QUEEN'S UNIVERSITY

APPLICATION REQUIREMENTS FOR A GRADUATE EDUCATION IN PHARMACY



How to Use This Resource

Greetings!

Welcome to the Professional Program Prerequisite Project resource for Pharmacy. We are a team of five students in the Bachelor of Health Science program who set out to research and compile application requirements for all health-related graduate programs across Canada.

As undergraduate students who are pre-med and pre-dent ourselves, we know how overwhelming and frustrating it can be to research application requirements for so many graduate programs, especially when the vast amount of information changes from year to year. Therefore, we did the hard work of doing the research for you, so you don't have to! You can treat this resource as your one-stop shop and launchpad for your graduate school application process.

This is the resource we wish we had when we were applying to graduate schools!

One thing we think you're going to find very valuable from this resource is the information about which Queen's Health Sciences and Arts and Sciences courses satisfy the prerequisite requirement for these schools. This is a unique and exclusive perk for our Queen's students.

In this document, you will find up-to-date, accurate information for the various Canadian graduate programs, last updated (January $3^{\rm rd}$, 2024). To navigate through the document, you can simply Ctrl + F or Command + F for keywords to find what you're looking for.

We are still in the development stages of the project, and we welcome collaboration from Queen's students to help make this project the best it can be. If you have any proposed edits or any changes you'd like to make, please fill out our contact form. We hope you find this resource helpful. Happy applying!

Sincerely,

The 4P Team



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Degree Type	PharmD – Entry to Practice Doctor of Pharmacy
Admissions Rate	Total Seats: 130
Program Information	4-year Full-time Undergraduate Program
Tuition	Annual Cost: \$23,500.97 Total Cost: \$94,003.88
Degree/Academic Requirements	 Credit Hours 60 Credit Units Completion Deadline June 15th
Full-Course Load Requirement (Undergrad)	30 CU preferred to be taken during last academic year
GPA	Minimum: 3.1/4.0 Competitive: In Province: 3.5/4.0 Out of Province: 3.7/4.0 Average: 3.3/4.0
GPA Calculations	 Cumulative GPA (Overall) From applicant's most recent 2 years of full course load Foundational GPA Biological science prerequisite courses including Cell Biology, Biochemistry, Microbiology, and Human Physiology Highest Credit Year GPA Applicant's highest credit weight year (Fall/Winter only)
Spring/Summer Term Courses Included in GPA Calculations	YES: excluding summer courses taken of application year
Subject Prerequisites	Required: 1. English: 6 CU (up to 3 CU of Writing Studies) 2. General Chemistry: 6 CU 3. Organic Chemistry: 6 CU 4. Math (calculus or algebra): 3 CU 5. Statistics: 3 CU 6. Cell Biology: 3 CU 7. Biochemistry: 3 CU 8. Microbiology: 3 CU Must have minimum C- in all required courses
	Click <u>here</u> for more information on subject prerequisites.
Queen's Course Equivalents	Required: 1. ENGL 100 2. CHEM 112/113/114 3. CHEM 281/285 4. MATH 121 5. HSCI 190 or STAM 200 6. BIO 102/103

	7. BCHM 270/310/313
	8. MICR 270/271
	Please contact U of A to confirm course meets prerequisite
	requirements.
Online Courses Accepted	YES: any degree credit courses offered by recognized university
PCAT	Not Required
Other Required Tests	NONE
Application Requirements	 Letter of Intent Career goals Knowledge of profession Employment/volunteer experience Personal attributes Pharmacist consultation Form Speak to a practicing pharmacist about their profession Must have no conflict of interest with pharmacist Pharmacist must fill out form Must outline applicant's knowledge of profession Essential Skills Declaration Form Acknowledge responsibilities
Application Deadline	March 1 st
Interview Schedule	1. Web-based InterviewsEnd of April
Contact Information	Email: phstud@ualberta.ca Phone: (780) 492-3362
Additional Information	Admission Requirements FAQ



