SCHOOL OF PHARMACY
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www.mun.ca/pharmacy

Dean
Bugden, S., B.Sc.(Pharm.), University of Manitoba, M.Sc. Oxford, Pharm D. University of Washington; Associate Professor

Up-to-date personnel listings are available at www.mun.ca/pharmacy/about/people.php.

1 The Memorial University of Newfoundland Code
The attention of all members of the University community is drawn to the section of the University Calendar titled The Memorial University of Newfoundland Code, which articulates the University’s commitment to maintaining the highest standards of academic integrity.

2 Student Code of Conduct
Memorial University of Newfoundland expects that students will conduct themselves in compliance with University Regulations and Policies, Departmental Policies, and Federal, Provincial and Municipal laws, as well as codes of ethics that govern students who are members of regulated professions. The Student Code of Conduct outlines the behaviors which the University considers to be non-academic misconduct offences, and the range of remedies and/or penalties which may be imposed. Academic misconduct is outlined in UNIVERSITY REGULATIONS - Academic Misconduct in the University Calendar.

For more information about the Student Code of Conduct, see www.mun.ca/student.

2.1 Pharmacy Students
In addition to the Student Code of Conduct above, students in Pharmacy programs are also required to adhere to the Newfoundland and Labrador Pharmacy Board Code of Ethics, the Code of Professional Conduct for Pharmacy Students, and the School of Pharmacy Pledge of Professionalism as outlined at www.mun.ca/pharmacy/.

3 School Description
The School of Pharmacy is committed to providing programs of quality and excellence that will prepare individuals to contribute significantly in pharmacy practice settings. The experiential learning component of the programs ensures students have the opportunity to integrate academic learning with professional practice and to develop the necessary knowledge, skills and attitudes required of practicing pharmacists. The School encourages a close working relationship among students, faculty, and staff, and prides itself on its strong association with and support of the pharmacy community at both the provincial and national level.

Information regarding the School of Pharmacy (undergraduate and graduate programs) is available at www.mun.ca/pharmacy. For additional information on graduate programs see School of Graduate Studies.

Students must meet all regulations of the School in addition to those stated in the general regulations. For information concerning admission/readmission to the University and general academic regulations (undergraduate), refer to UNIVERSITY REGULATIONS.

For information regarding fees and charges, see the Financial and Administrative Services website at www.mun.ca/finance/fees/.

For information regarding scholarships, bursaries and awards, see www.mun.ca/scholarships/scholarships.

3.1 Vision Statement
To be a distinguished and innovative experienced-based pharmacy education program that fosters excellence in practice, professionalism, scholarship, and research to improve our citizens’ health and well-being.

3.2 Mission Statement
The School of Pharmacy:
Cultivates programs of distinction in pharmacy education and research, engages the broader community and offers innovative programs that are destinations of choice for undergraduate and graduate students, employers and funding agencies, and provides leadership in pharmacy practice and research.

3.3 Accreditation Status
The Bachelor of Science (Pharmacy) program of the School of Pharmacy at Memorial University of Newfoundland has been awarded Full Accreditation Status by the Canadian Council for Accreditation of Pharmacy Programs for the period 2017-2021.

The Doctor of Pharmacy program of the School of Pharmacy at Memorial University of Newfoundland has been awarded Provisional Accreditation by the Canadian Council for Accreditation of Pharmacy Programs for the period 2017-2021.

4 Description of Programs
Students previously admitted to the former Bachelor of Science (Pharmacy) program, and in good standing, must complete all program requirements by 2021. Students currently completing the requirements for this program must follow the Calendar regulations for the Academic year in which they were admitted to the program. Memorial University of Newfoundland Calendars by Academic year can be viewed at www.mun.ca/regoff/calendar.php.

4.1 Doctor of Pharmacy (Pharm.D.)
The School of Pharmacy offers two program options leading to the undergraduate Doctor of Pharmacy (Pharm.D.) degree program, the full-time, entry-to-practice program and the part-time program for working professionals.

4.1.1 Doctor of Pharmacy (Pharm.D.), Full-Time Program
The full-time, entry-to-practice Doctor of Pharmacy (Pharm.D.) program prepares students to graduate as medication therapy experts, prepared to embrace the full scope of pharmacy practice. Students are required to complete 30 credit hours of specific prerequisite courses prior to entry into the program, followed by five years of study in the pharmacy program. The program is student-focused, comprehensive, and experience-based. The curriculum provides students with the scientific knowledge and clinical skills necessary to enter professional practice. Instructional methods emphasize critical thinking, problem-solving, communication, professionalism, and ethical behaviours. During the program, students will develop an understanding of the professional and societal responsibilities of a
pharmacist, and will recognize the need for lifelong learning. The extensive Pharmacy Practice Experience component prepares students for a variety of professional settings. The aim is to graduate students who are scientific inquirers, interprofessional collaborators, independent decision makers, and leaders who have the ability to adapt their practice to fulfill their evolving professional roles. Pharm.D. graduates will be prepared to practice independently in a variety of pharmacy settings including community pharmacy, hospital pharmacy, pharmaceutical industry, pharmacy organizations, research, government, and academia.

All courses in the School of Pharmacy are designated by the abbreviation PHAR.

4.1.1.1 Registration as a Pharmacy Student
A student must register annually with the Newfoundland and Labrador licensing body as a “Pharmacy Student” by September 30th. As part of the registration process, students must provide a current certificate of conduct (criminal record check). Further information may be obtained at www.nlpb.ca. Additionally, prior to the commencement of a Pharmacy Practice Experience in another Canadian jurisdiction, a student must register with the respective provincial or territorial licensing body. Further requirements may exist for international Pharmacy Practice Experience. A student who fails to meet the registration requirements will be required to withdraw from the program.

4.1.1.2 Pharmacy Practice Experience (PPE)
Through Pharmacy Practice Experiences, the program aims to prepare students for exemplary pharmacy practice. Students are expected to display appropriate communication, professionalism, and teamwork, and demonstrate increased independence and critical reasoning as they progress in the program. PPEs consist of early and intermediate experiences as well as advanced pharmacy practice experiences (APPE). PPEs expose students to situations which cannot be provided in the classroom.

1. The School of Pharmacy is responsible for providing overall direction for practice experiences and will oversee the placement of students at sites. Students may be assigned to any participating site within the Province of Newfoundland and Labrador; a request to complete a PPE outside the province may be considered.
2. Students are responsible for all travel and accommodation costs associated with the PPE.
3. Students are required to provide evidence of a valid Standard First Aid Level C certificate for all PPEs. Evidence of recertification must be submitted no later than one month before the expiry date of the certification.
4. Students must comply with the policies of the site to which they are assigned. Sites may have requirements for immunization, testing or documentation beyond those required by the School. Students are required to complete these requirements in a timely fashion and at their own expense. Students unable to meet these site requirements may be delayed in their program or prevented from completing their program of study.

4.1.1.3 Pharmacy Practice Experience Evaluation
1. Evaluation of the student’s performance is conducted by the preceptor responsible for supervising the student during the PPE. Preceptors determine the competency level of the student for each of the outcomes.
2. The School determines the grade of each PPE, based upon the evaluation provided by the preceptor. Students will be graded as PAS (pass) or FAL (fail).
3. Students who conduct themselves in such a manner as to be terminated from the PPE site will be assigned a grade of FAL (fail) for that PPE and may be required to withdraw from the program.

4.1.2 Doctor of Pharmacy (Pharm.D.) for Working Professionals, Part-Time Program
The Doctor of Pharmacy (Pharm.D.) for Working Professionals is a part-time undergraduate program designed for practicing pharmacists who wish to remain employed while pursuing the degree of Doctor of Pharmacy. A cohort-based learning environment offers an effective blend of theory and practice. The program is comprised of 15 courses totalling 55 credit hours and can be completed either as a three- or a four-year option. The program supports a patient-centered course of study and will be delivered through a combination of online courses, on-campus clinical skills workshops, and experiential learning.

All courses in the School of Pharmacy are designated by the abbreviation PHAR.

4.1.2.1 Registration as a Pharmacist
A student must be licensed as a “Pharmacist” through the student’s pharmacy licensing body in the province, territory, or country in which they reside. Applicants will be asked to submit proof of licensure with the application for admission to the School and must maintain licensure throughout the program. Additionally, prior to the commencement of an Advanced Pharmacy Practice Experience in another jurisdiction, a student must register with the respective licensing body. Further requirements may exist for international Advanced Pharmacy Practice Experiences. A student who fails to meet the registration requirements will be required to withdraw from the program.

4.1.2.2 Advanced Pharmacy Practice Experience (APPE)
1. The Pharm.D. for Working Professionals requires the completion of two Advanced Pharmacy Practice Experiences (APPE) in the final year of the program. Students may request to complete both APPE courses in either Winter semester or Spring semester of the final year of the program.
2. The School of Pharmacy provides overall direction for practice experiences and will oversee the placement of students at practice sites. Students are responsible for all travel and accommodation costs associated with APPEs.
3. For all APPEs, students are required to provide evidence of a valid Standard First Aid Level C certificate. Evidence of recertification must be submitted no later than one month before the expiry date of the certification.
4. Students are required to provide evidence of authorization to administer drugs by injection prior to the first APPE.
5. Students must comply with the policies of the site to which they are assigned. Sites may have requirements for immunization, testing or documentation beyond those required by the School. Students are required to complete these requirements in a timely fashion and at their own expense. Students unable to meet these site requirements may be delayed in their program or prevented from completing their program of study.

