

Pre-Professional Course Prerequisites and Guidelines 2019-2020
Faculty of Science
York University

Important: This listing of course prerequisites for professional faculties outside of York University is published here for your convenience only. It does not provide information about other selection criteria. Requirements change from year to year, and the only official documents are those published by each professional faculty. It is therefore your responsibility to obtain up-to-date information about admissions requirements from each professional faculty to which you intend to apply.

General guidelines:

- Professional schools in Ontario do not give special preference to undergraduate students from their own institutions. York students are not discriminated against in any way. In most cases, admissions committees are not even given information about which university the applicant attended.
- You are strongly encouraged to contact the professional faculty of your choice, in order to confirm that your selection of York courses will meet their admissions criteria. Professional schools urge prospective students attending other universities to phone them for advice and assistance in choosing first and second-year courses. Remember, however, that you should be selecting courses at York to fulfil the requirements of the York Science degree, as well as to fulfil any pre-professional requirements for another institution.
- Take note of important non-academic requirements (not listed here) that each professional school may stipulate. Information on these non-academic requirements, such as CPR training, first aid, extracurricular activities, etc. may be found at each institution's web site.

Websites of Interest

Ontario Medical School Application Service (OMSAS)
www.ouac.on.ca/omsas

Ontario Rehabilitation Sciences Programs Application Service (ORPAS)
[Physiotherapy/Physical Therapy (PT), Occupational Therapy (OT), Audiology (AUD) and
Speech-Language Pathology (SLP)]
www.ouac.on.ca/orpas

MCAT Web site
<https://www.aamc.org/students/applying/mcat/>

CASPer Web site
www.takecasper.com/about-casper/

DAT Info
<http://www.cda-adc.ca/en/becoming/dat/>

PCAT Web site
www.pcatweb.info

OAT Website
<http://www.ada.org/en/oat>

Pre-Medical Association at York University (YPMA)
<https://yorku.campuslabs.ca/engage/organization/YPMA>

The Michener Institute for Applied Health Sciences
www.michener.ca

College of Dietitians of Ontario
www.collegeofdietitians.org

College of Massage Therapists of Ontario
www.cmto.com

College of Medical Laboratory Technologists of Ontario
www.cmlto.com

College of Medical Radiation Technologists of Ontario
www.cmrto.org

Canadian Memorial Chiropractic College
www.cmcc.ca

Canadian College of Naturopathic Medicine
www.ccnm.edu

Prerequisites for Ontario Medical Schools

School	Minimum academic requirement	Prerequisite Courses	Course load expectations	MCAT?
<p>U of Toronto</p> <p>www.md.utoronto.ca</p> <p>Students applying in the final year of a three- or four-year degree program must complete the degree requirements and provide proof of completion prior to the date of enrolment.</p> <p>Students applying in the third year of a four-year degree program must provide proof that they have completed the requirements of that year of their degree prior to the date of enrolment in the medical program.</p> <p>NOTE: Applicants accepted from the third year of a four-year degree program will not be considered for deferred admission. The decision whether or not to first complete one's undergraduate degree should be carefully considered before application to medical school is made.</p>	<p>3 full years (90 credits); any major</p>	<p>1. Any 12 credits of Life Sciences: - Any BIOL course (except BIOL 1500) - Any of following SC/KINE courses:</p> <ul style="list-style-type: none"> • 2011 (Human Physiology I) • 2031 (Human Anatomy) • 3012 (Human Physiology II) • 3450 (Athletic Injuries) • 3460 (Regional Human Anatomy I) • 3465 (Regional Human Anatomy II) • 4010 (Exercise Physiology) • 4020 (Human Nutrition) <p>2. 6 credits of Humanities or Social Science or language course</p> <p>★ Physics, Chemistry and Organic Chemistry are not Life Sciences and are not required.</p> <p>Students are expected to understand the basic principles and vocabulary of physics, chemistry and biology. It is recommended, although not required, that applicants complete a university level course in Statistics and at least two full equivalents in courses that require expository writing. Demonstrated high-level proficiency in oral and written English is essential for success in the medical curriculum and in medical practice.</p>	<p>A full course load (28-30 credits taken each year in the FW term) is not required; however, if a student has taken a full course load in each year, the admissions committee will apply a weighting formula, which may reduce the impact of a student's lowest grades. You must have competed at least three years of study at the time of application to qualify for the weighting formula.</p> <p>For details of this weighting formula see this webpage: https://md.utoronto.ca/gpa-and-gpa-weighting</p> <p>Part-time and summer courses:</p> <ul style="list-style-type: none"> • Count towards meeting prerequisites • Are not considered part of a FW "full course load" • Are not computed into the student's GPA <p>Students are expected to have taken courses at the level corresponding to their year of study. Students applying in their third year must take at least three 3000 level of higher courses. Students applying in their fourth year should be enrolled in a majority of courses at the 3000 and 4000 level.</p>	<p>Yes – Minimum score of 125 in each section is required.</p>