UNIVERSITY OF BRITISH COLUMBIA

Degree Type	PharmD – Entry to Practice Doctor of Pharmacy
Admissions Rate	 Total Seats: 224 15% of interview spots are for out of province applicants
Program Information	4-year Full-time Undergraduate Program
Tuition	Annual Cost: \$19,929.84 Total Cost: \$79,719.36
Degree/Academic Requirements	 Credit Hours 60 Credit Units Completion Deadline April 30th
Full-Course Load Requirement (Undergrad)	NO
GPA	Minimum: 2.5/4.0 - 65% (70% in last 30 credits completed) Competitive: 80% Average: Not available
GPA Calculations	 Core Average All attempts at first-year prerequisites Last 30-Credit Average Most recent 30 completed credits
Spring/Summer Term Courses Included in GPA Calculations	YES: excluding summer courses taken in application year
Subject Prerequisites	Required:
	 Biology (1st year, with labs): 6 CU Chemistry (1st year, with labs): 6 CU English (any level): 6 CU Calculus (1st year, differential & integral): 6 CU Cell Biology/Genetics (2nd year): 3 CU Intro Biochemistry (2nd year): 3 CU Organic Chemistry (2nd year, with labs): 6 CU Microbiology (2nd year): 3 CU Statistics: 3 CU Social Sciences/Humanities: 6 CU
	Click <u>here</u> for more information on subject prerequisites.
Queen's Course Equivalents	Required: 1. BIOL 102/103 2. CHEM 112/113/114 3. ENGL 100 4. MATH 121 5. BIOL 110 or PHGY 170 6. BCHM 270/310/313 7. CHEM 281/285 8. MICR 270/271

	10. GLPH171/271 Please contact U of BC to confirm course meets prerequisite requirements.
Online Courses Accepted	YES: any degree credit courses offered by recognized university
PCAT	Not Required
Other Required Tests	NONE
Application Requirements	NONE
Application Deadline	December 1 st
Interview Schedule	 Pre-Recorded Interview Questions and Scenarios (PIQS) Verbally respond to interview questions, scenarios, and provide a written response Invitations sent out early April
Contact Information	Email: undergrad.pharm@ubc.ca Phone: (604) 827-3485
Additional Information	Admission Requirements FAQ Contact Us

Professional Program Prerequisite Project



Degree Type	PharmD –Pharmacy
Admissions Rate	Total seats:
	Maximum 10% of class can be non-maritime students
Program Information	4-year Full-time Undergraduate Program
Tuition	Annual Cost: \$24,031.29
	Total Cost: \$96,125.16
Degree/Academic	1. Credit Hours
Requirements	Minimum 1 year of undergraduate study + requirements
	2. Completion Deadline
	Unknown
Full-Course Load	YES
Requirement (Undergrad)	
GPA	Minimum: 70% in all required courses
	Competitive: Not available
	Average: Not available
GPA Calculations	1. Cumulative Average
	If currently enrolled in courses, assessment of performance
	based on fall GPA
	All transcripts due February 1 st
Spring/Summer Term	YES
Courses Included in GPA	
Calculations	
Subject Prerequisites	Required:
	1. Intro Chem: 6 CU 2. Intro Biology: 6 CU
	2. Intro Biology: 6 CU 3. Social Science: 6 CU
	4. Intro Calculus: 3 CU
	5. Intro Statistics: 3 CU
	6. Intro English: 6 CU
	7. Human Anatomy: 3 CU
	8. Microbiology: 3 CU
	9. Organic Chemistry: 6 CU
	10. Biochemistry: 3 CU
	11. Genetics: 3 CU
	12. Physiology: 6 CU
	13. Elective: 6 CU
	Click <u>here</u> for more information on subject prerequisites.

Queen's Course	Required:
Equivalents	1. CHEM 112
	2. BIOL 102/103
	3. GLPH 171/271
	4. MATH 121
	5. HSCI 190 or STAM 200
	6. ENGL 100
	7. ANAT 100
	8. MICR 220
	9. CHEM 281/285
	10. BCHM 310/313
	11. BIOL 205
	12. PHGY 170/215/216
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	Please contact U of D to confirm course meets prerequisite
	requirements.
Online Courses Accepted	Unknown
PCAT	Not Required
Other Required Tests	NONE
Application Requirements	1. Pharmacy Supplemental Form
	Terms and Conditions Form
Application Deadline	February 1 st
Interview Schedule	1. Virtual Interview
	April 29 th
Contact Information	Email: pharmadm@dal.ca
	Phone : (902)-494-3824
Additional Information	Admission Requirements



