



Pharmacy 407P Practice Experience III Manual

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Pharmacy Practice Experience Program Staff

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Acknowledgment

The Pharmacy Practice Experience (PPE) program is an integral component of the course of study leading to the Doctor of Pharmacy degree at Memorial University of Newfoundland.

We appreciate the support of all the dedicated pharmacists who volunteer their time and share their knowledge and experiences by serving as preceptors in the program.

It is acknowledged that while each student has a primary preceptor, they learn valuable information and skills from others at the site (e.g., other pharmacists and health professionals, pharmacy technicians, assistants) and we are grateful for your contribution.

Thank you!

Our program materials continue to develop and evolve. We thank preceptors and students for their constructive feedback and invite you to continue to offer your comments and suggestions for improvement.

We hope that participation in the practice experience program is rewarding and enjoyable for all.

PPE Checklist

This checklist should be referred to at the beginning and during the PPE by the student and preceptor in order to ensure that the necessary items are covered. Check as the task is completed.

Before Starting the PPE

(v)

Student is registered as a Pharmacy Student with the appropriate provincial licensing body	
Student has provided preceptor with letter of introduction	

First Day

Student is introduced to pharmacy staff members, with a discussion of their roles	
Student is given a tour of the pharmacy which includes location of important areas, including:	
<ul style="list-style-type: none"> • Medication storage, and equipment and supplies, as applicable 	
<ul style="list-style-type: none"> • Pharmacy reference materials/resources 	
<ul style="list-style-type: none"> • Washroom/Lunch room/Coat storage 	
Preceptor discusses with student policies and procedures for:	
<ul style="list-style-type: none"> • Dress code 	
<ul style="list-style-type: none"> • Daily schedule, including breaks, lunch, etc. 	
<ul style="list-style-type: none"> • Telephone answering procedures 	
<ul style="list-style-type: none"> • Security within the pharmacy 	
<ul style="list-style-type: none"> • Confidentiality 	
<ul style="list-style-type: none"> • Internet access 	
<ul style="list-style-type: none"> • Any other pertinent topics 	
Student and preceptor review goals for the PPE & discuss plans for meeting learning objectives	

During PPE

Preceptor provides regular, ongoing feedback to student	
Preceptor completes <i>Preceptor's Evaluation of Student (Midpoint)</i> by end of Week 2; student and preceptor discuss student's performance at midpoint and review plan for meeting learning objectives	
Student submits required work to preceptor for review (e.g., DI responses, written reflection)	

End of PPE

Preceptor reviews student's written reflection	
Student completes/submits required documentation <ul style="list-style-type: none"> • <i>Required Submissions</i> • <i>Student's Evaluation of the Preceptor & Site</i> • <i>Student's Evaluation of the PPE Program (Survey in Brightspace/ CORE)</i> 	
Preceptor completes/submits required documentation <ul style="list-style-type: none"> • <i>Preceptor's Evaluation of the Student, including Attendance Certification</i> • <i>Preceptor's Evaluation of the PPE Program</i> 	
Student and preceptor discuss student's goals/priorities for future development	

Introduction

Educational Outcomes

The Association of the Faculties of Pharmacy in Canada (AFPC) sets the standards for pharmacy education. The goal is to graduate **Professionals** whose core role is to serve as **Care Providers** who use their medication therapy expertise to benefit patients, communities, and populations through the integration of **Communicator, Collaborator, Leader-Manager, Scholar** and **Health Advocate** roles. (See Figure 1.) The AFPC Educational Outcomes have been adopted by the School of Pharmacy and guide the curriculum and experiential learning in the program.



Figure 1. Conceptual framework for AFPC Educational Outcomes

The full document outlining the AFPC Educational Outcomes is available at http://afpc.info/system/files/public/AFPC-Educational%20Outcomes%202017_final%20Jun2017.pdf

Professional Competencies

The **National Association of Pharmacy Regulatory Authorities (NAPRA)** document, *Professional Competencies for Canadian Pharmacists at Entry to Practice* describes entry-to - practice requirements for initial licensing of pharmacists in Canada. The foundation for all competencies is provided through the knowledge, skills and attitudes gained during the completion of the pharmacy degree program. Logically, the NAPRA competencies and the AFPC Educational Outcomes for pharmacy graduates are closely aligned, as summarized in the table below.

