



# Mathematics 3122 :: Real Analysis II :: Fall 2019

## What's new?

Office hours during the exam period:

1. Friday, Dec 6, 10.30 AM - 12 PM.
2. Friday, Dec 13, 10.30 AM - 12 PM.

## Course Details

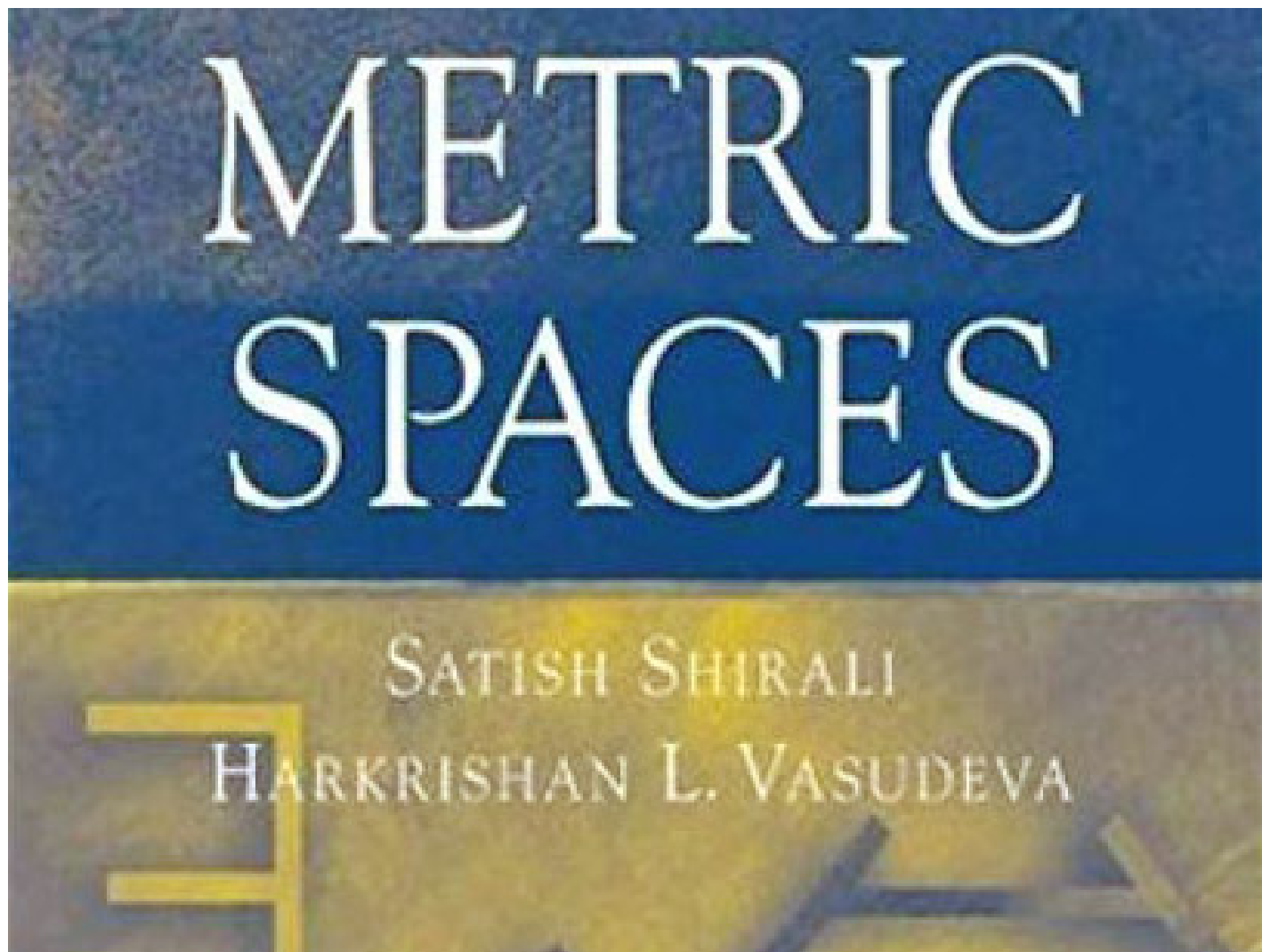


**Location and Time::**

Lectures: MC 107 MWF 9.30 - 10.30 AM;