Degree Type	PharmD – Doctor of Pharmacy
Admission Rate	 Total seats: 55 Up to 10 spots for Canadian Indigenous Applicant Pool Up to 5 spots for out-of-province candidates
Program Information	4-year Full-time Undergraduate Program
Tuition	Annual Cost: \$21,600.00 Total Cost: \$86,400.00
Degree/Academic Requirements	 Credit Hours 48 credit units No Grade Below "C" Completion Deadline April 30th
Full-Course Load Requirement (Undergrad)	NO; however, 24 credits must be taken in at least 1 academic year
GPA	Minimum: 3.0/4.0 Competitive: Not available Average: Not available
GPA Calculations	 Adjusted Grade Point Average (AGPA) 0.55 x Core Course GPA + 0.45 x Cumulative Elective GPA Core Course Average Average for 12 required prerequisite core courses Cumulative Other GPA All courses excluding core courses completed at university degree level in past 10 years, including all attempts
Spring/Summer Term Courses Included in GPA Calculations	YES
Subject Prerequisites	Required: 1. Intro to Chemistry (first year, with lab): 6 CU 2. Organic Chemistry (second year): 3 CU 3. Biochemistry (second year): 3 CU 4. Biology (first year, with lab): 6 CU 5. Physiology: 6 CU 6. Microbiology (first year, with lab): 3 CU 7. Mathematics: 3 CU 8. Statistics: 3 CU 9. Social Sciences/Humanities: 12 CU
	Click <u>here</u> for more information on subject prerequisites.

Queen's Course	Required:
Equivalents	1. CHEM 112/113/114
	2. CHEM 281/285
	3. BCHM 270/310/313
	4. BIOL 102/103
	5. PHGY 215/216
	6. MICR 270/271
	7. MATH 121
	8. BIOL 243
	9. GLPH 171/271/385
	Please contact U of M to confirm course meets prerequisite requirements.
Online Courses Accepted	YES
PCAT	Not Required
Other Required Tests	CASPer
	Minimum Score: Varies annually based on applicant pool
Application Requirements	1. Self-Declaration and Essential Skills Forms
	Completed as part of online application
	2. Academic Self-Declaration
	Declares current or previous: academic suspensions,
	disciplinary action, professional misconduct, record of criminal
	conviction, record on the Child Abuse Registry, record on the
	Adult Abuse Registry
Application Deadline	March 1 st
nterview Schedule	N/A
Contact Information	Email: admissions.pharmacy@umanitoba.ca
	Phone : (204) 474-6308
Additional Information	Admission Requirements Contact Us



MEMORIAL UNIVERSITY

Program Information Tuition Degree/Academic Requirements Full-Course Load	Total seats: 40 Out of Province: 5 5-year Full-time Undergraduate Program Annual Cost: \$13,000.00 Total Cost: \$68,181.00 1. Credit Hours • Completion of 10 prerequisite courses 2. Completion Deadline • May 1 st
Tuition Degree/Academic Requirements Full-Course Load	Annual Cost: \$13,000.00 Total Cost: \$68,181.00 1. Credit Hours • Completion of 10 prerequisite courses 2. Completion Deadline
Degree/Academic Requirements Full-Course Load	Total Cost: \$68,181.00 1. Credit Hours • Completion of 10 prerequisite courses 2. Completion Deadline
Requirements Full-Course Load	 Completion of 10 prerequisite courses Completion Deadline
Requirement (Undergrad)	Full Course Load Required for 1 Semester
GIA .	Minimum: 70% Competitive: Not available Average: 84%
GPA Calculations	 Academic Score Pre-requisite average: average of 10 required pre-requisite courses Partial cumulative average: average of 20 (or less than 20 courses) most recently completed post-secondary courses Sum of above 2 averages divided by 2
Spring/Summer Term Courses Included in GPA Calculations	YES: excluding summer courses taken in application year
	Required: 1. Biology: 6 CU 2. Chemistry: 6 CU 3. English: 6 CU 4. Math: 6 CU 5. Physics: 6 CU
	Click <u>here</u> for more information on subject prerequisites.
Equivalents	Required: 1. BIOL 102/103 2. CHEM 112/113/114 3. ENGL 100 4. MATH 121 5. PHYS 117/118 Please contact U of M to confirm course meets prerequisite requirements.
	Unknown
PCAT	Not Required

Other Required Tests	<u>CASPer</u>Minimum Score: Varies annually based on applicant pool
Application Requirements	NONE
Application Deadline	February 1 st
Interview Schedule	Mid May
Contact Information	Email: pharmadmissions@mun.ca Phone: (709) 864-2077
Additional Information	Admission Requirements FAQ