Professional Competency (NAPRA)	Educational Outcome (AFPC)
Pharmacists...	Pharmacy graduates...
<i>Meet patients' health and drug-related needs</i> (in partnership with patient and collaboration with other health professionals)	<i>Provide patient-centered pharmacy care</i> by using their knowledge, skills and professional judgement to <i>facilitate management of a patient's medication and overall health needs</i>
<i>Communicate</i> effectively with patients, the pharmacy team, other health professionals and the public, providing education when required	<i>Communicate</i> effectively in lay and professional language, using a variety of strategies that take into account the situation, intended outcomes of the communication and diverse audiences
Work in <i>collaboration</i> with others to deliver services, make best use of resources and ensure continuity of care in order to achieve patients' health goals	<i>Work collaboratively</i> with patients and intra- and inter-professional teams to provide safe, effective, efficient health care
Ensure accurate <i>product distribution</i> that is safe and appropriate for the patient	Engage with others to <i>optimize the safety, effectiveness and efficiency of health care</i> and contribute to a vision of a high-quality health care system
<i>Oversee</i> the practice setting with the goal of ensuring safe, effective and efficient care	
Collaborate in developing, implementing and evaluating policies, procedures and activities that <i>promote quality and safety</i>	
Use their expertise to <i>advance the health and wellness</i> of patients, communities, and populations	Demonstrate care for individual patients, communities and populations by using pharmacy expertise to <i>understand health needs and advance health and well-being of others</i>
<i>Access, retrieve, critically analyze and apply relevant information</i> to make evidence-informed decisions in practice	Take responsibility for excellence by <i>applying medication therapy expertise, learning continuously, creating new knowledge and disseminating knowledge</i> when teaching others
Practise within legal requirements, demonstrate <i>professionalism</i> and uphold professional standards of practice, codes of ethics and policies	Deliver pharmacy care to patients, communities and society through <i>ethical practice and the high standards of behavior</i> that are expected of self-regulated professionals

¹ Competencies

Job-related knowledge, skills, abilities, attitudes and judgements required for competent performance by members of a profession (as defined in NAPRA document, *Professional Competencies for Canadian Pharmacists at Entry to Practice*, March 2014, http://napra.ca/sites/default/files/2017-08/Comp_for_Cdn_PHARMACISTS_at_EntrytoPractice_March2014_b.pdf)

Pharmacy Practice Experience III

The primary objective of the practice experience program is to learn from experience while under the supervision of a pharmacist preceptor.

Pharmacy Practice Experience (PPE) III consists of a 4-week placement (160 hours) after the **third** year of the entry-to-practice Pharm. D. program in a pharmacy setting where there is opportunity to participate in patient care activities.

During PPE III, students will continue to develop their patient care skills by working with a variety of patients and the healthcare team to appropriately identify, prevent, and resolve drug-therapy problems. Effective communication skills, professionalism, and teamwork are expected.

Courses completed to date in the academic program are listed in the Appendix.

Students and preceptors are referred to the [*PPE Program Handbook*](#) for information about the practice experience program structure, administration, and policies.

Using the PPE III Manual

The Pharmacy 407P manual is not the same as previous rotation manuals in our program in that it contains few prescribed questions or activities for the student to complete. Instead, it describes the learning outcomes for the student during PPE III and *suggested* activities through which those outcomes may be achieved. In addition to, and/or instead of, the suggested activities, the preceptor and student may have other ideas for useful activities to maximize the student's experience. Any *required* activities to be completed are clearly noted in the applicable section.

Students should indicate to their preceptors any areas in which they have had previous experience and any areas in which they may need particular help.

Students are expected to take responsibility for their learning and show some self-direction in how they achieve this learning. Students may find it helpful to consider the learning objectives prior to starting the placement.

A **written reflection** illustrating their learning is required to be submitted by each student at the end of the practice experience. In their reflections, students will demonstrate how they have met the seven key roles of *Care Provider, Communicator, Collaborator, Leader-Manager, Health Advocate, Scholar, and Professional*. Students will describe some of the work/activities completed during their placement, as well as their interactions with others, providing evidence of achievement of the educational outcomes. It is recommended students keep a **log or journal** of activities completed during their PPE, confidentially documenting relevant notes.

The summary should be reviewed by the preceptor and will be assessed by the PPE Coordinators for completeness, quality of supporting evidence, and the student's ability to reflect upon the continuing development of their knowledge and skills during the practice experience.

Preceptor's Assessment of Student

The preceptor should **review**, for accuracy and completeness, the following activities completed by the student:

- 1) **Student self-assessments** (e.g., self-care recommendation, medication review, medication counselling) to facilitate the provision of **feedback**.
- 2) **Drug information responses** (not including the critical appraisal).
- 3) **Written self-reflection** with evidence of meeting the educational outcomes.

