



UNIVERSITY  
OF MANITOBA  
Faculty of Pharmacy

# BSc. Pharm.



because  
your  
**Future**  
is  
**Now**



Are you Ready?

## Are you ready to make the commitment?

When considering a career choice, have you considered whether you:

- Want to be in a people oriented profession?
- Enjoy helping and caring for people?
- Want to be in a health profession?
- Want to have mobility in your career?
- Are willing to upgrade your knowledge throughout your career?
- Maintain the patient's needs as your number one priority?

If you said yes to all of the above...then you are ready for a career in pharmacy!



**Pharmacy** has been traditionally thought to be the career involving only drugs and chemistry. Nothing could be further from the truth! Pharmacy has grown into a dynamic health care profession. In recent times, the practice of pharmacy has shifted from a product-centred approach to a more patient-centred practice. This shift has been driven by the development of "Pharmaceutical Care"; a model of practice centred on identifying, resolving, and preventing drug related problems. Its primary objective is to meet the needs and improve the quality of life of the patient. New drugs and treatments for illnesses are being developed every day, and pharmacists need to maintain an understanding of new therapeutic options in the health care system.

### History

Patient-focused care is what drives pharmacy practice and pharmacy education. Pharmacy education in Manitoba has changed dramatically throughout the past 100 years. From the program's first class of 15 students in 1899, to the first female graduate in 1900, up to today's graduating classes of 50 energetic young pharmacists, the Faculty has prepared its graduates to practice in Manitoba, in Canada, and the world.

### Students

Pharmacy students at the University of Manitoba form a dynamic group of individuals, numbering over 200 undergraduate and post-graduate students. The faculty serves to educate Manitobans and also students from across Canada and around the world. Although they all have varying educational, professional, and cultural backgrounds, Manitoba students share the common goal of a professional commitment to Pharmacy and promoting positive health practices for their patients.

### Faculty

The Faculty of Pharmacy has over 30 professors who are leading experts in drug development and design, pharmacokinetics, clinical research, pharmacoeconomics and professional practice. In addition, over 100 pharmacists practicing in various settings participate in clinical and experiential programs.



## Mission Statement

### Mission Statement

**The Faculty of Pharmacy** is an educational environment that facilitates the integration of pharmacy scholarship in the areas of practice, research, and service to affect the optimal health outcomes for individuals and communities, and the advancement of the profession of pharmacy.

# B.Sc. Pharm.



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## Are you ready for a challenge?

The University of Manitoba offers a challenging 5-year program leading to a Bachelor of Science in Pharmacy (1 year of pre-professional studies in University 1, followed by 4 years in the Faculty of Pharmacy).

If you are a high school student, it is recommended to take courses that satisfy University 1 entrance requirements:

English 40S/G  
Math 40S (pre-calculus)  
Chemistry 40S

University 1 required courses:

Chemistry (6 credit hours)  
Biology (6 credit hours)  
Calculus (3 credit hours)  
Arts Electives (6 credit hours)  
Open Electives (9 credit hours) The electives must include a 3 credit hour course which will meet the University's Written English (W) requirements, 90 level courses are NOT acceptable.

Admission selection is based upon three criteria\*:

Adjusted Grade Point Average  
A written essay/problem solving exercise



\*For more details on admission criteria, please refer to the Admissions Bulletin available from the Enrolment Services Department.

Once admitted into the Faculty, students are challenged with a program that integrates physical, clinical, and social sciences. The Pharmacy program incorporates instruction in analytical, biological, medicinal, synthetic chemistry, anatomy, physiology, pathophysiology, microbiology, and immunology. Emphasis is placed on communication skills in preparation to interact effectively with patients and other health care professionals. There is also an increasing emphasis on methodology and application of Pharmaceutical Care in the provision of modern pharmacy practice.

Clinical experiential programs commence in first year to introduce the student to pharmacy practice. This is followed by more complex interactions in each succeeding year of the program, which incorporates training in the safe and efficient distribution of medications, leading to instruction in Pharmaceutical Care in both community and hospital practice.

A variety of practitioners with backgrounds, in community pharmacy, hospital pharmacy, administrative pharmacy, forensics, government pharmacy, clinical pharmacy, and research contribute to all aspects of the pharmacy program. Their contribution includes teaching students in the classroom, the laboratory, and in community and hospital practice sites.

Pharmacy students agree small class sizes and the close contact with faculty members provide them with the most current and comprehensive learning experience. They also note that accessibility to a model dispensary, computing facilities, library resources, and studying facilities are conducive to self-directed learning.



**Community** practice is the site most associated with the profession of pharmacy. Pharmacists here work in neighbourhood pharmacies, chain stores, large department stores, and also medical buildings. In this setting, it is often the pharmacist who is the first line of contact with patients. Community pharmacists are one of the few health professionals who see their patients in the good times and the bad. A major part of their role is to help their patients maintain good health, as opposed to simply treating illness.

#### Are you ready for a dynamic career?

One great advantage of a pharmacy degree is the tremendous flexibility it provides with respect to where and how you practice.



**The pharmaceutical industry** is involved in the designing, development, and marketing of new prescription and non-prescription drugs. Pharmacists apply their knowledge in chemistry, physiology, and pathology to create new therapeutic treatments and commit much time in educating pharmacists, physicians, government, and patients in their new discoveries. Career opportunities in this industry are also available in governmental affairs, marketing and management.

The Industrial Pharmacy Residency Program allows pharmacists to train and gain experience in different areas of the pharmaceutical industry. Within the residency program, exposure to research, regulatory affairs, sales and marketing, medical information, and pharmacoconomics effectively prepares pharmacists to pursue a career in industry.