University of Saskatchewan

Degree Type	PharmD – Entry to Practice Doctor of Pharmacy
Admissions rate	Total seats: 90
	Out of province: 14
Program Information	4-year Full-time Undergraduate Program
Tuition	Annual Cost: \$19,895.00
	Total Cost: \$79,580.00
Degree/Academic	1. Credit Hours
Requirements	60 Credit Units
	2. Completion Deadline
	April 30 th
Full-Course Load	NO;
Requirement (Undergrad)	However, 24 credits must be taken in at least 1 academic year
GPA	Minimum: 70%
	Competitive : 71.37%-92.38%
	Average: Above 75%
GPA Calculations	1. Cumulative Average
	All post-secondary courses taken excluding graduate-level
	courses
	2. Recent Average
	Most recent 60 credit units
	3. Admission Average
	60% Cumulative Average + 40% Recent Average
Spring/Summer Term	YES
Courses Included in GPA	II Protoccional Program
Calculations	<u> </u>
Subject Prerequisites	Required:
	1. Biology: 6 CU
	2. General Chemistry: 3 CU
	3. Organic Chemistry: 6 CU
	4. English: 6 CU
	5. Biochemistry: 3 CU Biomolecules; 3 CU Metabolism
	6. Human Physiology: 6 CU
	7. Calculus: 3 CU
	8. Statistics: 3 CU
	9. Microbiology: 3 CU
	9. Microbiology: 3 CU 10. Nutrition: 3 CU

Queen's Course	Required:
Equivalents	1. BIOL 102/103
	2. CHEM 112
	3. CHEM 281/282
	4. ENGL 100
	5. BCHM 315/316
	6. PHGY 170/215/216
	7. MATH 121
	8. BIOL 243
	9. MICR 270/271
	10. HLTH 230
	Please contact U of S to confirm course meets prerequisite
	requirements.
Online Courses Accepted	YES
PCAT	Not Required
Other Required Tests	CASPer
	Minimum Score: Varies annually based on applicant pool
Application Requirements	NONE
Application Deadline	February 15 th
Interview Schedule	1. Personal Interview Video
	Mid-January to February 28 th
Contact Information	Email: pharmacy-nutrition@usask.ca
	Phone : (306) 966-6327
Additional Information	Admission Requirements
	FAQ
Additional information	



University of Toronto

Degree Type	PharmD – Doctor of pharmacy
Admissions Rate	Total Seats: 240
Program Information	4-year Full-time Undergraduate Program
Tuition	Annual Cost: \$18,060.00 Total Cost: \$72,240.00
Degree/Academic Requirements	 Credit Hours Minimum 48 Credit Units of Bachelor's Degree Completion Deadline April 30th
Full-Course Load Requirement (Undergrad)	NO; however, strongly preferred
GPA	Minimum: 70% Competitive: 80-84% Average: N/A
GPA Calculations	Cumulative Average Includes all university courses taken by applicants
Spring/Summer Term Courses Included in GPA Calculations	YES: Must be taken at least 1 year before application
Subject Prerequisites	Required: 1. Biology: 6 CU 2. Chemistry: min 9 CU 3. Mathematics: 6 CU (3 CU of calculus) 4. Social Sciences/ Humanities: 6 CU Click here for more information on subject prerequisites
Queen's Course Equivalents	Required: 1. BIOL 102/103 2. CHEM 112/113/114/281 3. MATH 120 or 121; MATH 123/124 4. GLPH 171/271/281 Please contact U of T to confirm course meets prerequisite requirements.
Online Courses Accepted	YES: any degree credit courses offered by a recognized university
PCAT	Not Required
Other Required Tests	 CASPer Minimum Score: Varies annually based on applicant pool
Application Requirements	 Online Individual Assessment Video-recorded questions and responses Written/typed responses

	Multiple-choice responses
Application Deadline	January 5 th
Interview Schedule	March 24, 2023Invitations released early March
Contact Information	Email: adm.phm@utoronto.ca Phone: (416) 978-3967
Additional Information	Admission Requirements FAQ Contact Us





UNIVERSITY OF WATERLOO

Degree Type	PharmD – Doctor of Pharmacy
Admissions Rate	Total Seats: 120
Program Information	4-year Full-time Undergraduate Program
Tuition	Annual Cost: \$17,030.00 Total Cost: \$68,120.00
Degree/Academic Requirements	 Credit Hours Minimum 48 Credit Units of Bachelor's Degree Completion Deadline April 30th
Full-Course Load Requirement (Undergrad)	NO; strongly recommended
GPA	Minimum: 75% Competitive: Not available (Stress admission based off complete application)
GPA Calculations	1. Cumulative GPAIncludes all university courses taken by applicants
Spring/Summer Term Courses Included in GPA Calculations	YES
Subject Prerequisites	Required: 1. Cellular Biology: 3 CU 2. Genetics: 3 CU 3. Microbiology: 3 CU 4. Introductory Chemistry: 6 CU 5. Biochemistry: 3 CU 6. Organic Chemistry 1: 3 CU 7. Chemical Reaction LAB: 3 CU 8. Any Biology LAB: 3 CU 9. Any Chemistry/Biology LAB: 3 CU 10. Calculus: 3 CU 11. Statistics: 3 CU 12. English: 3 CU 13. Social Sciences/Humanities: 6 CU Click here for more information on subject prerequisites
	Recommended: 1. Human Anatomy 2. Human Physiology 3. Organic Chemistry 2 4. Introductory Physics 5. Communication/Leadership Courses