The preceptor will assess the student at the **midpoint** of the rotation (end of week 2) and at the **end** of the rotation (week 4) by completing the *Preceptor's Evaluation of Student* form.

The **midpoint** evaluation is a vital opportunity for communication between the preceptor and student and enables the student to consider and reflect on their progress.

Concerns or performance issues should be directed to the Practice Experience Coordinator as soon as they are identified (i.e. prior to the midpoint if recognized) **so appropriate measures can be taken to help the student succeed.**

Meeting Educational Outcomes

Described in the following tables are the educational outcomes for the rotation accompanied by proposed activities through which the objectives of PPE III may be met and students’ abilities assessed.

The below activities **do not constitute an exhaustive list**. Students may complete an activity that is **not** in the table(s) and relate it to achievement of a learning outcome. A single activity may relate to the achievement of **more than one** competency/outcome. Not all suggested activities are required to be completed.

Tools and resources including self-assessment forms (e.g., for medication reviews, patient counseling, self-care recommendations, etc.), a drug information response form, and other relevant material are available in the students’ Brightspace.

1. Care Provider Role

*The core of the discipline of Pharmacy is **care provider**. Pharmacists use their knowledge, skills, and professional judgement in the management of a patient’s medication and overall health needs.*

Outcomes/Competencies	
The student is expected to:	
<i>CP1</i>	• Practise within the pharmacist scope of practice and expertise.
<i>CP2.1</i>	• Collect and interpret relevant, necessary information about a patient’s health-related care needs.
<i>CP2.2</i>	• Formulate assessments of actual and potential health-related issues including the identification and prioritization of drug therapy problems.
<i>CP2.3 (CL)</i>	• Assess treatment strategies and make recommendations to prevent, improve, or resolve issues in collaboration with the patient and other health team members, as appropriate.
<i>CP2.4</i>	• Participate in the implementation of care plans by taking part in compounding and/or dispensing; making a referral; adapting, initiating, continuing, discontinuing or administering medication as authorized; and/or by engaging the patient/care-giver through education. • Complete proper documentation.
<i>CP2.5</i>	• Follow-up by monitoring and evaluating progress toward achievement of the patient’s goals of therapy, and adjusting plans, if needed.
<i>CP3</i>	• Contribute to the continuous quality improvement of health care by adopting strategies that promote patient safety.
<i>Suggested Activities</i>	i) Patient interview and assessment, including conducting medication reviews; information gathering from other sources (e.g., chart/profile, electronic health record, laboratory data, consultation with caregivers and other health professionals) ii) participation in deprescribing activities iii) management of medication-related needs (e.g., dispensing medication, prescribing medication ^a , self-care recommendation, administering medication ^a); development of patient care plans; patient education, including device teaching iv) medication reconciliation v) participation in call-back programs, including medication adherence consultations

^{(a)=} in accordance with relevant legislation)

Suggested Activity: Where feasible, participate in **deprescribing** activities.

Deprescribing is an important component of the assessment of the appropriate use of medications and involves reducing, stopping, or changing medications that may be causing harm or are no longer necessary. It is a planned and supervised process that involves a coordinated effort between patients, caregivers, and healthcare professionals.

*Memorial's School of Pharmacy partnered with the [Canadian Deprescribing Network \(CaDeN\)](#) and the Government of Newfoundland & Labrador to create and implement "SaferMedsNL". This initiative served to promote the appropriate use of medications, with a focus on two classes of drugs: **Proton Pump Inhibitors and Sedative-Hypnotics**. The SaferMedsNL public awareness campaign and research study has concluded and data analysis is ongoing through 2023.*

*[Deprescribing resources](#) and algorithms are available on the [SaferMedsNL website](#), however, the website and the resources **are no longer being updated and maintained effective December 30, 2022**.*

- 1.1 a.** Students should review and become familiar with the available deprescribing **sedative** and **reflux resources**.
- b.** Where possible, and **under the direct supervision of a pharmacist, participate in the deprescribing of a sedative or proton pump inhibitor**. This may involve identification of a patient, medication profile review, assessment for appropriateness of deprescribing, initiating a conversation with a patient about deprescribing, providing an educational brochure to a patient, making a deprescribing recommendation, or completion of a "Pharmaceutical Opinion" to communicate with a prescriber.

2. Communicator Role

Pharmacists are effective **communicators** in both lay and professional language. They use a variety of strategies that take into account the situation, intended outcomes of the communication and diverse audiences.