4.1.2.3 Advanced Pharmacy Practice Experience Evaluation
1. Evaluation of the student’s performance is conducted by the preceptor responsible for supervising the student during the APPE. Preceptors determine the competency level of the student for each of the outcomes.
2. The School determines the grade of each APPE, based upon the evaluation provided by the preceptor. Students will be graded as
3. Students who conduct themselves in such a manner (such as violation of the Student Code of Conduct) as to be terminated from an APPE site will be assigned a grade of FAL (fail) for that APPE and may be required to withdraw from the program.

5 Admission Regulations for the School of Pharmacy

In addition to meeting the UNIVERSITY REGULATIONS students applying for admission to programs offered by the School of Pharmacy must meet the appropriate admission regulations of the School.

5.1 Doctor of Pharmacy (Pharm.D.), Full-Time Program

5.1.1 General Information

1. Admission will be to the first year of the full-time, entry-to-practice Doctor of Pharmacy program in the Fall term.

2. Entry to the School is competitive for a limited number of seats. Priority is given to applicants who are residents of Newfoundland and Labrador. The final decision on admission is determined by the Committee on Undergraduate Student Admissions of the School of Pharmacy.

3. As part of the regular quota, one seat per year is available in the program for bona fide residents of Newfoundland and Labrador First Nations or Aboriginal ancestry who have met the minimum numeric grade and course requirements for admission to the program.

4. The Committee on Undergraduate Student Admissions of the School of Pharmacy considers each applicant’s academic background and information on the applicant’s personal characteristics and achievements as given by the applicant. Normally, personal interviews (which may include both a written and oral component) will be required. Reports from referees may also be considered.

5. The School of Pharmacy does not require certificates of conduct (criminal record checks), or other screening procedures as a condition of admission to its program. However, applicants should be aware that a certificate of conduct will be required as part of the registration process with the Newfoundland and Labrador pharmacy licensing body. In addition, applicants should be aware such certificates of conduct or other screening procedures may be required by practice experience sites used by the University for academic course assignments necessary for graduation. Such sites may refuse to accept students on the basis of information contained in the record check or other screening procedure thus preventing the students from completing a practice experience or other clinical requirement. As a result, such students may not be eligible for promotion or graduation. It is the students’ responsibility to have such checks and screening procedures completed as required and at their own expense. The screening procedures of any given site may change from time to time and are beyond the control of the University.

5.1.2 Application Forms and Deadlines

1. The application for admission or readmission to programs offered by the School of Pharmacy is submitted online; current and returning Memorial University of Newfoundland applicants should apply using the Admissions menu within Memorial Self-Service at www5.mun.ca/admit/twbkbwibis.P_WWWLogin. Applicants who are new to Memorial University of Newfoundland should follow the application instructions at www.mun.ca/undergrad/apply. The deadline date for submission of applications is February 1st for Fall admission.

2. All supporting documentation and fees for admission to the program must be received on or before the deadline of February 1st in any year.

3. Incomplete applications and applications received after the deadline will not be considered.

5.1.3 Admission Requirements

Applicants who are not currently students at Memorial University of Newfoundland must apply for admission to the University under the Categories of Applicants, Admission Criteria and Other Information outlined under UNIVERSITY REGULATIONS - Admission/Readmission to the University (Undergraduate). In addition to meeting these regulations, applicants to the School must meet requirements as indicated below.

1. To be considered for admission, an applicant must have completed the 30 credit hours outlined below by the end of the Winter term for the year in which admission is being sought. These courses and credits must have been taken at Memorial University of Newfoundland or accepted for transfer credit from an academic institution. The 30 credit hours are:
   - Biology 1001 and 1002
   - Chemistry 1050 and 1051
   - 6 credit hours in English (a Critical Reading and Writing (CRW) course is recommended)
   - Mathematics 1000 and 1001
   - Physics 1020 or 1050, and Physics 1021 or 1051

2. For students attending Grenfell Campus, the following course offerings are acceptable for admission to the School;
   - Biology 1001 and 1002
   - Chemistry 1200 and 1001
   - 6 credit hours in English (a Critical Reading and Writing (CRW) course is recommended)
   - Mathematics 1000 and 1001
   - Physics 1020 or 1050, and Physics 1021 or 1051

3. Normally an application will not be considered from an applicant who cannot produce evidence that the above requirements have been met or will have been met by end of the Winter term of the year in which admission is being sought.

4. An unsuccessful applicant who wishes to reapply for admission is required to submit the application forms relevant to the year of reapplication and will be required to enter into the competition for that year.

5.1.4 Acceptance Procedures

1. The decision of the Committee on Undergraduate Student Admissions of the School of Pharmacy will be sent electronically to applicants by the Dean of the School. No other form of notification will be considered official.

2. Applicants shall have 10 calendar days from the date of offer of admission in which to confirm acceptance. The signed intention to
School of Pharmacy 2018-2019

accept the offer must be accompanied by a deposit of $500, which will be credited towards tuition fees. The deposit will be forfeited if the applicant subsequently declines the offer or fails to register in the Pharmacy program for the Fall term.

3. If the acceptance form and deposit is not received within 10 calendar days, the offer by the School will be withdrawn, and the applicant will be notified.

4. Students who fail to register for courses for the Fall term of admission will be considered withdrawn from the program. Such applicants, if they wish to be considered for admission in the future, must submit a new application for admission to the program.

Applicants requiring additional information may refer to the School of Pharmacy website at www.mun.ca/pharmacy.

5.2 Doctor of Pharmacy (Pharm.D.) for Working Professionals, Part-Time Program

5.2.1 General Information

1. Admission will be to the first year of the Doctor of Pharmacy (Pharm.D.) for Working Professionals in the Fall term.

2. Entry to the program is competitive for a limited number of seats. Priority is given to applicants who are residents of Newfoundland and Labrador or who graduated from Memorial University of Newfoundland’s School of Pharmacy. The final decision on admission is determined by the Committee on Undergraduate Student Admissions of the School of Pharmacy.

3. The Committee on Undergraduate Student Admissions of the School of Pharmacy considers each applicant’s professional background and information on the applicant’s personal characteristics and achievements as given by the applicant.

4. The School of Pharmacy does not require certificates of conduct (criminal record checks) or other screening procedures as a condition of admission to its program. However, applicants should be aware such certificates of conduct or other screening procedures may be required by practice experience sites used by the University for academic course assignments necessary for graduation. Such sites may refuse to accept students on the basis of information contained in the record check or other screening procedure thus preventing the students from completing a practice experience or other clinical requirement. As a result, such students may not be eligible for promotion or graduation. It is the students’ responsibility to have such checks and screening procedures completed as required and at their own expense. The screening procedures of any given site may change from time to time and are beyond the control of the University.

5.2.2 Application Forms and Deadlines

1. The application for admission or readmission to programs offered by the School of Pharmacy is submitted online; current and returning Memorial University of Newfoundland applicants should apply using the Admissions menu within Memorial Self-Service at www5.mun.ca/admit/twbkwbis.P_WWWLogin. Applicants who are new to Memorial University of Newfoundland should follow the application instructions at www.mun.ca/undergrad/apply. The deadline date for submission of applications is February 1st for Fall admission.

2. All supporting documentation and fees for admission to the program must be received on or before the deadline of February 1st in any year.

3. Incomplete applications and applications received after the deadline will not be considered.

5.2.3 Admission Requirements

Applicants who are not currently students at Memorial University of Newfoundland must apply for admission to the University under the Categories of Applicants, Admission Criteria and Other Information outlined under UNIVERSITY REGULATIONS - Admission/Readmission to the University (Undergraduate). In addition to meeting these regulations, applicants to the School must meet requirements as indicated below.

To be considered for admission, an applicant:

1. must be a licensed pharmacist in good standing with the licensing body; and

2. must have graduated with a Bachelor’s degree from an accredited Canadian Pharmacy program or the former pharmacist diploma program from the Newfoundland and Labrador College of Trades and Technology; and/or have successfully completed the Pharmacy Examining Board of Canada (PEBC) Qualifying Exam.

An unsuccessful applicant who wishes to reapply for admission is required to submit the application forms relevant to the year of reapplication and will be required to enter the competition for that year.

5.2.4 Acceptance Procedures

1. The decision of the Committee on Undergraduate Student Admissions of the School of Pharmacy will be sent electronically to applicants by the Dean of the School. No other form of notification will be considered official.

2. Applicants shall have 10 calendar days from the date of offer of admission in which to confirm acceptance. The signed intention to accept the offer must be accompanied by a deposit of $1,000, which will be credited towards tuition fees. The deposit will be forfeited if the applicant subsequently declines the offer or fails to register in the Pharmacy program for the Fall term.

3. If the acceptance form and deposit is not received within 10 calendar days, the offer by the School will be withdrawn, and the applicant will be notified.

4. Students who fail to register for courses for the Fall term as set out in Table 2 Doctor of Pharmacy (Pharm.D.) for Working Professionals, Part-Time Program will be considered withdrawn from the program. Such applicants, if they wish to be considered for admission in the future, must submit a new application for admission to the program.
# Program Regulations

## 6.1 Doctor of Pharmacy (Pharm.D.), Full-Time Program

- The 224 credit hour full-time, entry-to-practice Doctor of Pharmacy (Pharm.D.) program requires 30 credit hours before admission and 194 credit hours after admission to the program.
- The program courses normally shall be taken in the Academic Terms in the sequence and course load as set out in Table 1 Doctor of Pharmacy (Pharm.D.), Full-Time Program.

