

PHARMACY PHARM. D.

Doctoral Program

The School of Pharmacy prepares students to practice in an interprofessional patient-centered environment where pharmacists are responsible for assisting patients in managing their medication regimens. Graduates of the program are taught to communicate effectively with patients and other health care practitioners, to solve problems related to drug therapy regimens, and to develop and evaluate programs to improve the health of the communities they serve.

The School of Pharmacy's mission emphasizes leadership and service to the community. Students practice leadership skills while working collaboratively with their colleagues and the faculty on problem sets, case analyses and class service projects. Through class exercises and practice experiences the pharmacy program teaches students to care for patients and communities.

The curriculum involves 36 credit hours of Advanced Pharmacy Practice Experiences (APPE) beyond the three professional years of didactic coursework. The APPEs are comprised of six different pharmacy rotations including an advanced community practice rotation, ambulatory practice rotation, institutional clinical rotation, institutional operations rotation, and two elective rotations. Each APPE rotation is six weeks long and is assigned 6-credit hours.

Students who successfully complete all curriculum requirements will be awarded a doctorate of pharmacy (Pharm.D), and will be eligible to sit for both the North American Pharmacist Licensure Examination (NAPLEX) and Multistate Pharmacy Jurisprudence Examination (MPJE) (<https://nabp.pharmacy/programs/examinations/mpje/>), developed and administered by the National Association of Boards of Pharmacy (NABP).

School Of Pharmacy Mission Statement

The D'Youville School of Pharmacy prepares students to be tomorrow's pharmacy practitioners and advances the profession through critical inquiry, research, scholarship and service.

Vision And Strategic Intent

Our first choice school of pharmacy will be recognized for excellence in pharmacy education and service to the profession and the health of their communities through collaborative practice and research.

Values And Goals

The School of Pharmacy adheres to the core values and principles of D'Youville University. In addition we bring forward the following as having particular importance to the School of Pharmacy.

- Excellence - We pursue excellence in our teaching, scholarship and practice every day.
- Professionalism is integral to our success. We care and respect others, accept responsibility for our actions, and act with integrity and honesty in our interactions. We prepare students to be professionals, not employees.
- Leadership is necessary to advance the pharmacy profession. Valuing others, integrity, self-awareness, and personal accountability are the fundamental attributes of leaders.
- Social responsibility is important to the profession and is demonstrated by contributing to the health and well being of

patients, the community, and at risk populations through advocacy, volunteerism and service.

Principles

- Student-centered learning - Our efforts are focused on empowering students to gain the requisite knowledge, skills, and attitudes needed to provide patient-centered care.
- Culturally responsive care - We recognize and honor the diversity of peoples' values and beliefs, both spiritual and secular
- Decision-making - We encourage personal and professional decision making in accordance with legal, ethical, social, economic, and professional guidelines.
- Collaboration - We foster a spirit of teamwork among patients, peers, and partners, within and across disciplines, through effective communication skills and respect for the contribution of others.
- Critical Inquiry - Faculty and students form a learning community whose members interpret, evaluate and use information discerningly from a variety of perspectives, tolerate ambiguity while understanding the complexity of many problems, issues, and topics, and transform the results of inquiry into judgments and actions.
- Culture of Assessment - Creating a culture of assessment requires us to gather data to define problems, implement solutions, and continuously improve our work. We consider alternative points of view and the implications of various courses of action before making decisions.
- Quality - We define quality practitioners as those who stand out among their peers due to their commitment to their patients, profession, and their communities.

New York State Department Of Education (NYSED)

The D'Youville University School of Pharmacy is registered for professional purposes under Subchapter A of the Regulations of the Commissioner of Education (Chapter II of Title 8 of the Official Compilation of Codes, Rules and Regulations of the state of New York); enabling all eligible doctor of pharmacy students to receive financial aid.