Outcomes/Competencies	
	The student is expected to:
CM1.1, 1.5	• Demonstrate effective oral, non-verbal, or written communication skills using techniques suitable for the intended outcomes of the communication.
CM1.2	• Provide timely, clear responses that are tailored to the context and audience.
CM1.3	• Express facts, evidence, and opinions accurately and effectively.
CM1.4	• Listen, solicit, and respond appropriately to ideas, opinions, and feedback from others.
CM1.6	• Seek and synthesize relevant information from others in a manner that ensures common understanding.
CM1.7	• Document and share information in a manner that optimizes patient safety, confidentiality and privacy.
CM2.1	• Engage in respectful, empathetic, non-judgmental, culturally safe, tactful conversations with others.
CM2.2	• Demonstrate awareness of the impact of one’s own experience level, professional culture, and hierarchy within the health team on effective working relationships, and adapt appropriately to the situation.
Suggested Activities	i) Communication with patients/caregivers (e.g., gathering information, patient interview, provision of patient education, including deprescribing information) ii) interaction with preceptor, intra-and inter-professional team members, including responding to drug information requests iii) delivery of reports or presentations (e.g., written notes or verbal summaries, educational sessions to a group) iv) documentation of patient care activities

3. Collaborator Role

Pharmacists work **collaboratively** with patients, intra- and inter-professional teams to provide safe, effective, efficient health care.

Outcomes/Competencies	
	The student is expected to:
CLI.1	• Establish positive professional relationships, including with patients , pharmacy colleagues, and individuals from other professions.
CLI.2	• Recognize and respect the roles and shared/overlapping responsibilities of all team members and other health providers.
Suggested Activities	i) Effective collaboration with patients ii) effective collaboration with pharmacy colleagues iii) making expertise available to others by providing drug information iv) attendance and participation in educational rounds or sessions v) liaising with other health professionals as patient needs dictate, including in the facilitation of patient transitions from settings of care or providers of care

4. Leader-Manager Role

As **leaders** and **managers**, pharmacists engage with others to optimize the safety, effectiveness, and efficiency of care, contributing to a vision of a high-quality health care system.

Outcomes/Competencies	
	The student is expected to:
LM1.1, 1.4	<ul style="list-style-type: none"> Employ strategies and techniques to optimize pharmacy care, including the use of health informatics.
LM3	<ul style="list-style-type: none"> Demonstrate leadership abilities consistent with personal experience.
LM4	<ul style="list-style-type: none"> Set priorities and manage time to balance patient care, workflow, and practice requirements.
LM4.2	<ul style="list-style-type: none"> Use effective strategies to manage and improve their own practice of pharmacy.
Suggested Activities	<ul style="list-style-type: none"> i) Participation in accurate, safe drug product distribution ii) demonstration of adherence to policies and procedures of the practice setting, in particular those designed to protect the safety of patients and pharmacy personnel iii) utilization of automation or technology (e.g., HealtheNL) to support safe medication use iv) recognition of situations that place patients at risk v) disclosure/reporting of a medication error or incident; completion of an adverse drug reaction report vi) demonstration of organizational skills, ability to appropriately establish priorities and manage workload vii) setting of educational and professional goals

5. Health Advocate Role

Pharmacists are **health advocates** in demonstrating care for individuals, communities and populations by using pharmacy expertise to understand health needs and advance health and well-being of others.

Outcomes/Competencies	
	The student is expected to:
HA1	<ul style="list-style-type: none"> Respond to individual patient’s health needs by advocating with the patient in the patient care environment.
HA1.3, 2.2	<ul style="list-style-type: none"> Promote the health of individual patients, communities, and populations by incorporating information on disease prevention and health promotion into interactions with individual patients or by participating in health promotion initiatives and programs aimed at disease prevention
Suggested Activities	<ul style="list-style-type: none"> i) Participation in a public health campaign or health screening clinic ii) advocating for a patient by speaking on their behalf iii) sourcing appropriate information or resources to assist people in improving health iv) linking patients to an agency or resource to further address health needs

6. Scholar Role

Pharmacists are *scholars* who take responsibility for excellence by applying medication therapy expertise, continuously learning, creating new knowledge, and disseminating knowledge when teaching others.