<table>
<thead>
<tr>
<th>Term</th>
<th>Required Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses required for admission as indicated under Admission Requirements, Doctor of Pharmacy (Pharm.D.), Full-Time Program.</td>
<td>Biology 1001 and 1002 Chemistry 1050 and 1051 (St. John's Campus) or Chemistry 1200 and 1001 (Grenfell Campus) 6 credit hours in English (an English Critical Reading and Writing course is recommended) Mathematics 1000 and 1001 Physics 1020 or 1050 and Physics 1021 or 1051</td>
</tr>
</tbody>
</table>
| Fall Year 1, Academic Term 1              | Chemistry 2400  
PHAR 2002  
PHAR 2010 (may be completed in Fall, Winter or Spring)  
PHAR 2201  
PHAR 2250  
PHAR 2610 |
| Winter Year 1, Academic Term 2            | Chemistry 2401  
PHAR 2003  
PHAR 2004  
PHAR 2010 (if not previously completed)  
PHAR 2202  
PHAR 2251  
PHAR 2620 |
| Spring Year 1, Academic Term 3            | PHAR 2010 (if not previously completed) |
| Fall Year 2, Academic Term 4              | PHAR 3111  
PHAR 3250  
PHAR 3270  
PHAR 3801  
PHAR 3805 |
| Winter Year 2, Academic Term 5            | PHAR 3006  
PHAR 3251  
PHAR 3271  
PHAR 3410  
PHAR 3810  
PHAR 3825 |
| Spring Year 2, Academic Term 6            | PHAR 305P |
| Fall Year 3, Academic Term 7              | PHAR 4250  
PHAR 4270  
PHAR 4620  
PHAR 4802  
PHAR 4810  
Statistics 2550 |
| Winter Year 3, Academic Term 8            | PHAR 4251  
PHAR 4271  
PHAR 4420  
PHAR 4820  
PHAR 4860 |
| Spring Year 3, Academic Term 9            | PHAR 406P  
PHAR 407P |
| Fall Year 4, Academic Term 10             | PHAR 5250  
PHAR 5270  
PHAR 5430  
PHAR 5815  
PHAR 5830 |
| Winter Year 4, Academic Term 11           | PHAR 508P  
PHAR 5251  
PHAR 5271  
PHAR 5275  
PHAR 5640 |
| Year 5, Advanced Pharmacy Practice Experience | PHAR 605P  
PHAR 606P  
PHAR 607P  
PHAR 608P |
6.2 Doctor of Pharmacy (Pharm.D.) for Working Professionals, Part-Time Program

- The 55 credit hour part-time, Doctor of Pharmacy (Pharm.D.) for Working Professionals program is available to be completed either as a three- or a four-year option. Normally, a student must complete the degree requirements either in three- or a four-years from the time of initial admission. Courses normally shall be taken in the Academic terms in the sequence and course load as set out in Table 2 Doctor of Pharmacy (Pharm.D.) for Working Professionals, Part-Time Program.
- PHAR 5901-5905 may be offered on a rotating basis and may not be offered in the order shown below.
- A student may request to complete both APPE courses (PHAR 610P, PHAR 611P) in either the Winter or Spring semester of the final year of the program.

### Table 2 Doctor of Pharmacy (Pharm.D.) for Working Professionals, Part-Time Program

<table>
<thead>
<tr>
<th>Term</th>
<th>Three Year Option - Required Courses</th>
<th>Four Year Option - Required Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Year 1, Academic Term 1</td>
<td>PHAR 4900</td>
<td>PHAR 4900</td>
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<tr>
<td></td>
<td>PHAR 4901</td>
<td>PHAR 4901</td>
</tr>
<tr>
<td></td>
<td>PHAR 4902</td>
<td>PHAR 4902</td>
</tr>
<tr>
<td>Winter Year 1, Academic Term 2</td>
<td>PHAR 4903</td>
<td>PHAR 4903</td>
</tr>
<tr>
<td></td>
<td>PHAR 4910</td>
<td></td>
</tr>
<tr>
<td>Spring Year 1, Academic Term 3</td>
<td>PHAR 5901</td>
<td></td>
</tr>
<tr>
<td>Fall Year 2, Academic Term 4</td>
<td>PHAR 5902</td>
<td>PHAR 5902</td>
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<tr>
<td></td>
<td>PHAR 5920</td>
<td></td>
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<td>Winter Year 2, Academic Term 5</td>
<td>PHAR 5903</td>
<td>PHAR 4910</td>
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<td></td>
<td>PHAR 5904</td>
<td></td>
</tr>
<tr>
<td>Spring Year 2, Academic Term 6</td>
<td>PHAR 6900</td>
<td>PHAR 5901</td>
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<tr>
<td></td>
<td>PHAR 6930</td>
<td></td>
</tr>
<tr>
<td>Fall Year 3, Academic Term 7</td>
<td>PHAR 5905</td>
<td>PHAR 5920</td>
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<tr>
<td>Winter Year 3, Academic Term 8</td>
<td>PHAR 610P</td>
<td>PHAR 5903</td>
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<td></td>
<td>PHAR 5904</td>
<td></td>
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<tr>
<td>Spring Year 3, Academic Term 9</td>
<td>PHAR 611P</td>
<td>PHAR 6900</td>
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<td></td>
<td>PHAR 6930</td>
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<tr>
<td>Fall Year 4, Academic Term 10</td>
<td>PHAR 5905</td>
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</tr>
<tr>
<td>Winter Year 4, Academic Term 11</td>
<td>PHAR 610P</td>
<td></td>
</tr>
<tr>
<td>Spring Year 4, Academic Term 12</td>
<td>PHAR 611P</td>
<td></td>
</tr>
</tbody>
</table>

7 Promotion Regulations

7.1 Doctor of Pharmacy (Pharm.D.), Full-Time Program

7.1.1 General Information

1. The Committee on Undergraduate Studies of the School of Pharmacy will determine each student's promotion status at the end of each Academic year.
2. In addition to meeting the promotion regulations for the School, students must meet the general academic regulations (undergraduate). For further information refer to UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate).
3. Success in the program depends on meeting the requirements of all terms.

7.1.2 Promotion Status

A student's promotion status at the end of each Academic year will be in one of the following two categories:

7.1.2.1 Clear Promotion

Clear Promotion means a student can proceed to the next Academic year. Clear Promotion will be granted when the following criteria are met.

1. A student must have completed the Academic year with a weighted average of at least 65% and at least a pass (numeric grade of at least 50% or PAS) in each course. A weighted average will be based on credit hours in the program of study as outlined in Table 1 Doctor of Pharmacy (Pharm.D.), Full-Time Program.
2. A student completing PHAR 2010 must obtain a grade of PAS (pass).
3. A student completing a PPE course (PHAR 305P, 406P, 407P, 508P) must obtain a grade of PAS (pass) in each course.
4. A student must maintain professional and ethical behaviour consistent with the Student Code of Conduct as outlined at: www.mun.ca/pharmacy.

7.1.2.2 Promotion Denied

Promotion Denied means Clear Promotion is not achieved at the end of the Academic year. Promotion Denied will be granted when any of the following criteria are met:

1. A student has obtained less than a 65% weighted average in the Academic year. A weighted average will be based on credit hours in the program of study as outlined in Table 1 Doctor of Pharmacy (Pharm.D.), Full-Time Program.
2. A student has obtained less than 50% in any course or who has received a grade of FAL (fail) in any course within the Academic
year.

3. A student completing a PPE course (PHAR 305P, 406P, 407P, or 508P) has obtained a grade of FAL (fail).
4. A student has failed to obtain Clear Promotion at the end of each Academic year.
5. A student has not maintained the professional and ethical behaviour consistent with the Student Code of Conduct. Notwithstanding the above, the School of Pharmacy may offer the student the option to repeat an Academic year on the grounds of academic difficulties. This may be offered only once during the student's program. This restriction may be waived if it has been demonstrated that the student's academic performance has been adversely affected by factors duly authenticated and acceptable to the Committee on Undergraduate Studies of the School of Pharmacy.

7.1.2.3 Other Information
To be recommended for graduation, a student must have Clear Promotion at the end of Academic year 4, and must have successfully completed all four Advanced Pharmacy Practice Experience (APPE) courses during Academic year 5. The following criteria will be used to assess the APPE courses:
1. A student must demonstrate consistent professional and ethical behaviour that meets the criteria of Student Conduct as outlined at www.mun.ca/pharmacy.
2. A student is required to obtain a grade of PAS (pass) in all four APPE courses (PHAR 605P, 606P, 607P, 608P).
3. Normally, if a student fails an APPE course, the Committee on Undergraduate Studies of the School of Pharmacy may permit the student to continue to the students next scheduled APPE course and require the student to repeat the failed course at a later date. This may extend the duration of the student's program.
4. In certain circumstances, such as violation of student conduct as outlined at www.mun.ca/pharmacy or failure of an APPE course may result in the student being required to withdraw from the program.
5. A student is permitted to repeat only one APPE course. A student who fails an APPE course (PHAR 605P, 606P, 607P, 608P) on a second attempt will be required to withdraw from the program.
6. If a failed grade is received in more than one APPE course, the student will be required to withdraw from the program.

7.1.3 Student Withdrawal
A student may be required to withdraw from the program at any time, if, in the opinion of the Dean of Pharmacy, the student is unlikely to benefit from continued attendance or if acceptable cause is demonstrated. The Dean will recommend to the Registrar that the student is required to withdraw from the program.

