

S.O.S. PRESENTS:

Pharmacy School Seminar



Who Are We

- Tiffany Huynh
 - 4th Year Science Student
 - SOS Peer Advisor and Mentor
 - Has written the PCAT
- Ella Pesah
 - 3rd Year Biology Major
 - SOS Peer Advisor and Student Ambassador Coordinator

Agenda

- Canadian Pharmacy Schools
- PCAT
- Focus on requirements for Ontario schools:
 - University of Waterloo
 - University of Toronto

Canadian Pharmacy Schools

- **Newfoundland**

- Memorial University of Newfoundland

- **Nova Scotia**

- Dalhousie University

- **Quebec**

- Université de Montréal
- Université Laval

- **Ontario**

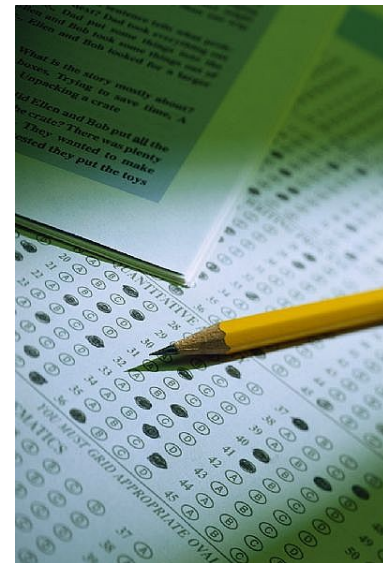
- University of Toronto (PCAT)
- University of Waterloo

Canadian Pharmacy Schools

- **Manitoba**
 - University of Manitoba
- **Saskatchewan**
 - University of Saskatchewan
- **Alberta**
 - University of Alberta
- **British Columbia**
 - University of British Columbia (PCAT)

Pharmacy College Admission Test (PCAT)

- Required for University of Toronto Faculty of Pharmacy
- 4 hours: 240 MC and
2 writing assignments
- Registration Fee: \$199.00
- Register online at:
<http://www.pearsonvue.com/pcat/>



For more information visit: www.pcatweb.info

Pharmacy College Admission Test (PCAT)

- Held for four testing windows
 - July, September, October/November, and January
 - October 28 - November 1, 2013
 - Can still register, but late fees apply (\$49.00)
 - January 7-8 2014
 - Registration open
- First come, first served basis

For more information visit: www.pcatweb.info

PCAT Format

- 6 sections
 1. Writing
 2. Verbal Ability
 3. Biology
 4. Chemistry
 5. Reading Comprehension
 6. Quantitative Ability
- Must achieve certain minimum standards to be considered for admission into University of Toronto



PCAT – Writing

- **Writing**
 - 30 minutes to suggest a solution in essay format to a given problem
 - i.e. Discuss a solution to the problem of America's dependence on imported non-renewable fossil fuels such as oil

PCAT – Verbal Ability

- **Verbal Ability**
 - Analogies
 - Sentence Completion
 - i.e. INEPT : SKILL :: FLIMSY :
 (“Inept” is to “skill” as “flimsy” is to...)
 - a. Power
 - b. Weight
 - c. Strength
 - d. Thickness

PCAT – Biology

- **Biology**

- General Biology
- Microbiology
- Human Anatomy and Physiology
 - Which of the following cells does not have a nucleus?
 - a. leukocyte
 - b. epithelial cell
 - c. erythrocyte
 - d. sperm

From: <http://www.pearsonassessments.com/hai/Images/dotCom/pcatweb.info/sample.pdf>

PCAT – Chemistry

- **Chemistry**
 - General Chemistry
 - Organic Chemistry
 - Basic Biochemistry Processes
 - Hydrocarbons with two or more double bonds are
 - a. saturated
 - b. cyclic
 - c. acids
 - d. unsaturated

PCAT – Reading Comprehension

- **Reading Comprehension**
 - 50 minutes to read 6 passages
 - Answer 48 multiple choice questions based on the passages:
 - Comprehension
 - Analysis
 - Evaluation

PCAT – Quantitative Ability

- **Quantitative Ability**
 - Basic Math
 - Algebra
 - Probability & Statistics
 - Precalculus
 - Calculus
- Note: no calculators