Outcomes/Competencies

	The student is expected to:
SC1	• Demonstrate understanding of core knowledge covered to date.
SC1.1	• Use a combination of knowledge, critical thinking, and problem-solving skills to make decisions in practice (as appropriate to the role of a student pharmacist) and arrive at recommendations that are appropriate, accurate and practical.
SC2.2	• Respond to questions and provide drug information to others, using a systematic approach to search for information.
SC2.3, 2.4	• Critically appraise health-related research and literature and incorporate the best available evidence into practice.
SC4	• Participate in knowledge exchange; provide effective education to others, including patients , pharmacy colleagues, and individuals from other professions, as required.
Suggested Activities	i) Provision of drug information in response to requests and based on identified needs, including educating patients about medications ii) making evidence-based recommendations iii) creation of patient education materials/pamphlets iv) designing an educational activity or providing an in-service v) participation in research activities, where applicable

Required Activity: Provide drug information & critically appraise the literature

- 6.1 a. Respond to a minimum of two (2) drug information questions** during the PPE. Select questions that are somewhat complex and which encourage an evaluation of **clinical literature**. Document your responses using the *Student Drug Information Request Documentation Form*. Ask your preceptor to provide feedback and initial the form. **References must be cited appropriately.** Refer to MUN Libraries, Guidelines for Citing Resources, <http://guides.library.mun.ca/c.php?g=501741&p=3434605>.
- b. Submit one (1) response from (a) to the School** via Brightspace along with **critical appraisals** of at least **two (2) studies** used in your response. Assess each study by answering the three overarching critical appraisal questions (*Are the results valid? What are the results? How can I apply the results to patient care?*), employing an appropriate **critical appraisal tool** based on the study design (e.g. JAMA, CASP, etc.). Point form responses are acceptable.

7. Professional Role

Pharmacists are **Professionals**. They are responsible and accountable for delivering pharmacy care to patients, communities, and society through ethical practice and high standards of behavior, as expected of self-regulated professionals.

Outcomes/Competencies

Outcomes/Competencies	
<i>PR1.1</i>	The student is expected to:
	<ul style="list-style-type: none"> • Exhibit professional behavior, which includes but is not limited to: <ul style="list-style-type: none"> • treating others with courtesy and respect. • being accessible, diligent, timely, and reliable in service to others. • maintaining privacy and confidentiality. • maintaining a professional image and demeanor, including maintaining composure in difficult situations. • maintaining appropriate professional boundaries with patients and coworkers.
<i>PR1</i>	<ul style="list-style-type: none"> • Adhere to high ethical standards in the delivery of pharmacy care, ensuring primary accountability to the patient.
<i>PR2.1</i>	<ul style="list-style-type: none"> • Take responsibility and accountability for actions and decisions.
<i>PR2.3, 2.4</i>	<ul style="list-style-type: none"> • Practice within legal requirements by applying federal, provincial legislation, policies, by-laws, and standards.
<i>PR3</i>	<ul style="list-style-type: none"> • Demonstrate awareness of own knowledge and abilities; show commitment to meeting learning needs in the management of continuing personal and professional development.
<i>Suggested Activities</i>	i) Participation in day-to-day activities which includes: fulfilling responsibilities to patients and colleagues; honouring the laws and regulations that govern the profession of pharmacy; maintaining professional composure ii) recognizing or responding to situations presenting ethical dilemmas iii) conducting self-assessment iv) undertaking learning activities to address limitations in competence and/or performance, as required

Summary of Required Submissions

The following items must be submitted to the School:

1. Written Reflection: Must be submitted in Brightspace **no later than one (1) week after the end** of PPE III. It must be clearly and concisely written and show reflection on the student's part, covering each of the seven domains (*Care Provider, Communicator, Collaborator, Leader-Manager, Health Advocate, Scholar, and Professional*). It should be between 1500 and 2000 words length (approximately 3-4 pages single-spaced).

The following points should be considered to help guide the writing of the summary:

- Activities you completed to meet the stated learning objectives
 - The connection between a particular activity and the AFPC role(s)
 - Specific outcomes or key competencies learned
 - Personal attributes (knowledge, skills, motivations) that influence self-development and professional performance
 - Actionable goals for future practice
2. Critical Appraisal of Literature: A *Drug Information Response Form* and critical appraisal of the literature, including tool used, must be submitted in Brightspace **by the end of the rotation**.

Evaluation

Pharmacy Practice Experience III is an academic course and must be successfully completed in order to enter the next year of pharmacy study and to graduate from the School of Pharmacy.

Overall evaluation of the PPE will result in a grade of **Pass or Fail**. The final grade will be determined by the **PPE Evaluation Committee** of the School of Pharmacy.