7.1.4 Leave of Absence
Upon completion of an Academic year, a student with Clear Promotion may elect to withdraw temporarily from studies. Voluntary withdrawal at other times and for other reasons may be permitted in accordance with UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Registration. In all cases, the intent to withdraw voluntarily should be discussed with the Dean. At the end of this period, the student, in consultation with the Committee on Undergraduate Studies of the School of Pharmacy, should ensure that sufficient revision and preparatory work is undertaken to allow studies to be resumed readily. In the absence of good cause, any such student who does not resume studies on the specified date may be deemed to have left the program.

7.2 Doctor of Pharmacy (Pharm.D.) for Working Professionals, Part-Time Program

7.2.1 General Information
1. The Committee on Undergraduate Studies of the School of Pharmacy will determine each student's promotion status at the end of each Academic year.
2. In addition to meeting the promotion regulations for the School, students must meet the general academic regulations (undergraduate). For further information refer to UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate).
3. Success in the program depends on meeting the requirements of all terms.

7.2.2 Promotion Status
A student's promotion status at the end of each Academic year will be in one of the following two categories:

7.2.2.1 Clear Promotion
Clear Promotion means a student can proceed to the next Academic year. Clear Promotion will be granted when all of the following criteria are met:
1. A student has obtained a grade of pass (numeric grade of at least 50% or PAS) in each course as outlined in Table 2 Doctor of Pharmacy (Pharm.D.) for Working Professionals, Part-Time Program.
2. In the academic years where PHAR 4900 and 6900 are taken, a student has attended the relevant course (PHAR 4900 or 6900) on-campus and obtained a grade of PAS (pass) in the course.
3. A student has maintained professional and ethical behaviour consistent with the Student Code of Conduct as outlined at www.mun.ca/pharmacy.

7.2.2.2 Promotion Denied
Promotion Denied means Clear Promotion is not achieved at the end of the Academic year. Promotion Denied will be granted when any of the following criteria are met:
1. A student has obtained less than a pass (numeric grade of less than 50% or FAL) in any course as outlined in Table 2 Doctor of Pharmacy (Pharm.D.) for Working Professionals, Part-Time Program.
2. In the academic years where PHAR 4900 and 6900 are taken, a student has failed to attend the relevant course (PHAR 4900 or 6900) on-campus and/or has obtained a grade of FAL (fail).
3. A student has maintained professional and ethical behaviour consistent with the Student Code of Conduct as outlined at www.mun.ca/pharmacy.
www.mun.ca/pharmacy.

Notwithstanding the above, the School of Pharmacy may offer the student the option to repeat a course on the grounds of academic difficulties. This may be offered only once during the student's program. This restriction may be waived if it has been demonstrated that the student's academic performance has been adversely affected by factors duly authenticated and acceptable to Committee on Undergraduate Studies of the School of Pharmacy.

7.2.2.3 Other Information
To be recommended for graduation, a student must have Clear Promotion after successful completion of all course requirements.

1. Applied Learning courses (PHAR 4910, 5920, 6930):
   - A student is permitted to repeat only one Applied Learning course. A student who fails an Applied Learning course on a second attempt will be required to withdraw from the program.
   - If a failed grade is received in more than one Applied Learning course, the student will be required to withdraw from the program.
   - In certain circumstances (such as violation of the Student Code of Conduct as outlined at www.mun.ca/student), failure of an Applied Learning course may result in the student being required to withdraw from the program.

2. Advanced Pharmacy Practice Experiences courses (PHAR 610P, PHAR 611P):
   - Normally, if a student fails an APPE course, Pharmacy's Committee on Undergraduate Studies may permit the student to continue to the student's next scheduled APPE course and require the student to repeat the failed course at a later date. This may extend the duration of the student's program.
   - A student is permitted to repeat only one APPE course. A student who fails an APPE course on a second attempt will be required to withdraw from the program.
   - If a failed grade is received in more than one APPE course, the student will be required to withdraw from the program.
   - In certain circumstances (such as violation of the Student Code of Conduct as outlined at www.mun.ca/student), failure of an Applied Learning course may result in the student being required to withdraw from the program.

7.2.3 Student Withdrawal
A student may be required to withdraw from the program at any time, if, in the opinion of the Dean of Pharmacy, the student is unlikely to benefit from continued attendance or if acceptable cause is demonstrated. The Dean will recommend to the Registrar that the student is required to withdraw from the program.

7.2.4 Leave of Absence
Upon completion of an Academic year, a student with Clear Promotion may elect to withdraw temporarily from studies. Voluntary withdrawal at other times and for other reasons may be permitted in accordance with UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Registration. In all cases, the intent to withdraw voluntarily should be discussed with the Dean. At the end of this period, the student, in consultation with the Committee on Undergraduate Studies of the School of Pharmacy, should ensure that sufficient revision and preparatory work is undertaken to allow studies to be resumed readily. In the absence of good cause, any such student who does not resume studies on the specified date may be deemed to have left the program.

8 Supplementary and Deferred Examination Regulations
1. Supplementary examinations may be permitted in some courses offered by the School of Pharmacy. Students seeking to write a supplementary midterm or final examination shall apply in writing by completing the “Application for Supplementary Examination” form which is available from the School’s website at www.mun.ca/pharmacy/programs/bsc/currentstudents.php.
2. This form must be submitted within seven days following release of midterm marks in the case of supplementary midterm examinations or within seven days following release of the final grades in the case of supplementary final examinations. The completed form should be submitted to the Dean's Office for consideration.
3. The transcript will indicate that the final grade was earned as a result of a supplementary examination. Course coordinators shall advise students in the course outline that such a notation will be made on the transcript.
4. A student shall be permitted to write a maximum number of one supplementary examination (excluding Pharmacy Practice courses) during each Academic year of the pharmacy program. For any one registration in a course, a student shall be permitted to write a final supplementary examination only once.
5. For further details please refer to the School’s Supplementary Examination Policy which is available at www.mun.ca/pharmacy or contact the Associate Dean of Undergraduate Studies.
6. Memorial University of Newfoundland has official regulations regarding deferred final examinations, available at UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Exemptions From Final Examinations and Procedures for Applying to Write Deferred Examinations. Deferred midterm examinations may be permitted in some courses offered by the School of Pharmacy. For details refer to the School’s Deferred Examination Policy at www.mun.ca/pharmacy or contact the Associate Dean of Undergraduate Studies.

9 Graduation
Upon meeting the qualifications for any of the programs of the School of Pharmacy, a student must apply by the appropriate deadline date to graduate on the prescribed “Application for Graduation” form. This form may be obtained on-line at the Memorial Self Service at www3.mun.ca/admit/twtkwbsis.P_VWWLogin. Additional information is available from the Office of the Registrar at www.mun.ca/regoff/graduation.
10 Waiver of School Regulations

A student has the right to request waiver of School regulations. A student wishing waiver of University academic regulations should refer to UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Waiver of Regulations.

10.1 General Information

1. The School reserves the right in special circumstances to modify, alter, or waive any School regulation in its application to individual students where merit and equity so warrant in the judgment of the Committee on Undergraduate Studies of the School of Pharmacy.
2. All requests must be submitted to the Committee on Undergraduate Studies of the School of Pharmacy for consideration. A student requesting a waiver of a School regulation must submit the request in writing to the Chair of the Committee on Undergraduate Studies of the School of Pharmacy. Medical and/or other documentation to substantiate the request must be provided.
3. Any waiver granted does not reduce the total number of credit hours required for the degree.

11 Appeal of Regulations

Any student whose request for waiver of School regulations has been denied has the right to appeal. For further information refer to UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Appeal of Decisions.

- An applicant who has been denied admission has the right to appeal this decision of the Committee on Undergraduate Admissions of the School of Pharmacy if it is felt by the applicant that the decision was reached on grounds other than those outlined in the Admission Regulations - Doctor of Pharmacy (Pharm.D.), Full-Time Program and Admission Regulations - Doctor of Pharmacy (Pharm.D.) for Working Professionals, Part-Time Program. The appeal should be made in writing within fourteen days of the notification of the decision and should be directed to the Dean of the School. The letter should state clearly and fully the grounds for the appeal. If the Dean of the School, in consultation with the Registrar, judges the grounds to be sufficient, the formal appeals mechanism will be initiated.

12 Course Descriptions

In accordance with Senate’s Policy Regarding Inactive Courses, the course descriptions for courses which have not been offered in the previous three Academic years and which are not scheduled to be offered in the current Academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Dean of the School.

A student is advised to pay attention to Usage Limitation (UL) for each course to determine its program applicability.

All courses of the School are designated by PHAR and are restricted to students in the School of Pharmacy.

2002 Anatomy and Physiology I provides an overview of human anatomy and physiology throughout the lifespan. It includes aspects of cytology and histology that form a foundation for the practice of pharmacy. The focus will be on developing an understanding of the interrelationships and integration of all systems from the cell to whole organism. Special emphasis is given to the skeletal, muscular, nervous, and endocrine systems.

CR: Nursing 1002
LH: 2; attendance is required
PR: Science 1807

2003 Anatomy and Physiology II provides an overview of human anatomy and physiology throughout the lifespan. It includes aspects of cytology and histology that form a foundation for the practice of pharmacy. The focus will be on developing an understanding of the interrelationships and integration of all systems from cell to whole organism. Special emphasis is given to the circulatory, respiratory, urinary, digestive, and reproductive systems.

