requirements" listed below.
- Make sure you complete one regular session (September – April) that contains a minimum of 24 new credits of university level degree-credit courses to show you can withstand the rigours and discipline needed for this program.
- Students must also attain a minimum Adjusted GPA of 3.0 to be considered for admission.

### Years 3-6: Professional Studies: Pharmacy

- During your pre-professional studies at The University of Winnipeg, **you will apply for admission to pharmacy at another university**. Enrolment in pharmacy programs is limited, and only highly qualified applicants are chosen. Admission into pharmacy is based on an outstanding academic record; and the Computer-based Assessment for Sampling Personal characteristics (Casper).
- At least four more years are required to complete a pharmacy program

## PRE-PROFESSIONAL REQUIREMENTS

Most students who study **Pre-Pharmacy** at The University of Winnipeg will apply for admission to the Faculty of Pharmacy at the University of Manitoba, but you may choose to apply elsewhere. The courses listed below and the next page are University of Winnipeg courses that satisfy the University of Manitoba's entrance requirements for Pharmacy:

**BIOL-1115(3) Cells and Cellular Processes**

**BIOL-1116(3) Evolution, Ecology, and Biodiversity**

**BIOL-2902 (3) Biology of Bacteria and Archaea**

**CHEM-1111(3) Introduction to the Chemical Properties of Matter**

**CHEM-1112(3) Basic Principles of Chemical Reactivity**

**CHEM-2202(3) Organic Chemistry I**

**CHEM-3502(3) Intermediate Biochemistry I**

**KIN-2204 (3) Human Physiology and KIN-3505 (3) Pathology in Sport Medicine** (NOTE: KIN-3505 has pre-requisite courses outside of these requirements: BIOL-1112(6) OR KIN-2301(3) AND KIN-2204(3) or permission of the instructor)

**MATH-1103(3) Introduction to Calculus I or either of these former courses MATH-1102(3) Basic Calculus (Terminal) OR MATH-1101(6) Introduction to Calculus.** Please note: Introduction to Calculus is required for some University of Winnipeg science degrees.

**STAT-1501(3) Elementary Biological Statistics OR STAT-1301(3) Statistical Analysis I AND STAT-1302 (3) Statistical Analysis II**

**Other Courses:**

**12 credit hours Approved Social Sciences or Humanities Electives**

**3 credit hours of Open Electives (any faculty) at the 1000-level or above** (Academic Writing courses *cannot* be used)

**Other courses** must include a 3-credit hour course which meets the University of Manitoba's Written English (W) requirement. If you take an ENGL-#### course to fulfil this requirement, it will also count towards completing 3 of the 12 credit hours of approved Social Science or Humanities Electives listed above.

**NOTE: All pre-requisite courses must be completed within 10 years of the admission start date**

Please see [University of Manitoba College of Pharmacy webpage and Applicant Information Bulletin](#) for full details.

**YOU SHOULD ALSO KNOW...**

You may apply to study pharmacy at any of the **nine faculties of pharmacy in Canada**, or apply to pharmacy in the United States or elsewhere. Explore your options on the internet or at University of Winnipeg Career Services. Read more about a career as a pharmacist at [www.pharmacists.ca](http://www.pharmacists.ca).

Note: You must consult with the school where you plan to complete your studies in Pharmacy to ensure that you choose an appropriate set of courses and that you'll meet their entrance requirements.

---

**REQUIRED HIGH SCHOOL COURSES**

You must meet The University of Winnipeg's general admission requirements. In addition, you must have **Chemistry 40S and Pre-Calculus Mathematics 40S** in order to take some of the required courses for admission to pharmacy. Biology 40S is recommended.

*What if I don't have these high school courses?* You can still pursue your pre-professional studies, but you might not be able to enroll in certain courses until you obtain the pre-requisites. There are two ways you can do this here: take "Foundation" courses at UWinnipeg that are equivalent to high school-level math and science (MATH-0041 & MATH-0042; CHEM-0100) or complete high school courses at The Collegiate.

**HOW TO APPLY**

For details on application requirements and deadlines, and to apply online, please visit: [uwinnipeg.ca/apply](http://uwinnipeg.ca/apply).

Note: Admission to The University of Winnipeg does not guarantee admission to Pharmacy.

(In any case where the University's Academic Calendar and this fact sheet differ, the current Calendar takes precedence.)

**CONTACT US**

**Academic Advising**  
P: 204.786.9257  
E: [advising@uwinnipeg.ca](mailto:advising@uwinnipeg.ca)