Accreditation Disclosure Statement

The Accreditation Council for Pharmacy Education (ACPE) (<http://www.acpe-accredit.org/>) accredits doctor of pharmacy programs offered by colleges and schools of pharmacy in the United States and selected non-US sites. For a doctor of pharmacy program offered by a new College or School of Pharmacy, ACPE accreditation generally involves three steps: Precandidate accreditation status, Candidate accreditation status, and Full accreditation status. Precandidate accreditation status denotes a developmental program that is expected to mature in accord with stated plans and within a defined time period. Precandidate accreditation status is awarded to a new program of a college or School of Pharmacy that has not yet enrolled students in the professional program and authorizes the school to admit its first class. Candidate accreditation status is awarded to a doctor of pharmacy program that has students enrolled but has not yet had a graduating class. Accreditation status is awarded to a program that has met all ACPE standards for accreditation and has graduated its first class. Graduates of a class designated as having candidate accreditation status have the same rights and privileges of those graduates from a fully accredited program. ACPE conveys its decisions to the various boards of pharmacy and makes recommendations in accord with its decisions. It should be noted, however, that decisions concerning eligibility for licensure by examination or reciprocity reside

with the respective state boards of pharmacy in accordance with their state statutes and administrative rules.

The doctor of pharmacy program of the D'Youville University School of Pharmacy was awarded accreditation status during the June 18 – 22, 2014 meeting of the ACPE board of directors based upon an on-site evaluation conducted April 8 – 10, 2014 and discussion with university and school officials.

Accreditation Status

It is expected that the accreditation status of the program will be fully disclosed. ACPE requires that all colleges and schools of pharmacy with accreditation status utilize the following language when referring to the accreditation status of the program in any publication, both in print and on the program's web site:

D'Youville University School of Pharmacy's doctor of pharmacy programs (including the 4-year in-person as well as the 3-year online and in-person pathways) are accredited through 2028 by the:

Accreditation Council for Pharmacy Education (ACEP)
190 South LaSalle Street Suite 2850
Chicago, IL 60603-3410
Phone: (312) 664-3575
Fax: (866) 228-2631
website www.acpe-accredit.org (<http://www.acpe-accredit.org>).

Course Requirements

Kindly note that the curriculum outlined below is under the auspices of the Curriculum Committee of the School of Pharmacy and may be subject to change.

Code	Title	Credits
First Professional Year: 1st Semester		
PMD-601	Biochemical Principles I	3
PMD-603	Anatomy Physiology Pathophysiology I	4
PMD-605	Pharmacokinetics	3
PMD-607	Prof of Pharmacy & Health Care Systems	3
PMD-609	Pharmacodynamics	2
PMD-611	Prof Dev of Student Pharmacist I	2
PMD-617	P1 IPPE Community	2
PMD-627	Interprofessional Collaborative Practice I: Foundations of Interprofessional Practice	0.5
Total Credits		19.5
First Professional Year: 2nd Semester		
PMD-604	Anatomy Physiology Pathophysiology II	4
PMD-606	Medicinal Chemistry	3
PMD-608	Pharmaceutics	3
PMD-610	Hlth Comm Diversity & Bioethics Communications/ Diversity/Bioethics	2
PMD-612	Prof Dev of Student Pharmacist II - Patient Assessment	2
PMD-624	Self-Care	3
PMD-626	Introductory Pharmacy Calculations	2
PMD-628	Interprofessional Collaborative Practice II: Foundations of Interprofessional Practice	0.5
Total Credits		19.5
Second Professional Year: 3rd Semester		