CR: Nursing 1012
LH: 2; attendance is required
PR: PHAR 2002 and Science 1807

2004 Introduction to Biochemistry is an introduction to the major organic substances of living organisms, proteins, carbohydrates and lipids: their structure, analysis and biochemical function. Other topics include: enzymes; the biochemistry of membranes, including the plasma membrane and specialized intracellular membranes; and the biochemistry of selected differentiated cells.

CR: Biochemistry 2201 or the former 2101
PR: Chemistry 2400 and Physics 1020 (or 1050), and 1021 (or 1051)

2010 Service Learning requires completion of 20 hours of service in the community in any term within the first year of the program. Students will engage in projects or activities which will benefit both the host organization and the student. It will occur in an approved setting either in the academic community or with an off-campus community group. The goal is to provide opportunities for the student to develop communication and self-reflection learning skills, acquire new frames of reference and perspectives, and gain an enhanced sense of civic responsibility.

CH: 0
OR: 20 hours of service learning

2201 Pharmaceutics I provides an insight into a number of physicochemical basics and explains them within a pharmaceutical context. The course provides the basic foundation necessary for the study of pharmaceutical dosage forms, pharmacokinetiics and bio-pharmaceutics.

LH: 3; attendance is required
PR: Mathematics 1000 and 1001; and Chemistry 1505 and 1501, or Chemistry 1200 and 1201, or equivalent; and Science 1807

2202 Pharmaceutics II is designed to provide the student with an understanding of pharmaceutical dosage forms and their applications. It applies the principles taught in Pharmaceutics I to understand the design and components of the different pharmaceutical preparations.

LH: 3; attendance is required
PR: PHAR 2201 and Science 1807

2250 Pharmacy Practice I is the first of a series of courses where students acquire and apply the knowledge, skills, and attitudes necessary for the practice of pharmacy. The course will include an introduction to calculations, technical skills and the legal and regulatory framework of the practice of pharmacy. The development of competence in the areas of patient care, drug information, communication, professionalism, critical thinking, and teamwork will begin. Application of knowledge and skills will occur in simulated pharmacy practice situations.

AR: attendance is required in practice sessions

CH: 5
CO: all Academic Term 1 Pharmacy courses, with the exception of PHAR 2250
OR: practice sessions 2 hours per week

2251 Pharmacy Practice II continues the acquisition, development, and application of the knowledge, skills, and attitudes necessary for the practice of pharmacy. The legal and professional framework of the practice of pharmacy, patient counselling, and technical skills will be emphasized. Development of competence in the areas of patient care, drug information, communication, professionalism, critical thinking, and teamwork will occur. Application of knowledge and skills will take place in real and simulated pharmacy practice situations.

AR: attendance is required in practice sessions

CH: 5
CO: all Academic Term 2 Pharmacy courses, with the exception of PHAR 2250
OR: practice sessions 3 hours per week
PR: PHAR 2250

2610 Health Systems provides an introduction to the Canadian healthcare system, its development, history, structure, and financing. The federal and provincial governments’ involvement in the healthcare system and health policy will be presented. The roles and responsibilities of the pharmacist within healthcare will also be examined.

2620 Social and Ethical Behaviour introduces the social and cultural factors and determinants that influence health in Canada, and their ethical implications. Theoretical approaches from a social perspective, including value systems in Canada, ethical dilemmas and the role of ethics in pharmacy practice will be discussed.
Pharmaceutics III explores topics in general pharmacology including converting enzyme inhibitors and antagonists, and calcium channel blockers. Cholinergic agents, analgetic and anti-inflammatory agents, insulin and oral metabolism of different pharmacological classes of drugs including anti-diabetic drugs, steroids and related compounds, antihypertensive agents, histamine and antihistaminic agents, diuretic agents, angiotensin converting enzyme inhibitors and antagonists, and calcium channel blockers.

Pharmacology applies principles of drug latentiation and prodrugs is covered. The structures, structure and biological action of drugs together with elementary molecular principles of drug discovery and development. The relationship between molecular medicinally important nuclei and their nomenclature, followed by principles of drug metabolism and regulatory framework governing pharmacy practice, prescription processing, gathering and assessing patient information, patient education, drug information, health promotion, and quality assurance, students will apply their knowledge and skills in the provision of patient care. Effective communication skills, professionalism, and teamwork are expected.

Structured Practice Experience II is a structured practice experience in hospital pharmacy after completion of the second year which will provide an opportunity for students to apply their technical skills and introduce them to patient care activities. The practical experience is normally comprised of four weeks during May/June.

Microbiology of Infectious Diseases examines the various types of micro-organisms (bacterial, viral, parasitic and fungal), the environment in which they are able to multiply and their relationship to human diseases. The classifications of their morphology, mode of reproduction and the metabolic processes, antibacterial and epidemiological principles of infectious diseases and their manifestations are discussed including the principles of immunization.


Medicine presents topics covering the molecular basis of action, efficacy, and toxicity of drugs. It provides an orientation to medically important nuclei and their nomenclature, followed by principles of drug discovery and development. The relationship between molecular structure and biological action of drugs together with elementary molecular modelling, and receptor-ligand interactions will be presented. Concepts of drug metabolism and the relevant metabolic pathways in relation to drug inactivation and toxicity, along with the principles of affinity, selectivity, and potency of drugs is covered. The structural and selected physicochemical properties, mechanism of action, structure-activity relationships, toxic effects at molecular level, and metabolism of drugs including central nervous system.

Medicine is a continuation of Pharmacy 2003 and focuses on selected physicochemical properties, mechanism of action, structure-activity relationships, toxic effects at molecular level, and metabolism of different pharmacological classes of drugs including cholinergic agents, analgetic and anti-inflammatory agents, insulin and oral antidiabetic drugs, steroids and related compounds, antihypertensive agents, histamine and antihistaminic agents, diuretic agents, angiotensin converting enzyme inhibitors and antagonists, and calcium channel blockers.

Pharmaceutics III is a structured practice experience in a community pharmacy. The focus will be on the legal and regulatory framework governing pharmacy practice, prescription processing, gathering and assessing patient information, patient education, drug information, health promotion, and quality assurance, students will apply their knowledge and skills in the provision of patient care. Effective communication skills, professionalism, and teamwork are expected.

Pharmacology is a structured practice course from the set(s) consisting of the course being described and the course(s) listed; LC = Lecture hours per week are 3 unless otherwise noted; LH = Laboratory hours per week; OR = Other requirements of the course such as tutorials, practical sessions, or seminars; PR = Prerequisite(s); UL = Usage limitation(s).
develop their patient education skills. Scenarios will relate to the courses of study in the second year and draw on material studied in earlier years of the program. Students will participate in interprofessional education (IPE) modules with students from other health related programs when such modules are available.

CO: all Academic Term 3 Pharmacy courses
CR: the former PHAR 3150
LC: 0
OR: practical sessions 3 hours per week; tutorials 1 hour per week;
attendance is required
PR: PHAR 3650
UL: applicable only to the Bachelor of Science (Pharmacy) program

3651 Pharmacy Skills continues the development of the skills necessary for pharmacy practice in order to meet the educational outcomes for the second year of the pharmacy program. Students will continue to develop abilities in communication, professionalism, critical thinking, problem-solving, teamwork and self-directed learning. Students will participate in practice sessions necessary to develop an understanding of and skills required in patient assessment and patient education related to patient self-care. Students will build on their pharmacist care skills to meet patients’ drug-related needs in uncomplicated patient scenarios and drug information skills to assess information needs. Scenarios will relate to the courses of study in the second year and draw on material studies in earlier years of the program. Students will participate in interprofessional education (IPE) modules with students from other health related programs when such modules are available.

CO: all Academic Term 4 Pharmacy courses
CR: the former PHAR 3151
LC: 0
OR: practical sessions 3 hours per week; tutorials 1 hour per week;
attendance is required
PR: PHAR 3650
UL: applicable only to the Bachelor of Science (Pharmacy) program

3801 Pathophysiology I examines the nature of disease, causes and effects, and alterations in structure and function of cells. Topics may include cardiovascular, dermatological, gastrointestinal, and respiratory diseases.

CH: 2
CO: PHAR 3270 and 3805
LC: 2
PR: PHAR 2003

3805 Pharmacology I provides an introduction to the general principles of pharmacology including: dose-response relationship, drug-receptor interactions, absorption, distribution, metabolism, and elimination of drugs. The focus will be on the pharmacological basis of the action of drugs leading to therapeutic effects, as well as adverse effects. Topics may include drugs used in the management of cardiovascular, gastrointestinal, respiratory diseases, and anti-inflammatory drugs.

CO: PHAR 3270 and 3801
PR: PHAR 2003

3810 Microbiology of Infectious Diseases examines the various types of micro-organisms (bacterial, viral, parasitic, and fungal), microbial growth, and their relationship to human diseases. The classifications of pathogenicity, morphology, mode of reproduction, and the metabolic process will be discussed.

CH: 2
LC: 2

3825 Medicinal Chemistry examines the functional group recognition and properties of drugs, drug-receptor interactions, structure activity relationships, and rational drug design. The relationship between the chemical structure of a drug and its binding affinity toward intended target enzymes or receptors, and its pharmacological activity, will be discussed.