#### Other Opportunities

In reality, the opportunities for pharmacists are endless! Pharmacy is one of the most versatile health professionals where a pharmacist may choose to practice in a large metropolitan city or a live in a small rural town, practice in Manitoba or have the freedom to practice around the world! Pharmacists practice as specialized lawyers, journalists, consultants, practice in the military and clinical specialties. They organize home visits, health workshops and forums, and become entrepreneurs.

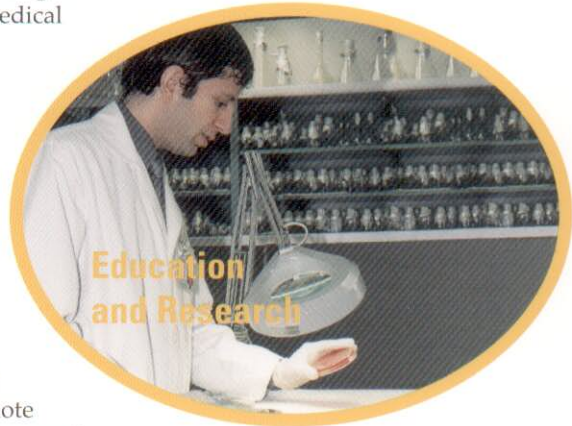


## Hospital and Institution

**Pharmacists** in these settings are important members of the "health care team" and practice along side other health care professionals, such as doctors, nurses, and dietitians. They are involved in the drug related needs of very sick patients and those with more complex conditions and therapies. Many pharmacists specialize in areas such as pediatrics, oncology, cardiology, emergency medicine, or geriatrics.

Across Canada post-baccalaureate Hospital Residency programs are available to develop self-directed practitioners with advanced skills in the practice of pharmaceutical care. These programs emphasize "learning through experiencing" in practice management, and rotation in various medical specialties.

**Pharmacists** who engage in teaching at the undergraduate and post-graduate levels usually have advanced degrees such as Masters in Pharmacy, Doctor of Philosophy, or Doctor of Pharmacy. These pharmacists educate current and future pharmacists, and are often involved in research and in community or hospital practice.



## Education and Research

The Doctor of Pharmacy program is intended to educate pharmacists who can provide and promote intensive patient-focused care. The rigorous program of academic and clinical education, integrates both practice and theory, and allows for self-directed learning to identify, solve, and prevent complex drug-related problems.

**Pharmacists** practice within the provincial and federal government and the provincial licensing bodies. They are involved in the development and maintenance of laws that affect pharmacy practice and also ensure the protection of the public.

The Manitoba Pharmaceutical Association (MPhA), established in 1878, is the licensing and regulatory authority for pharmacy in Manitoba. The MPhA council comprises of practicing pharmacists who participate on the many committees such as Professional Development, Professional Relations, and Standards of Practice, and contribute to maintaining pharmacy practice in Manitoba.



## Government

## Are you ready for an exciting experience?

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Balancing the demands of pharmacy studies with extracurricular activities form the foundation for a successful and enjoyable academic career. Pharmacy students agree it is important to take time for physical fitness, developing important relationships, and taking part in their favourite hobbies. The Pharmacy Students' Association is a group of energetic students who strive to make the school year as enjoyable as possible for students and staff. Year round social engagements, sporting activities, and skits night are just a few of the many events that are planned to provide relief from the stresses of the year, bringing together staff, students, and professionals.



**The Canadian Association of Pharmacy Students and Interns (CAPSI)** is the national pharmacy student association whose goals are to promote pharmacy education, the interests of pharmacy students, and to provide forums for the exchange of ideas regarding the profession. CAPSI is involved in organizing national competitions in patient counselling, compounding, and essay writing and is a sponsor of many awards and scholarships for pharmacy students. CAPSI also

sponsors the annual Professional Development Week where pharmacy students from across the country come together along with the leaders in government, industry, and the profession to network and deal with current issues concerning pharmacy students.

## Faculty Activities

**Pharmacy Awareness Week (PAW)** serves to educate the public about pharmacy. Each year students, faculty, and practicing pharmacists carry out information forums, promotional programs, and presentations in schools and homes of the elderly. This event serves to increase awareness about the profession and to provide the public with the tools to better care for their health and drug related needs.

The Faculty of Pharmacy actively participates in the University of Manitoba's **Mini University**. Each summer, young children are introduced to the various facets of pharmacy practice. From developing valuable communication skills to basic manufacturing, current pharmacy students invest much time and effort in sparking the interest of Manitoba's future pharmacists.

MAR/05



Are you Ready?



# At a Glance

# Are you ready to get the information?

## Faculty of Pharmacy

University of Manitoba

Winnipeg, Manitoba

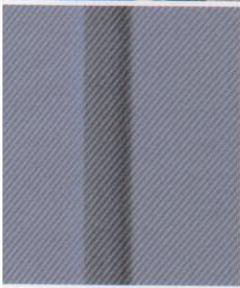
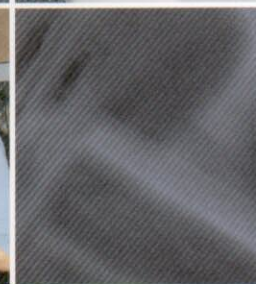
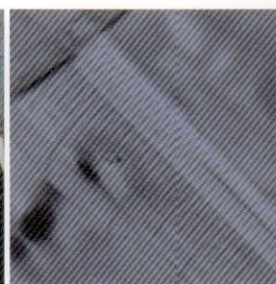
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