PMD-703	Pharmacotherapeutics I	4
PMD-705	Pharmacotherapeutics II	4
PMD-711	Prof Dev of Student Pharmacist III	1
PMD-713	Pharmacogenomics	3
PMD-714	Pharmacy Management	3
PMD-717	P2 IPPE Community	2
PMD-727	Interprofessional Collaborative Practice III: Building Interprofessional Skills	0.5
Total Credits		17.5
Second Professional Year: 4th Semester		
PMD-702	Medical Microbiology & Immunology	3
PMD-704	Pharmacotherapeutics III	4
PMD-706	Pharmacotherapeutics IV	4
PMD-708	Evidence-Based Medicine I	2
PMD-709	Integrated Compounding & Practice	3
PMD-712	Professional Development of a Student Pharmacist IV	1
PMD-728	Interprofessional Collaborative Practice IV: Building Interprofessional Skills	0.5
Total Credits		17.5
Third Professional Year: 5th Semester		
ELE-XXX	²	2
PMD-801	U.S. Pharmacy Law	2
PMD-803	Infectious Disease V	4
PMD-805	Pharm Gastrointestinal V I	4
PMD-811	Prof Dev of Student Pharmacist V	1
PMD-813	Evidence-Based Medicine II	2
PMD-817	P3 Institutional IPPE	3
PMD-827	Interprofessional Collaborative Practice V: Advanced Interprofessional Practice	0.5
Total Credits		18.5
Third Professional Year: 6th Semester		
ELE-XXX	²	4
PMD-804	Pharmacotherapeutics VII	4
PMD-808	Pharmacotherapeutics VIII	4
PMD-810	Population Based Health Care	2
PMD-812	Professional Development of a Student Pharmacist IV - Gateway to Clerkship	1
PMD-814	Evidence-Based Medicine III	2
PMD-828	Interprofessional Collaborative Practice VI: Advanced Interprofessional Practice	0.5
PMD-877	MTM IPPE ³	1
PMD-911	Pharmacy Board Exam Preparation & Practice	0
Total Credits		18.5
Fourth Professional Year: 7th & 8th Semesters¹		
PMD-901	Advanced Community Pharmacy	6
PMD-902	Ambulatory Care Rotation	6
PMD-903	Institutional Clinical Rotation	6
PMD-904	Institutional Operations Rotation	6
PMD-905	APPE Elective A	6
PMD-906	APPE Elective B	6

Total Credits	36
Total Credits	147

¹ Advanced Practice Pharmacy Experiences (APPEs) cannot be started until after all previous didactic and experiential course work is completed. APPEs will consist of 6 six-week rotations. Each rotation is worth 6-credit hours and requires 240 clock hours, for a total of 1440 clock hours.

1. (1) Advanced Community Rotation
2. (1) Ambulatory Rotation
3. (1) Institutional Clinical Rotation
4. (1) Institutional Operations Rotation
5. (1) Patient Care Elective
6. (1) General Elective

² Students are required to complete a total of six (6) credit hours of didactic courses. These elective must be of courses pre-approved by School of Pharmacy Curriculum Committee, regardless if offered by the School of Pharmacy, D'Youville University, and/or an external institution.

³ Half of the class may complete the MTM IPPE requirement during the first semester of their P3 year while the other half will complete it during the second semester of the P3 year.