CR: PHAR 3203 and 3204
PR: Chemistry 2401 and PHAR 3111

4008 Chemotherapy presents the principles of infectious diseases and cancer chemotherapy. Topics to be explored include molecular structure profiles in relation to mechanism of action, drug resistance, and toxicity of antineoplastic drugs. Anticancer activity/ spectrum of activity of antineoplastic, antiviral, antitumor, and antimalarial, antituberculosis, and antiviral/antitumor agents will be discussed. The classification of mechanism of action of cancer chemotherapy agents will be presented. Pharmacokinetic considerations, adverse effects/toxicity, and drug interactions will be explored for these agents.

CH: 2
CO: PHAR 4401
LC: 2
OR: tutorials 1 hour per week
PR: Medication Science PHAR 3006, 3009, 3103, 3203 and 3204
UL: applicable only to the Bachelor of Science (Pharmacy) program

403W Structured Practice Experience III is a structured practice experience in community pharmacy after completion of the third year which will provide an opportunity for students to apply their technical skills and practice and participate in patient care activities. The practical experience is normally comprised of four weeks during May/June.

AR: attendance is required
CH: 0
LC: 0
OR: successful completion of all courses in Academic Terms 5 & 6 of the program
UL: applicable only to the Bachelor of Science (Pharmacy) program

406P Pharmacy Practice Experience II provides two weeks (80 hours) of practice experience in a hospital pharmacy practice setting. The focus will be on the operations of a hospital pharmacy, including drug distribution, policies and procedures, and communicating with other healthcare professionals. Students will apply their knowledge and skills in the provision of pharmacy services. Effective communication skills, professionalism, and teamwork are expected.

AR: attendance is required
CH: 1
PR: all Academic Term 7 & 8 courses

407P Pharmacy Practice Experience III provides four weeks (160 hours) of practice experience in a direct patient care setting. Emphasis will be on continuing to develop patient care skills by working with a variety of patients and the healthcare team to appropriately identify, prevent, and resolve drug-related problems. Effective communication skills, professionalism, and teamwork are expected.

AR: attendance is required
CH: 2
PR: all Academic Term 7 & 8 courses

4201 Applied Pharmacokinetics (same as the former PHAR 3206) is an introduction to biopharmaceutical and pharmacokinetic principles used in the selection, dosing, monitoring and evaluation of drug therapy. Application of these principles in evaluating drug literature and developing drug dosage regimens of selected classes of drugs for individual patients will be discussed.

CR: the former PHAR 3206
PR: Medicine 4300, PHAR 2202 and 3009
UL: applicable only to the Bachelor of Science (Pharmacy) program

4250 Pharmacy Practice V continues the acquisition, development, and application of the knowledge, skills, and attitudes necessary for the practice of pharmacy. Critical appraisal, patient safety, and interprofessional collaboration will be emphasized. Development of competence in the areas of patient care, drug information, communication, professionalism, critical thinking, and teamwork will occur. Application of knowledge and skills will take place in simulated pharmacy practice situations.

AR: attendance is required in practice sessions

4251 Pharmacy Practice VI continues the acquisition, development, and application of the knowledge, skills, and attitudes necessary for the practice of pharmacy. Sterile product preparation, drug information, patient safety, and calculations relevant to hospital practice will be introduced. Critical appraisal and interprofessional collaboration will also be a focus. Continued development of competence in the areas of patient care, communication, professionalism, critical thinking, and teamwork will occur. Application of knowledge and skills will take place in simulated pharmacy practice situations.

AR: attendance is required in practice sessions

4270 Pharmacotherapy III continues the discussion of pharmacotherapeutic management of common diseases and effective management of the patient’s drug therapy. Emphasis will be placed on identifying drug therapy problems, establishing therapeutic outcomes, recommending pharmacological and non-pharmacological therapeutic alternatives, developing individualized therapeutic regimens, and developing a monitoring plan to evaluate adherence, efficacy, and safety. Topics may include autoimmune, infectious, and musculoskeletal diseases.

CH: 4
CO: PHAR 4250, 4802, and 4810
LC: 4
PR: PHAR 3006, 3271, and 3810

4271 Pharmacotherapy IV continues the discussion of pharmacotherapeutic management of common diseases and effective management of patients’ drug therapy. Emphasis will be placed on developing drug therapy problems, establishing therapeutic outcomes, recommending pharmacological and non-pharmacological therapeutic alternatives, developing individualized therapeutic regimens, and developing a monitoring plan to evaluate adherence, efficacy, and safety. Topics may include cardiovascular, endocrine and renal disease, and women’s and
men’s health.
CH: 6
CO: PHAR 4251
LC: 6
PR: PHAR 4270, 4802, and 4810

4302 Patient Care II discusses the principal roles of health systems and health policy with a special emphasis on pharmaceutical policy and its impact on the profession, the public and on the delivery of pharmaceutical care. The principles of health promotion and the role of the pharmacist will be discussed. Students will gain knowledge about health challenges facing society, how education affects health, the roles of the pharmacist in educating and promoting health to patients.
CH: 6
CR: the former PHAR 4301 and the former 3501
PR: PHAR 3301, and the former 2101 and the former 2102
UL: applicable only to the Bachelor of Science (Pharmacy) program

4401 Therapeutics I is a part of a series that looks at the therapeutic management of common diseases. Topics may include but are not restricted to infectious diseases, hematology/oncology, and dermatology. For each disease state discussion will centre around several key issues including: the establishment of desired therapeutic outcomes; development of appropriate pharmacological and non-pharmacological therapeutic alternatives; factors to be considered to aid in the selection of an individualized therapeutic regimen; and the development of a monitoring plan to evaluate efficacy and safety.
CH: 6
CO: PHAR 4008 and 4201
LC: 6
OR: tutorials 2 hours per week; attendance is required
PR: Medicine 4300, PHAR 3006 and 3009
UL: applicable only to the Bachelor of Science (Pharmacy) program

4402 Therapeutics II is a part in a series that looks at the therapeutic management of common diseases. Topics may include but are not restricted to women’s health, men’s health, gastroenterology, musculoskeletal, neurological, respiratory disorders and transplantation. For each disease state discussion will centre around several key issues including: the establishment of desired therapeutic outcomes; development of appropriate pharmacological and non-pharmacological therapeutic alternatives; factors to be considered to aid in the selection of an individualized therapeutic regimen; and the development of a monitoring plan to evaluate efficacy and safety.
CH: 6
CO: PHAR 4008 and 4201
LC: 6
OR: tutorials 2 hours per week; attendance is required
PR: PHAR 4601
UL: applicable only to the Bachelor of Science (Pharmacy) program

4420 Pharmacy Management I introduces the principles of management and leadership as they relate to pharmacy practice. Topics will include the pharmacy practice environment, human resources management, financial management, operations management, marketing, risk management, quality control, and improvement, and effective communications.

4503 Pharmacy Administration introduces students to the basic principles of management as it relates to pharmacy practice. Topics will include human resources and financial management, marketing, strategic planning and the principles and issues associated with safe and appropriate drug distribution. These will be discussed from both a community and an institutional practice focus.
UL: applicable only to the Bachelor of Science (Pharmacy) program

4504 Pharmacy Research and Evaluation I introduces the biostatistical, pharmacoepidemiologic and pharmacoeconomic concepts and develops the skills necessary to the practice of research and evaluation methods in applied pharmacy. The understanding of such methods is an important prerequisite in the critical appraisal of the health literature and the undertaking of evidence-based clinical practice.
CR: the former PHAR 4501
UL: applicable only to the Bachelor of Science (Pharmacy) program

4505 Pharmacy Research and Evaluation II introduces students to principles of critical appraisal and provides opportunities to apply these principles to critique and evaluate current medical literature. Students will be assigned to a tutorial group, which will meet twice during the term to critically appraise at least two recently published studies (journal club). Emphasis will be placed on appropriate application of critical appraisal skills and group discussion of impact of study findings on clinical practice. In addition, this course will also discuss drug utilization reviews and evaluations and the role of the pharmacist.
CH: 1
CR: the former PHAR 4502
LC: 1
OR: tutorials 1 hour per week; attendance is required
PR: PHAR 4504 or equivalent
UL: applicable only to the Bachelor of Science (Pharmacy) program

4620 Applied Health Research introduces the fundamentals of research design, methods, and appraisal necessary to develop the skills to analyze and interpret clinical research. Topics include randomized clinical trials, observational studies, and pharmacoeconomic evaluations. Emphasis will be placed on making valid inferences about drug safety and effectiveness from scientific research. Principles of critically appraising the medical literature will be introduced.
CO: Statistics 2550

4650 Pharmacy Skills continues the development of the skills necessary for pharmacy practice in order to meet the educational outcomes for the third year of the pharmacy program. Students will continue to develop abilities in communication, professionalism, critical thinking, problem-solving, teamwork and self-directed learning. Students will participate in practice sessions necessary to develop an understanding of and skills required in patient assessment. Students will build on their pharmacist care skills to meet pharmacists` drug-related needs in more complex patient scenarios, drug information skills to assess information needs, and medication preparation and dispensing skills to optimize safe and accurate medication delivery. Scenarios will relate to the courses of study in the third year and draw on material studied in earlier years of the program. Students will participate in interprofessional education (IPE) modules with students from other health related programs when such modules are available.
CO: all Academic Term 5 Pharmacy courses
CR: the former PHAR 4150
LC: 0
OR: practical sessions 3 hours per week; tutorials 1 hour per week; attendance is required
UL: applicable only to the Bachelor of Science (Pharmacy) program