A passing grade for PPE III is contingent upon:

- Ability of the student to **meet the required competencies**, as assessed by the **preceptor** using the evaluation tools supplied by the School.
 - The competency of **professionalism**, in addition to being assessed by the preceptor using the *Preceptor's Evaluation of Student* form, includes professional behavior as demonstrated by adherence to:
 - *School of Pharmacy's Code of Professional Conduct for Pharmacy Students, Pledge of Professionalism, Professional Attire Guidelines, and Student Guidelines and Best Practices when Communicating Online*
 - *Memorial's Student Code of Conduct*
 - *Standards, Guidelines and Policies governing the Practice of Pharmacy* (i.e. as established by the provincial regulatory body)
 - adherence to relevant site policies.
- Satisfactory **completion of activities and questions**, as determined by preceptor's evaluation and/or submission of assignments and reflections to the preceptor and/or School.
- Satisfactory **attendance** record.

Students who conduct themselves in such a manner as to **cause their termination** from the PPE site will be assigned a grade of **Fail** for the rotation.

Appendix: Courses Completed

- Courses Completed to Date
- Courses Remaining to be Completed in the Program

Courses Completed to Date

Course descriptions: <https://www.mun.ca/regoff/calendar/sectionNo=PHAR-0462>

Term	Required Courses
Pre-Pharmacy	Courses required for admission
Pharmacy Year 1	
Fall Year 1	CHEM 2400 Introductory Organic Chemistry I PHAR 2002 Anatomy and Physiology I PHAR 2201 Pharmaceutics I PHAR 2250 Pharmacy Practice I PHAR 2610 Health Systems
Winter Year 1	CHEM 2401 Introductory Organic Chemistry II PHAR 2003 Anatomy and Physiology II PHAR 2004 Introduction to Biochemistry PHAR 2202 Pharmaceutics II PHAR 2251 Pharmacy Practice II PHAR 2620 Social and Ethical Behaviour
Fall/Winter/Spring Year 1	PHAR 2010 Service Learning
Pharmacy Year 2	
Fall Year 2	PHAR 3111 General Biochemistry PHAR 3250 Pharmacy Practice III PHAR 3270 Pharmacotherapy I PHAR 3801 Pathophysiology I PHAR 3805 Pharmacology I
Winter Year 2	PHAR 3006 Immunology PHAR 3251 Pharmacy Practice IV PHAR 3271 Pharmacotherapy II PHAR 3410 Leadership and Health Promotion PHAR 3810 Microbiology of Infectious Diseases PHAR 3825 Medicinal Chemistry
Spring Year 2	PHAR 305P (PPE I): Community Pharmacy (6 weeks)
Pharmacy Year 3	
Fall Year 3	PHAR 4250 Pharmacy Practice V PHAR 4270 Pharmacotherapy III PHAR 4621 Applied Health Research I PHAR 4802 Pathophysiology II PHAR 4810 Pharmacology II PHAR 4860 Pharmacogenomics and Biotechnology
Winter Year 3	PHAR 4251 Pharmacy Practice VI PHAR 4271 Pharmacotherapy IV PHAR 4420 Pharmacy Management I PHAR 4622 Applied Health Research II PHAR 4820 Pharmacokinetics
Spring Year 3	PHAR 406P (PPE II): Hospital Dispensary (2 weeks) PHAR 407P (PPE III): Pharmacy Direct Care (4 weeks)

Courses Remaining to be Completed in the Program

Pharmacy Year 4	
Fall Year 4	PHAR 5250 Pharmacy Practice VII PHAR 5270 Pharmacotherapy V PHAR 5430 Pharmacy Management II PHAR 5815 Pharmacology III PHAR 5830 Applied Pharmacokinetics
Winter Year 4	PHAR 5251 Pharmacy Practice VIII PHAR 5271 Advanced Pharmacotherapy PHAR 5275 Symposium in Pharmacy PHAR 5640 Social Justice and the Pharmacist PHAR 508P PPE IV: Hospital (2 weeks)
Year 5 Advanced Pharmacy Practice Experience (APPE) courses begin in May following Year 4 Winter Semester, and continue through to April of the following year	PHAR 605P APPE: Direct Patient Care (8 weeks) PHAR 606P APPE: Acute Care Hospital (8 weeks) PHAR 607P APPE: Community Pharmacy (8 weeks) PHAR 608P APPE: Elective (6 weeks)

<https://www.mun.ca/pharmacy/programs/pharmd/pharmdprogramofstudy.php>