Policies For Promotion And Retention Of All Students

- Sequence for Licensure** - In addition to the successful completion of coursework, including IPPEs and APPEs, all students must pass the NAPLEX and two additional parts on law (MPJE). This program is designed consistently with licensure requirements and the professional standards and guidelines established by the ACPE.
- Academic Standing** - Each student must maintain a cumulative quality point average (QPA) of 2.0 on a 4.0 scale. A student whose cumulative QPA falls below 2.0 will be placed on academic probation. The Academic Performance and Integrity Committee may require that students perform certain activities aimed at aiding their academic standing such as meeting regularly with their academic advisors, developing a career plan and seeking tutorial assistance through the Learning Center and DYUSOP. The students must raise their QPA above 2.0 prior to the start of the next professional year or will be dismissed on academic grounds by the Committee.
- For Academic Progression** - The minimum grade for passing a D'Youville School of Pharmacy course is a C-. A student may only receive two grades of D+ or lower in an academic year and a total of three during their academic career in the School of Pharmacy. A student who receives more than two grades of D+ or lower in an academic year will be dismissed from the program. The only exception to this policy pertains to the Pharmacotherapeutics course sequence. A student who receives two failing grades (D+ or lower) in any of the Pharmacotherapeutic course sequence will be dismissed from the program.
- Remediation** - A grade of F in a course is not subject to remediation. A student who receives a grade of D+ or lower or an unsatisfactory grade (U) must repeat the course unless he or she has been dismissed. Grades of D-, D, and D+ will be remediated as a compressed course format in the summer session immediately following the academic year (for the 4-year program) or in the allotted three-week period at the end of each even-numbered trimester (3-year online pathway) in which the unsatisfactory grade(s) was received. Remediation may occur prior to the summer session (or during the trimester) only by special arrangement between the course coordinator and student with the approval of the Academic Performance and Integrity Committee. A student may only remediate two courses in an academic year. Remediating students will be required to sign a contract detailing the conditions of their remediation and faculty will create a remediation syllabus. The Academic Performance and Integrity Committee will ultimately approve all remediation plans. Students who successfully remediate will receive a final grade of "S" in the remediation course to allow for progression, but their original grade will remain on their transcripts. Students who do not successfully remediate will be dismissed from the program. *Note: exceptions to this remediation policy may only be made by the Academic Performance and Integrity Committee on a case-by-case basis.*
- Incomplete Grades** - Incomplete (I) grades are issued when the instructor is not prepared to give a final mark for the semester, either because of student illness or a justifiable delay in the completion of course requirements. Incomplete grades are not issued to students whose performance prior to illness was deficient or who were unable to keep up with the course requirements. A failing grade (F) will be issued if the work is not completed before the end of the eighth week of the semester following an incomplete grade. With approval from the cooperating faculty member and the assistant dean of student affairs, one eight week extension may be granted. In order to complete the requirements for all IPPE and APPE rotations, students must submit assessment forms. Those who fail to submit assessment forms will receive an incomplete grade and their progress to the next rotation may be delayed until the documentation is submitted. If a student fails to pass his or her assigned rotations in the experiential program, the student's performance will be evaluated by the director of experiential education.
- Course Withdrawal** - A student may withdraw from a course(s) only after permission has been obtained from the course instructor or coordinator and a withdrawal request is processed through the office of the dean in accordance with the time period specified by D'Youville University. A withdrawal may only be granted if the student has a passing grade, and is requesting it for non-academic reasons. Withdrawal from a course(s) will not be approved solely on the basis of poor performance in the course(s), nor may a student continue to attend classes once a withdrawal has been granted.
- Academic Resignation** - A student may resign from the program at any time prior to two weeks before the beginning of the final examinations for the term. Students who wish to resign must officially communicate this in writing to the assistant dean of faculty and student affairs. Resignation constitutes withdrawal from all courses being taken. A student who has resigned from the program must reapply as a new applicant to the program.
- Leave of Absence** - A student who wishes to interrupt his/her studies through a leave of absence may do so only up to four individual or consecutive semesters. In order to obtain permission for a leave of absence, students must complete a request form and submit the form to the Office of the Registrar. Ordinarily, a student may not request a leave of absence after the tenth week of the semester. Special consideration is given for illness or other extenuating circumstances. In the event that a student does not return at the time stipulated, the leave automatically becomes a withdrawal. The student must then apply as a new applicant to return to the School of Pharmacy.

9. **Appeal Process** - A student may appeal the Academic Performance and Integrity Committee's dismissal decision within five (5) working days from receipt of the dismissal notification through a formal written appeal to the Chairperson of the Academic Performance and Integrity Committee describing any extenuating circumstances that limited academic performance. The appeal will be reviewed by the committee. If the appeal is accepted by the committee, the student may be reinstated, but must satisfy all the conditions outlined in the committee's decision. If the student's appeal is denied, the student may appeal that decision within five (5) working days to the Dean of the School of Pharmacy. The Dean's decision will be final.
10. **Regulations for Readmitted Students** - A readmitted student must maintain a cumulative QPA of 2.0 or greater, with no failing grade (D+ or lower and/or U) to continue in the program. A readmitted student will be evaluated at the end of each academic term. Failure to meet requirements for continuing in the program will result in permanent dismissal.

Transferring Credits

Due to the highly integrated nature of the didactic and experiential components of the curriculum, the School of Pharmacy considers requests for the transfer of credits only on an individual basis. Credits accepted for transfer must be awarded from an ACPE accredited school of pharmacy. Only credits recorded on an official transcript of the issuing institution are considered for transfer. Credits accepted for transfer must be determined to be substantially equivalent to courses offered by the D'Youville University School of Pharmacy in their content and quality. Students must submit a letter from their previous school of pharmacy attesting to their "good standing" at their institution. Credits accepted for transfer must have been awarded within three years of the date of admission. The School of Pharmacy may, at its option, accept older credits if the entering student holds an earned doctorate in the pharmaceutical sciences.

Disclaimer

Due to the continuing development of policies and curriculum for the School of Pharmacy at the printing of this catalog; the School of Pharmacy reserves the right to change and enforce said policies and curriculum post publication of this catalog. Students should contact the office of the dean for the most up to date information concerning the program and its policies.