4651 Pharmacy Skills continues the development of the skills necessary for pharmacy practice in order to meet the educational outcomes for the third year of the pharmacy program. Students will continue to develop abilities in communication, professionalism, critical thinking, problem-solving, teamwork and self-directed learning. Students will participate in sessions that focus on ethical issues in pharmacy practice and communication with health care providers. Students will build on their patient assessment and pharmacist care skills to meet patients’ drug-related needs in more complex patient scenarios and will use critical appraisal skills to respond to clinical questions. Scenarios will relate to the courses of study in the third year and draw on material studied in earlier years of the program. Students will participate in interprofessional education (IPE) modules with students from other health related programs when such modules are available.
CO: all Academic Term 6 Pharmacy courses
CR: the former PHAR 4151
LC: 0
OR: practical sessions 3 hours per week; tutorials 1 hour per week; attendance is required
PR: PHAR 4650
UL: applicable only to the Bachelor of Science (Pharmacy) program

4802 Pathophysiology II examines the nature of disease, causes and effects, and alterations in structure and function of cells. Topics may include endocrine disorders, renal, rheumatological and neurological diseases, neural crest, and women’s and men’s health.
CO: PHAR 4270 and 4810
PR: PHAR 3801

4810 Pharmacology II will focus on the pharmacological basis of the action of drugs leading to therapeutic effects, as well as adverse effects. Topics may include drugs used in the management of infectious diseases, the endocrine system, and inflammatory diseases, as well as hormonal drugs and angesics.
CH: 2
CO: PHAR 4270 and 4802
LC: 2
PR: PHAR 3006, 3805, and 3810

4820 Pharmacokinetics is an introduction to the biopharmaceutical and pharmacokinetic principles used in the selection, dosing, and monitoring of drug therapy. The concepts of absorption, distribution, metabolism and elimination, pharmacokinetic and pharmacodynamics mechanisms of drug interactions, and the importance of drug monitoring will be explored.
CH: 2
UL: 2
PR: PHAR 2202 and 3805

4860 Pharmacogenomics and Biotechnology provides insight into the development of biopharmaceuticals. Formulation, stability, dispensing, and clinical applications of biotechnology derived protein/peptide drugs will be discussed. The fundamental concepts of pharmacogenetics and pharmacogenomics will be explored. A focus will be on understanding how personalized drug therapy, based on the genetic profile of individuals, can optimize drug therapy and patient care.
CH: 2
UL: 2
PR: PHAR 2202 and 3111

4900 Clinical Skills I is an on-campus, three-day (21 hours) orientation to
the fundamental knowledge and skills for advanced practice. Topics may include
the principles of prescribing, point-of-care testing, drug information
skills, physical assessment, and advanced communication skills. This
course may commence beyond the semester start date.
AR: attendance is required
CH: 2
CO: PHAR 4900 and 4902
UL: applicable only to the Doctor of Pharmacy for Working Professionals
4901 Essentials of Pharmacy Practice provides the foundational principles
and skills of pharmacy practice such as documentation, special populations,
and pharmacokinetics. Health systems, social justice, and informatics may
also be explored.
CH: 4
CO: PHAR 4900 and 4902
UL: applicable only to the Doctor of Pharmacy for Working Professionals
4902 Pharmacy Management and Leadership explores the principles of
change management and leadership as they relate to pharmacy practice.
Topics may include the business environment, the healthcare environment,
continuous quality improvement, business marketing and promotion, human
resources management, pharmacy services implementation, effective
pharmacy operations, and technology in pharmacy practice.
CH: 2
CO: PHAR 4900 and 4901
UL: applicable only to the Doctor of Pharmacy for Working Professionals
4903 Evidence-Based Practice integrates advanced drug information,
therapeutic decision-making, critical evaluation of medical literature, and
synthesis of information to form reliable therapeutic recommendations using
the principles of evidence-based practice. Topics may include critical
appraisal of drug therapy and pharmacy practice research.
PR: PHAR 4900, 4901, and 4902
UL: applicable only to the Doctor of Pharmacy for Working Professionals
4910 Applied Learning I: Leadership and Education focuses on the
development of leadership skills to implement change in practice through
education and advocacy. Topics may include: leadership styles, facilitation
skills, instructional design, and teaching methods. Principles of health
promotion and the importance of advocating change will also be explored.
Students will demonstrate their learning through the completion of applied
learning activities at their practice sites.
PR: PHAR 4902
UL: applicable only to the Doctor of Pharmacy for Working Professionals
500X Structured Practice Experience IV provides experience in clinical
practice for students who participate as members of the healthcare team.
The student will be responsible for providing pharmaceutical care to patients. Activities
will include attending patient care rounds, providing in-services and drug
information, and participating in case presentations. The structured practice
experience is comprised of two six week modules.
AR: attendance is required
CH: 18
LC: 0
PR: successful completion of all course requirements for the degree and
Clear Promotion
UL: applicable only to the Bachelor of Science (Pharmacy) program
508P Pharmacy Practice Experience IV provides two weeks (80 hours) of
practice experience during Academic Term 11 in an institutional direct
patient care setting. This course serves as a transition to the Advanced
Pharmacy Practice Experience. Emphasis will be on developing
independence in providing patient care under the mentorship of a preceptor or
of an advanced practice pharmacy student. Effective communication
skills, professionalism, and teamwork are expected.
AR: attendance is required
CH: 1
PR: all Academic Term 10 courses
5250 Pharmacy Practice VII continues the acquisition, development, and
application of the knowledge, skills, and attitudes necessary for the practice of
pharmacy. Critical appraisal, patient safety, and interprofessional collaboration will be emphasized. Continued development of competence in the
areas of patient care, drug information, communication, professionalism, critical thinking, and teamwork will occur. Students will be expected to demonstrate increased independence during the application of knowledge and skills in
simulated pharmacy practice situations.
AR: attendance is required in practice sessions
CH: 5
CO: all Academic Term 10 Pharmacy courses
LC: 0
OR: practice sessions 3 hours per week
PR: PHAR 4251
5251 Pharmacy Practice VIII is the final course in the series where
students acquire, develop, and apply the knowledge, skills, and attitudes
necessary for the practice of pharmacy. Demonstration of competence in the
areas of patient care, drug information, communication, professionalism, critical thinking, and teamwork will be expected. Application of knowledge
and skills will occur in simulated pharmacy practice situations.
AR: attendance is required in practice sessions
CO: all Academic Term 11 Pharmacy courses
LC: 2
OR: practice sessions 3 hours per week; course runs over 10 weeks to
accommodate PHAR 508P
PR: PHAR 5250
5270 Pharmacotherapy V is the final course in the series that examines
the pharmacotherapeutic management of common diseases and effective
management of the patient’s drug therapy. Emphasis will be placed on
identifying drug therapy problems, establishing therapeutic outcomes, recommending pharmacological and non-pharmacological therapeutic
alternatives, developing individualized therapeutic regimens, and developing
a monitoring plan to evaluate adherence, efficacy, and safety. Topics may include
neurological, oncological, and addictions and mental health conditions.
CH: 6
CO: PHAR 5815
LC: 6
PR: PHAR 4271
5271 Advanced Pharmacotherapy expands and integrates the knowledge
and skills acquired from the Pharmacotherapy series of courses through application to complex patient scenarios. Critical thinking skills necessary for
pharmacotherapy in a variety of patient care situations will be the focus of the course.
CH: 5
CO: PHAR 5815
LC: 5
OR: course runs over 10 weeks to accommodate PHAR 508P
PR: PHAR 5270
5275 Symposium in Pharmacy is a forum for students to research, develop
and deliver formal presentations related to pharmacy practice. Students will
be expected to interpret, synthesize, and present information effectively. The
presentations will allow for application of knowledge and reflection on
content.
AR: attendance is required
CH: 2
CO: PHAR 5251
LC: 2
5301 Clinical Toxicology covers the toxicology and clinical management of
toxicity associated with common medications.
CH: 2
CO: PHAR 5401
LC: 2
UL: applicable only to the Bachelor of Science (Pharmacy) program
5302 Patient Care III focuses on pharmaceutical care considerations in
special patient populations (e.g., geriatrics, neonates, pediatrics, pregnancy
and lactation, critically ill, etc.). Implementation of pharmaceutical care in
hospital, ambulatory and community practice settings will be discussed.
CO: PHAR 5401
OR: tutorials 1 hour per week; attendance is required
UL: applicable only to the Bachelor of Science (Pharmacy) program
5401 Therapeutics III is part in a series that looks at the therapeutic
management of common diseases. Topics may include but are not restricted
to pharmacological, non-pharmacological and clinical aspects of medications and disease state discussion will centre around several key issues including:
the establishment of desired therapeutic outcomes; development of appropriate
therapeutic regimens; and the development of a monitoring plan to evaluate efficacy and safety.
CH: 6
LC: 6
OR: tutorials 2 hours per week
PR: PHAR 4402
UL: applicable only to the Bachelor of Science (Pharmacy) program
5430 Pharmacy Management II prepares students for the various roles of
management in pharmacy practice, regardless of position or practice setting.
Management principles including communications, leadership, finance,
human resources management, marketing, and promotion will be applied
through demonstrating leadership, business planning, and pharmacy service
implementation.
CH: 2
CO: PHAR 4420
UL: applicable only to the Bachelor of Science (Pharmacy) program
5506 Pharmacy Research and Evaluation III (same as the former PHAR 5501) discusses the principles of critical appraisal and provides opportunities
to apply these principles to critique and evaluate current medical literature. Students will be assigned to a tutorial group, which will
meet twice during the term to critically appraise at least two recently
published studies. Emphasis will be placed on appropriate application of
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course from the set(s) consisting of the course being described and the course(s) listed; LC = Lecture hours per week are 3 unless otherwise noted;
LH = Laboratory hours per week; OR = Other requirements of the course such as tutorials, practical sessions, or seminars; PR = Prerequisite(s);
UL = Usage limitation(s).
critical appraisal skills and group discussion of impact of study findings on clinical practice.