<p>McMaster Michael G. DeGroot School of Medicine https://mdprogram.mcmaster.ca/</p>	<p>Must complete 3 full years (90 credits); any major</p>	<ul style="list-style-type: none"> No course prerequisites A minimum of 15 full-courses or 30 half-courses (three years) is required. <p>★ more than 30 credits in a year may be required to meet this requirement.</p> <p>Students who have obtained an undergraduate degree in less than three years by the time of the application deadline can apply.</p>	<p>There is no requirement that applicants carry a full course load. All courses taken are computed into GPA, including summer courses. If a course is repeated, both the past and repeated grade are included in the calculation.</p> <p>All applicants required to complete a 90 minute computer-based test. CASPer, the Computer-based Assessment for Sampling Personal characteristics, is a web-based assessment of interpersonal skills and decision-making, to be completed at a computer.</p>	<p>Yes-Only Critical Analysis and Reasoning is considered. Minimum score of 123 is required.</p>
<p>Northern Ontario School of Medicine www.nosm.ca</p>	<p>4 year undergraduate degree; any major</p>	<ul style="list-style-type: none"> No course prerequisites <p>It is expected that applicants with majors in science complete at least 2 full course equivalents in arts, social sciences and/or humanities.</p>	<p>All courses taken will be included in the GPA calculation, including summer courses. If a course is repeated, both the past and repeated grade are included.</p> <p>Students who have pursued their undergraduate studies on a full-time basis or part-time basis will be accepted.</p>	<p>No</p>
<p>Ottawa</p>	<p>3 full years (90 credits); any major</p>	<ul style="list-style-type: none"> BIOL 1000 and 1001 6 credits of Humanities or Social Science (language courses are not accepted) Two full-year courses (or four semester courses) from the following Chemistry 	<p>Three years of full-time studies (5 courses per semester each per year) is required. Four courses per semester are accepted and counted in the WGPA only if the missing course/credit is completed either as an additional course within another academic year or as a summer</p>	<p>No</p>

www.med.uottawa.ca/undergraduate/

courses:

- CHEM 1000, 1001
- CHEM 2020 & CHEM 2021
- BIOL 2020 or CHEM 2050

A minimum grade of B (York University scale) is required for all prerequisite courses.

course.

For more details on the WGPA see this webpage:
<https://med.uottawa.ca/undergraduate/admissions/application-process/eligibility-requirements>

Courses taken in summer:

- do count for prerequisites (except for summer preceding MD program)
- are not considered part of a FW "full course load"
- are not computed into the student's GPA

Applicants are required to complete CASPer.