Application Requirements

The School of Pharmacy participates in PharmCAS, the Pharmacy College Admission Service. Prospective applicants should complete the PharmCAS application by submitting the following information to PharmCAS:

1. PCAT Not Required
2. Official transcripts from ALL colleges previously attended
3. Two Letters of Reference, at least one Letter of Reference must be from an academic professor; the other letter may be from an employer, supervisor, or a faculty or health care advisor.
4. Non-US citizens, who have attended a foreign (non-English speaking) institute for their college coursework, must take the TOEFL and TSE and have the results reported to PharmCAS
5. All foreign transcripts must be verified through PharmCAS, World Education Services (WES), Educational Credential Evaluators (ECE), or Josef Silny & Associates

6. In addition to the PharmCAS application, all students admitted into the professional program are required to meet the following criteria and complete a minimum of 61 credit hours that include the following:

Pre-Pharmacy Pre-Requisite Courses

Fall

Code	Title	Credits
BIO-101	Introductory Biology I	4
BIO-101L	Intro Bio Lab I	0
CHE-101	General Chemistry I	3
CHE-101L	General Chemistry Laboratory	1
ENG-112	Humanities Seminar	3
MAT-125	Calculus I	4
Total Credits		15

Spring

Code	Title	Credits
BIO-102	Introductory Biology II	4
BIO-102L	Intro Bio Lab II	0
CHE-102	General Chemistry II	3
CHE-102L	General Chemistry Laboratory II	1
ENG-XXX	English, Writing or Literature Elective of Choice	3
One Course	Social Science or Humanities	3
Total Credits		14

Fall

Code	Title	Credits
One course	Human Biomedical Science with Lab**	4
CHE-219	Organic Chemistry	3
CHE-219L	Organic Chemistry Lab	1
MAT-123	Introduction to Applied Statistics	4
PHY-101	General Physics I	3
PHY-101L	Gen Physics Lab I	1
Total Credits		16

Spring

Code	Title	Credits
CHE-220	Organic Chemistry II	3
CHE-220L	Organic Chemistry II Lab	1
COM-201	Public Speaking	3
ECO-201	Macroeconomics	3
Two courses	Social Science or Humanities***	6
Total Credits		16

** Two 200-level or higher Human Biomedical Science courses without labs can be substituted for a single Human Biomedical Science with Lab. The Biomedical Science courses that are acceptable include Microbiology, Anatomy, Physiology, Cell Biology, Molecular Biology, Genetics, and/or Pharmacology. Microbiology or Anatomy and Physiology are recommended.

*** Acceptable Social Sciences are Sociology, Psychology, History or Political Science. Acceptable Humanities are Ethics, Philosophy, Fine Arts, Literature, Religious Studies, and Foreign Languages.

- a. Two 200-level or higher Human Biomedical science courses without labs can be substituted for a single Human Biomedical Science with Lab. The Biomedical Science courses that are acceptable include Microbiology, Anatomy, Physiology, Cell Biology, Molecular Biology, Genetics, and Pharmacology. However, Microbiology or Anatomy and Physiology are recommended.
 - b. Acceptable Social Sciences are Sociology, Psychology, History or Political Science.
 - c. Acceptable Humanities are Ethics, Philosophy, Fine Arts, Literature, Religious Studies and Foreign Language.
 - d. All pre-requisite coursework must be completed with a grade of "C" (2.0/4.0) or better.
 - e. Science and Math courses should be current, completed no more than five years prior to enrollment.
 - f. All prerequisite Math and Science courses must be equivalent in scope and rigor to those required for Math, Chemistry and Biology majors at D'Youville.
 - g. All students are expected to be proficient in the implementation of computer operating systems, software applications for word processing, statistical analysis, database management, presentations, e-mail, and the use of online databases.
 - h. All questions concerning prerequisite requirements or course equivalents should be directed to the Office of the Dean.
7. Selected applicants will be invited for an interview. The interview process employs a series of multiple mini-interviews to assess non-cognitive skills important to rendering patient-centered care. The School of Pharmacy's core values (excellence, lifelong learning, cultural diversity, professionalism, leadership, social responsibility, critical inquiry and collaboration) are the domains evaluated by the mini-interviews.