CH: 1
CR: the former PHAR 5501
LC: 0
OR: tutorials 1 hour per week
PR: PHAR 4505, PHAR 4810
UL: applicable only to the Bachelor of Science (Pharmacy) program

5640 Social Justice and the Pharmacist will enable students to critically analyse the role of social justice as an integral part of the practice of pharmacy. The course will include a focus on the interconnectedness of health equity with global contexts that include social class, ethnicity, gender, ability, and mental health. Critical thinking skills will be used to examine complex health and social issues.

CH: 2
LC: 2

5650 Pharmacy Skills (same as the former PHAR 5150) continues the development of the skills necessary for pharmacy practice in order to meet the educational outcomes for the fourth year of the pharmacy program. Students will continue to develop abilities in communication, professionalism, critical thinking, problem-solving, teamwork and self-directed learning. Students will build on their pharmacist care skills to meet patients’ drug-related needs in patients with multiple drug related problems. Refinement of verbal and written communication skills will be focus. Scenarios will relate to the courses of study in the fourth year and draw on material studies in earlier years of the program. Students will participate in interprofessional education (IFE) modules with students from other health related programs when such modules are available.

CO: all Academic Term 7 Pharmacy courses
CR: the former PHAR 5150
LC: 0
OR: practical sessions 3 hours per week; tutorials 1 hour per week;
UL: attendance is required

5815 Pharmacology III is the final course in the series that focuses on the pharmacological basis of the action of drugs leading to therapeutic effects, as well as adverse effects. Topics may include drugs used in the management of oncological, mental health, and neurological conditions as well as drugs of abuse.

CH: 2
CO: PHAR 5270
LC: 2
PR: PHAR 4810

5830 Applied Pharmacokinetics discusses pharmacokinetic principles of drug selection, dosing, and monitoring in the clinical setting for individualization of drug therapy.

CH: 2
LC: 2
PR: PHAR 4820

5901 Pharmaceutical Care I discusses the pharmacotherapeutic management of common diseases and effective management of patient’s drug therapy. The focus will be on identifying drug therapy problems, establishing therapeutic outcomes, recommending pharmacological and non-pharmacological therapeutic alternatives, developing individualized therapeutic regimens, and developing a monitoring plan to evaluate adherence, efficacy and safety. Emphasis will be placed on respiratory disorders and infectious diseases.

PR: PHAR 4810
UL: applicable only to the Doctor of Pharmacy for Working Professionals

5902 Pharmaceutical Care II discusses the pharmacotherapeutic management of common diseases and effective management of patient’s drug therapy. The focus will be on identifying drug therapy problems, establishing therapeutic outcomes, recommending pharmacological and non-pharmacological therapeutic alternatives, developing individualized therapeutic regimens, and developing a monitoring plan to evaluate adherence, efficacy and safety. Emphasis will be placed on disorders of the digestive system.

PR: PHAR 4810
UL: applicable only to the Doctor of Pharmacy for Working Professionals

5903 Pharmaceutical Care III discusses the pharmacotherapeutic management of common diseases and effective management of patient’s drug therapy. The focus will be on identifying drug therapy problems, establishing therapeutic outcomes, recommending pharmacological and non-pharmacological therapeutic alternatives, developing individualized therapeutic regimens, and developing a monitoring plan to evaluate adherence, efficacy and safety. Emphasis will be placed on disorders of the protective, structural, and endocrine systems.

PR: PHAR 4810
UL: applicable only to the Doctor of Pharmacy for Working Professionals

5904 Pharmaceutical Care IV discusses the pharmacotherapeutic management of common diseases and effective management of patient’s drug therapy. The focus will be on identifying drug therapy problems, establishing therapeutic outcomes, recommending pharmacological and non-pharmacological therapeutic alternatives, developing individualized therapeutic regimens, and developing a monitoring plan to evaluate adherence, efficacy and safety. Emphasis will be placed on respiratory disorders and infectious diseases.

PR: PHAR 4810
UL: applicable only to the Doctor of Pharmacy for Working Professionals

5905 Pharmaceutical Care V discusses the pharmacotherapeutic management of common diseases and effective management of patient’s drug therapy. The focus will be on identifying drug therapy problems, establishing therapeutic outcomes, recommending pharmacological and non-pharmacological therapeutic alternatives, developing individualized therapeutic regimens, and developing a monitoring plan to evaluate adherence, efficacy and safety. Emphasis will be placed on neurological disorders and mental health conditions.

PR: PHAR 4810
UL: applicable only to the Doctor of Pharmacy for Working Professionals

5920 Applied Learning II: Medication Safety and Evaluation focuses on the principles of medication safety, medication use evaluation, adverse drug events, and medication errors and incident reporting. Students will demonstrate their learning through the completion of applied learning activities at their practice sites.

PR: PHAR 4810 and at least one of PHAR 5901, 5902, 5903, 5904, 5905
UL: applicable only to the Doctor of Pharmacy for Working Professionals

605P Advanced Pharmacy Practice Experience: Direct Patient Care is a six week (320 hours) practice experience completed during the final year of the program (following Academic Term 11). Students will be expected to demonstrate leadership in the responsible provision of patient care by becoming an integral member of the healthcare team while confidently using clinical reasoning and critical thinking skills. Mentorship of junior students may be a component of this experience.

AR: attendance is required
CH: 12
PR: all Academic Term 10 & 11 courses

606P Advanced Pharmacy Practice Experience: Acute Care Hospital is an eight week (320 hours) practice experience where patient care is provided in an acute care hospital setting and is completed during the final year of the program (following Academic Term 11). Students will be expected to demonstrate leadership in the responsible provision of patient care by becoming an integral member of the healthcare team while confidently using clinical reasoning and critical thinking skills. Mentorship of junior students may be a component of this experience.

AR: attendance is required
CH: 12
PR: all Academic Term 10 & 11 courses

607P Advanced Pharmacy Practice Experience: Community Pharmacy is an eight week (320 hours) practice experience where patient care is provided in a community pharmacy setting and is completed during the final year of the program (following Academic Term 11). Students will be expected to demonstrate leadership in the responsible provision of patient care by becoming an integral member of the healthcare team while confidently using clinical reasoning and critical thinking skills. Mentorship of junior students may be a component of this experience.

AR: attendance is required
CH: 12
PR: all Academic Term 10 & 11 courses

608P Advanced Pharmacy Practice Experience: Elective is a six week (240 hours) experience completed during the final year of the program (following Academic Term 11). The experience may occur in either a direct or non-direct patient care setting. Options include patient care, research, health policy, drug information, teaching/education, advocacy, and administration. Placements may vary from year to year depending upon site and preceptor availability.

AR: attendance is required
CH: 9
PR: all Academic Term 10 & 11 courses

610P Advanced Pharmacy Practice Experience: Ambulatory Care is a six week (240 hours) practice experience completed during the final year of the program. Students will develop their medication therapy management skills and pharmaceutical care in an ambulatory care setting. Students will be expected to demonstrate leadership in the responsible provision of patient care by becoming an integral member of the healthcare team while confidently using clinical reasoning and critical thinking skills. Mentorship of junior students may be a component of this experience.

AR: attendance is required
CH: 9
PR: PHAR 6900, 6930 and at least four of PHAR 5901, 5902, 5903, 5904, 5905
UL: applicable only to the Doctor of Pharmacy for Working Professionals

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611P Advanced Pharmacy Practice Experience: Inpatient Care is a six week (240 hours) practice experience completed during the final year of the program. Students will develop the essential skills necessary to provide direct patient care in an inpatient setting. Students will be expected to demonstrate leadership in the responsible provision of patient care by becoming an integral member of the healthcare team while confidently using clinical reasoning and critical thinking skills. Mentorship of junior students may be a component of this experience.

AR: attendance is required
CH: 9
PR: PHAR 6900, 6930 and at least four of PHAR 5901, 5902, 5903, 5904, 5905
UL: applicable only to the Doctor of Pharmacy for Working Professionals

6900 Clinical Skills II is an on-campus, three-day (21 hours) introduction to the Advanced Pharmacy Practice Experience component of the program. Topics may include motivational interviewing, intraprofessional and interprofessional collaboration, documentation, and expanded scope of pharmacy practice. Students will continue to demonstrate skills in communication, physical assessment, and documentation. This course may commence beyond the semester start date.

AR: attendance is required
CH: 9
CO: PHAR 6930
PR: PHAR 4900
UL: applicable only to the Doctor of Pharmacy for Working Professionals

6930 Applied Learning III: Pharmaceutical Care and Interprofessional Collaboration focuses on the expansion of skills in physical assessment, communication, documentation, teamwork, and interprofessional collaboration through the pharmaceutical care process. Students will demonstrate their learning through the completion of applied learning activities at their practice sites.

CO: PHAR 6930
PR: PHAR 5920 and at least three of PHAR 5901, 5902, 5903, 5904, 5905
UL: applicable only to the Doctor of Pharmacy for Working Professionals