Queen's Course	Required:
Equivalents	1. BIOL 102/BIOL 103 or PHGY 170
	2. BIOL 205 or BCHM 370
	3. MICR 271/320
	4. CHEM 112/113/114
	5. BCHM 270/310/313
	6. CHEM 281
	7. CHEM 112 Lab
	8. BIO 102 Lab
	9. Any chem with lab
	10. MATH 121
	11. HSCI 190 or STAM 200
	12. ENGL 100
	13. GLPH 171/271/281
	Recommended:
	1. ANAT 100
	2. PHGY 170/215/216
	3. CHEM 285
	4. PHYS 117/118
	Please contact U of W to confirm course meets prerequisite
	requirements.
Online Courses Accepted	YES; however, in-person lab courses preferred
PCAT	Not Required
Other Required Tests	CASPer
	Minimum Score: Varies annually based on applicant pool
	Must include Snapshot
Application Requirements	1. Admissions Information Form (AIF)
	Personal qualities
	Extracurricular accomplishments (200 h pharm experience)
	Career motivation
	2. References
	Filled out by healthcare professional
	3. Fundamental Skills Assessment
. II II B III	Upon interview invitation
Application Deadline	January 8 th
Interview Schedule	1. Interview Invitations
	• April 10 th
	2. Virtual Interview Weekend
	• May 3 rd – May 5 th
Contact Information	Email: kaitlin.bynkoski@uwaterloo.ca
	Phone : (519) 888-4416
Additional Information	Admission Requirements
	FAQ Contact Us

GLOSSARY

CASPer:

An online, open-response computerized situational judgment test composed of 12 sections. Each section contains a video-based or written scenario and three open-ended questions. Test takers have five minutes to respond to all three questions and 60-90 minutes to complete the entire test (optional 10-minute break). The test assesses skills like collaboration, communication, empathy, equity, ethics, motivation, problem solving, professionalism, resilience, and self-awareness.

Credit Hours

Measured in credit units.

Credit Units (CU)

A credit unit is given to a student upon completion of a course of study. At Queen's, a one semester course yields 3 CU, while a two semester, or full-year course yields 6 CU.

Cumulative GPA (cGPA)

An average of averages, combining all semester GPAs into a single, overall GPA. Resource: Cumulative GPA Calculator

Full Course Load

A full course load is defined as 5 courses or the equivalent of 15 CU taken for one semester, and 10 courses, or 30 CU, taken for one full year of study.

PCAT: (Overview)

The PCAT is constructed specifically for use by pharmacy colleges for admission purposes. The design and content of the PCAT are determined by the types of abilities, aptitudes, and skills deemed essential by pharmacy colleges and by research concerning the kinds of tests that most accurately predict success in science-oriented courses.

- Writing (30 minutes)
- Biological Processes (95 minutes)
- Chemical Processes (50 minutes)
- Critical Reading (50 minutes)
- Quantitative Reasoning (50 minutes)
- o Total Test (220 minutes): 192 multiple-choice items, 1 writing prompt

Modified Personal Interview

A series of semi-structured and open-ended brief interviews with a one-on-one interaction with a single interviewer. The questions are asked in a similar style to a panel interview, but the format more closely aligns with a multiple mini-interview. The interviewer is free to ask unprompted questions. Each "interview station" focuses on one of the following categories:

- o Getting to know the applicant and their achievements
- Assessing an applicant's ability to evaluate an ethical dilemma
- Applicants engage in self-reflection about past experiences

Multiple Mini Interview

A series of short interview stations in which the candidate is asked a question or given scenario before entering a room. The candidate has a limited time to both prepare their answer and deliver the answer to the interviewer. The number of stations vary. Candidates are assessed on non-cognitive qualities such as cultural sensitivity, maturity, teamwork, empathy, reliability, and communication skills.

Panel Interview

Typical interview style with multiple interviewers and multiple questions.

Weighted GPA (wGPA)

- A weighted GPA is calculated after adding extra points for any honors or Advanced Placement courses. For example: a letter grade of "A" in courses such as these would receive 5 points rather than 4, while a letter grade of "B" would receive 4 points rather than 3. In this calculation the overall GPA can exceed 4.0.