University of Waterloo



University of Waterloo

Bachelor of Science in Pharmacy (BScPhm)

- First new pharmacy school in Canada in 20 years!
- Admits 120 students each September
- Four year professional program:
 - 7 academic terms
 - 4 co-op work terms

University of Waterloo

Curriculum

Year 1

Winter Academic

Spring Academic

Fall Work Term 1

Year 2

Winter Academic

Spring Work Term 2

Fall Academic

Year 3

Winter Work Term 3

Spring Academic

Fall Work Term 4

Year 4

Winter Academic

Spring Academic

University of Waterloo

Academic Requirements

- Minimum University Average of 75% (3.3/4.0 or 7/9.0 GPA)
- Full course load (30 credits per year)
- PCAT not required
- Must pass interview

Prerequisite Courses (University of Waterloo)

- **Biology**

- Introductory (6 credits):
 - SC/BIOL 1000 and SC/BIOL 1001
- Genetics (3 credits): SC/BIOL 2040
- Microbiology (3 credits): SC/BIOL 3150

Prerequisite Courses (cont.) (University of Waterloo)

- **Chemistry**

- General Chemistry with lab (6 credits):
 - SC/CHEM 1000 and SC/CHEM 1001
- Biochemistry with lab:
 - SC/BIOL/BCHM 2020 (3.0) and 2021 (3.0) with SC/BIOL 2070 (3.0)
- Organic Chemistry with lab (6 credits): SC/CHEM 2020 or SC/CHEM 2020 (3.0) and SC/CHEM 2021 (3.0)

Prerequisite Courses (cont.) (University of Waterloo)

- **Math**

- Mathematics (6 credits):
 - SC/MATH 1505 (6.0)
 - Or SC/MATH 1013 (3.0) and SC/MATH 1014 (3.0)
- Statistics (3 credits):
 - SC/MATH 1131 3.0 or 1532 3.0 or 2560 3.0
 - Non-math department: SC/BIOL 2060 3.0 or PSYC2021 3.0 or HH/KINE 2050 3.0

Prerequisite Courses (cont.) (University of Waterloo)

- **Humanities or Social Sciences**

- 12 credits in any of the following (maximum 6 per subject):

- History
- Religion
- Philosophy
- Classics
- Fine Arts
- Languages
- Literature
- Economics
- Sociology
- Political Science
- Geography

University of Waterloo

Important Dates

August 12, 2013	Applications are now open
December 24, 2013 – January 2, 2014	Christmas Break: acknowledgement emails will resume the first week of 2012.
January 6, 2014	Deadline to submit the winter 2013 application and pay the application fee (midnight EST).
February 7, 2014	Deadline for transcript submission and all supporting documents.
April 10, 2014	Invitations for Pharmacy Admission Interviews will be sent by email.

University of Waterloo

Important Dates

April 17, 2014	Deadline to confirm attendance for your interview.
May 2-4, 2014	Pharmacy Admission Interviews and Reading Comprehension/Writing Test (for selected candidates)
June 6, 2014	Deadline to submit University transcripts with final Winter 2014 grades.
June 11, 2014	Admission decisions
June 25, 2014	Deadline to accept Offer of Admission to Pharmacy
January 2015	Lectures begin

University of Waterloo

Non-Academic Requirements

- **Pharmacy Admission Profile**
 - Essay about you and your involvement in activities
- **References**
 - Preferably from a pharmacist, or a physician or nurse (no relatives)
- **Interview**
 - Conducted by faculty members and pharmacists
 - Includes a Reading Comprehension/Writing Test

University of Waterloo

Co-op Program

Many choices for placement!