<p>Western Schulich School of Medicine www.schulich.uwo.ca</p>	<p>4 full years (120 credits); must complete or be in the final year of a program leading to a 4-year degree</p>	<ul style="list-style-type: none"> • No course prerequisites • Mixture of biological/medical science courses and social science/humanities courses is recommended 	<p>The two best undergraduate years used for GPA calculation must have a full course load of 5 full or equivalent courses taken during FW, with at least 3 full course equivalents whose published level is at or above the year level of study.</p> <p>Summer courses are not counted in the overall GPA for interview and admission consideration and will not be counted as part of the September to April course load.</p>	<p>Yes</p>
<p>Queen's https://meds.queensu.ca/</p>	<p>3 full years (90 credits), any major</p>	<ul style="list-style-type: none"> • No course prerequisites • A minimum of 15 full-courses or 30 half-courses (three years) is required 	<p>Full time study is defined as a minimum of three courses per term. There is no requirement for full time study, however only the cumulative GPA will be calculated for those not enrolled in full time study.</p> <p>Cumulative GPA (CGPA) and most recent two full-time years GPA (2YGPA) is calculated.</p> <p>★ Individual courses taken during a summer session are not counted in the calculation of the 2YGPA, but are computed into the CGPA.</p>	<p>Yes</p>

Prerequisites for Ontario Dental Schools

School	Minimum academic requirement	Prerequisite Courses	Course load expectations	DAT?
U of Toronto www.dentistry.utoronto.ca	3 full years (90 credits) in any major	<ol style="list-style-type: none"> Any 6 credits of General Biochemistry: <ul style="list-style-type: none"> BIOL 2020 & 2021 OR CHEM 2050 & 3050 Any 6 credits of Mammalian Physiology: <ul style="list-style-type: none"> BIOL 3060 & BIOL 3070 OR KINE 2011 & KINE 3012 Any 12 credits of Life Sciences: <i>(see web for details)</i> <ul style="list-style-type: none"> BIOL 2040 (Genetics) BIOL 2905 (Medical Microbiology) BIOL 3120 (Immunobiology) KINE 2031 (Human Anatomy) KINE 3340 (Phys. Growth & Dev) KINE 3450 (Athletic Injuries) KINE 3460 (Reg Human Anat I) KINE 3465 (Reg Human Anat II) KINE 4010 (Exercise Physiology) KINE 4020 (Human Nutrition) <p>★ Physics, Chemistry and Organic Chemistry are not Life Sciences and are not required.</p> 6 credits of Social Sciences or Humanities 	<p>A full course load (5 full course equivalents) are not required</p> <p>All university courses, including summer courses, are included in the GPA</p> <p>The worst academic year will be dropped from the calculation of an applicant's cumulative GPA provided that four or more years have been completed before May 31 of the proposed year of entry and the year with the lowest grades is not the last of study.</p> <p>Courses taken during the proposed year of entry will not be included in cumulative GPA calculation. Any offer of admission, however, will be contingent upon the successful applicant maintaining an annual GPA of at least 3.0 for their current academic year.</p>	Yes- Completion of Manual Dexterity (MDT) section of DAT exam not required
Western Schulich School of Dentistry www.schulich.uwo.ca/dentistry	Be in the final year of, or have, successfully completed, a four-year undergraduate degree (120 credits)	<ul style="list-style-type: none"> CHEM 2020 & CHEM 2021 BIOL 2020 or CHEM 2050 KINE 2011 & 3012 OR BIOL 3060 & 3070 <p>A minimum grade of B+ (York University scale) required for prerequisites courses</p> <p>It is to applicants' advantage to have successfully completed a full laboratory course in biology, chemistry and physics</p>	The two best undergraduate years used for GPA consideration must have a full course load of 5 full or equivalent courses taken during FW, with at least 3 full course equivalents whose published level is at or above the year level of study.	Yes

			Summer courses do count as prerequisites, but do not count as part of a "full course load" and do not count in GPA calculation.	
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Pharmacy, Optometry, Veterinary Prerequisites