- Community: retail pharmacy or family health clinic
- Institutional: hospitals, specialty facilities, or long term care institutions
- Government health agencies
- Pharmacy organizations
- International initiatives



University of Waterloo

Tuition

- 2013-2014 tuition not yet available
- Fall 2013 program fees:
 - Domestic: **\$8 400** per semester
 - International: **\$17 600** per semester
- Program fees do not include textbooks, University Health Insurance Plan, etc



University of Waterloo

Application Checklist:

- Online application
- Complete all prerequisites
- Submit Pharmacy Admissions Profile
- Submit reference letter form
- Attend interview (if invited)

University of Waterloo

- **Contact Information**

Telephone: (519) 888-4499

Fax: (519) 888-7910

Email: pharmacy@uwaterloo.ca

Website:

<http://www.pharmacy.uwaterloo.ca/future-students>



University of Toronto: Leslie Dan Faculty of Pharmacy



University of Toronto: Leslie Dan Faculty of Pharmacy

The Doctor of Pharmacy (PharmD) Program

- Four-year professional program
- Admits 240 students each September
- Applicants must meet the following requirements:
 - Academic Performance
 - Pharmacy College Admission Test
 - Interviews

Academic Performance (University of Toronto)

- Cumulative average of 70% (B-average) or higher
- Preference given to candidates with full course load
- Completion of all prerequisite courses by the Spring of admission year
 - Requires at least 2 years of university study

Prerequisite Courses (University of Toronto)

- English
 - ENG4U or Grade 12U equivalent
- Physics
 - SPH4U or Grade 12U equivalent
- Introductory Biology
 - SC/BIOL 1000 3.0 and SC/BIOL 1001 3.0
 - (Or formerly SC/BIOL 1010 6.0 OR 1410 6.0)

Prerequisite Courses (cont.) (University of Toronto)

- Introductory Chemistry
 - SC/CHEM 1000 3.0 and SC/CHEM1001 3.0
- Organic Chemistry
 - SC/CHEM 2020 6.0
 - SC/CHEM 2020 3.0 SC/CHEM2021 3.0
- Physical Chemistry (Thermodynamics/Kinetics)
 - SC/CHEM 2011 3.0

Prerequisite Courses (cont.) (University of Toronto)

- Biochemistry
 - SC/BIOL/BCHM 2020 4.0 OR 3.0
 - Or SC/CHEM 2050 4.0
- Statistics
 - SC/MATH 1131 3.0 OR 1532 3.0 OR 2560 3.0
 - Non-math department: SC/BIOL 2060 3.0 or PSYC2021 3.0 or HH/KINE 2050 3.0

Prerequisite Courses (cont.) (University of Toronto)

- Calculus (6 Credits)
 - SC/MATH 1013 3.0 + SC/MATH 1014 3.0
 - OR SC/MATH 1300 3.0 + SC/MATH 1310 3.0
 - OR GL/MATH 1930 3.0 + 1940 3.0
 - Note: SC/MATH1505 is NOT acceptable

Prerequisite Courses (cont.) (University of Toronto)

- Humanities/Social Science (6 credits)
 - 6.00 credits in **Humanities or Social Science**
 - Examples:
 - History
 - Religion
 - Philosophy
 - Classics
 - Music
 - Languages
 - Literature
 - Economics
 - Sociology
 - Political Science

University of Toronto: Leslie Dan Faculty of Pharmacy

Mandatory Interviews

- Must meet minimum PCAT & academic requirements
- 2014 dates: March 22-23 and May 10
- Multiple mini interview format:
 - 8-10 short interviews
 - 7 minutes each
- Interviewers: pharmacists, faculty, students, etc



University of Toronto: Leslie Dan Faculty of Pharmacy

Tuition

- 2013-2014 program fees:
 - Domestic: **\$ 15 743.00**
 - International: **\$28 000.00**
(includes University Health Insurance)
- Program fees do not include textbooks and other fees



University of Toronto: Leslie Dan Faculty of Pharmacy

Application Checklist:

- Online application (by January 10, 2014)
- Complete prerequisites
- Write the PCAT
- Send transcripts
- Attend interview (if invited)

University of Toronto: Leslie Dan Faculty of Pharmacy

Contact Information

Telephone: (416) 978-3967

Fax: (416) 978-8511

E-mail: adm.phm@utoronto.ca

Website: <http://www.utoronto.ca/pharmacy/info.htm>



**Remember: Slides will be posted on
bethune.yorku.ca/events**

Pharmacy School Seminar



HAVE A GREAT DAY!