School	Minimum academic requirement	Prerequisite Courses	Course load expectations
<p>Pharmacy U of Toronto</p> <p>Leslie Dan Faculty of Pharmacy</p> <p>www.pharmacy.utoronto.ca</p>	<p>All required courses must be completed by April</p>	<p>New Prerequisites for 2017</p> <ul style="list-style-type: none"> • 3 credits of English (Literature/Composition) – see website for details Note: English 12U no longer accepted • BIOL 1000 & BIOL 1001 • Physics 12U or PHYS 1010 or PHYS 1410 or PHYS 1420 • CHEM 1000 & CHEM 1001 • CHEM 2020 & CHEM 2021 • MATH 1013 & 1014 or 1300 & 1310 or GL/MATH 1930 & 1940 (1505 not acceptable) • CHEM 2011 • BIOL 2020 or CHEM 2050 • Math 1131 or 1532 or 2560 or BIOL 2060 or PSYC 2021 or KINE 2050 or GL/MATH 1610 • BIOL 3060 & 3070 or KINE 2011 & 3012 • 6 credits of Social Sciences or Humanities (language courses no longer accepted) • 	<p>Average is calculated on the basis of ALL university courses attempted and includes any repeats or failures. (except any summer courses taken during year of applying).</p> <p>In cases where a student has opted for a CR/NCR, the actual percentage or letter grade that is reported in the student record system will be calculated into the cumulative average.</p> <p>Pharmacy College Admissions Test (PCAT) required</p> <p>Preference to applicants taking a full course load (five courses per term).</p>
<p>Pharmacy U of Waterloo</p> <p>www.uwaterloo.ca/pharmacy</p>	<p>Must be enrolled in a B.Sc program</p> <p>All required courses must be completed</p>	<ul style="list-style-type: none"> • BIOL 1000 & 1001 • BIOL 2040 • BIOL 2905 or 3150 • CHEM 1000 & 1001 • BIOL 2020 or CHEM 2050 • CHEM 2020 & CHEM 2021 • MATH 1013 & 1014 or 1300 & 1310 or 1505 • BIOL 2060 or another statistics course for scientists • 12 credits of Humanities and/or Social Sciences; no more than 6 credits in any one subject area (see web for details) • 3 credits of English; 30% of final grade must comprise of writing assignments (see web for details) 	<p>All university courses taken used in average calculation.</p> <p>Preference to applicants taking a full course load (five courses per term).</p> <p>Courses taken between the end of May and the beginning of the program will not be used to meet the admission requirement.</p>

<p>Ontario Veterinary College U of Guelph</p> <p>http://ovc.uoguelph.ca</p>	<p>2 full years (60 credits); any major</p>	<ul style="list-style-type: none"> • Any 6 credits of Biological Sciences (animal biology recommended) <ul style="list-style-type: none"> - BIOL 1000 & 1001 - BIOL 2030 - BIOL 3060 & 3070 • BIOL 2040 Genetics • BIOL 2020 Biochemistry OR CHEM 2050 Biochemistry • BIOL 2021 Cell biology • BIOL 2060 Statistics for Biologists or another statistics course with a university-level calculus prerequisite • 6 credits Humanities/Social Science 	<p>Minimum of two full academic years (taken during September - April) in which a minimum of 5 full or equivalent courses (30 credits) have been taken.</p> <p>All prerequisite courses must be completed in semesters with 5 courses</p> <p>60% of the courses in each full-time semester in 3rd and 4th year must be at the 3000 level or above</p>
<p>Optometry U of Waterloo</p> <p>www.optometry.uwaterloo.ca</p>	<p>3 full years (90 credits), BSc program</p> <p>All required courses must be completed</p>	<ul style="list-style-type: none"> • BIOL 1000 & 1001 • BIOL 2020 Biochemistry or CHEM 2050 Biochemistry • BIOL 3150 Microbiology • CHEM 1000 or CHEM 1001 • CHEM 2020 or CHEM 2021 • PHYS 1010 or 1410 or 1420 • MATH 1013 or 1300 [not 1505] • PSYC 1010 • 3 credits of English/Writing • KINE 2011 & 3012 Human Physiology or BIOL 3060 & 3070 Animal Physiology • PHIL 2070 Intro Ethics or PHIL2075 Intro to Practical Ethics • 3-credit statistics course [examples of statistics courses include BIOL2060; MATH1131; KINE2050; PSYC2020; PSYC2021] 	<p>The Optometry Admissions Committee looks for applicants to be taking a full course load (5 courses per term) during their BSc studies.</p> <p>All university courses taken used in average calculation.</p> <p>OAT required</p> <p>Applicants must take CASPer</p>