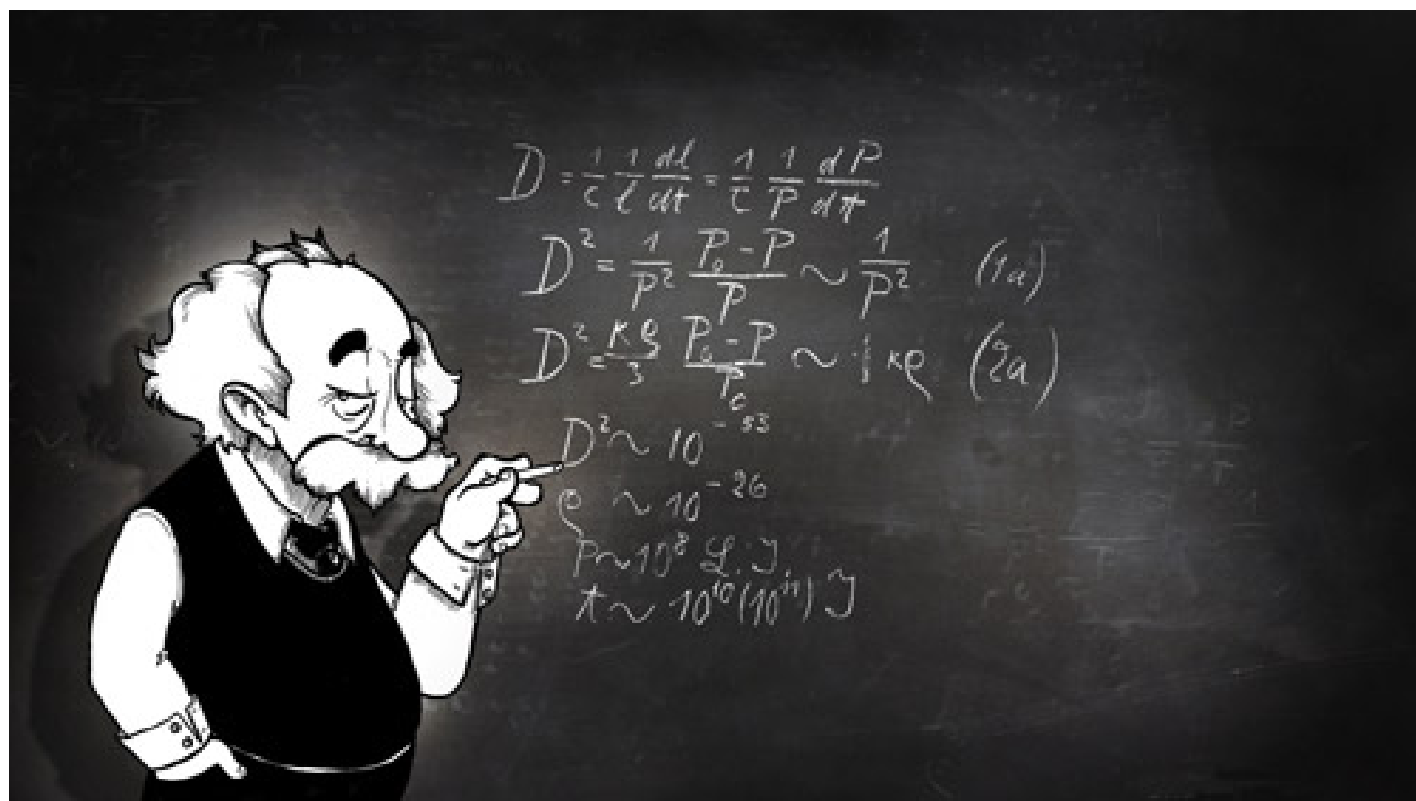
Tutorial: MC 107 Th 11.30 AM - 12.30 PM

OWL Page: [Login HERE](#)

**Textbook**

Metric Spaces, by Shirali and Vasudeva, Springer-Verlag, London, 2006. This is a free download from [Western Library](#). Follow the "Metric Spaces -- Springer e-books" link. You will have to log in to use the proxy server if you are off campus.

Other relevant texts: Understanding Analysis by S. Abbott (Springer); [Real Analysis](#) by Laczkovich and Sos (Springer); Set Theory and Metric Spaces by I. Kaplansky (AMS); Metric Spaces by O Searcoid (Springer).

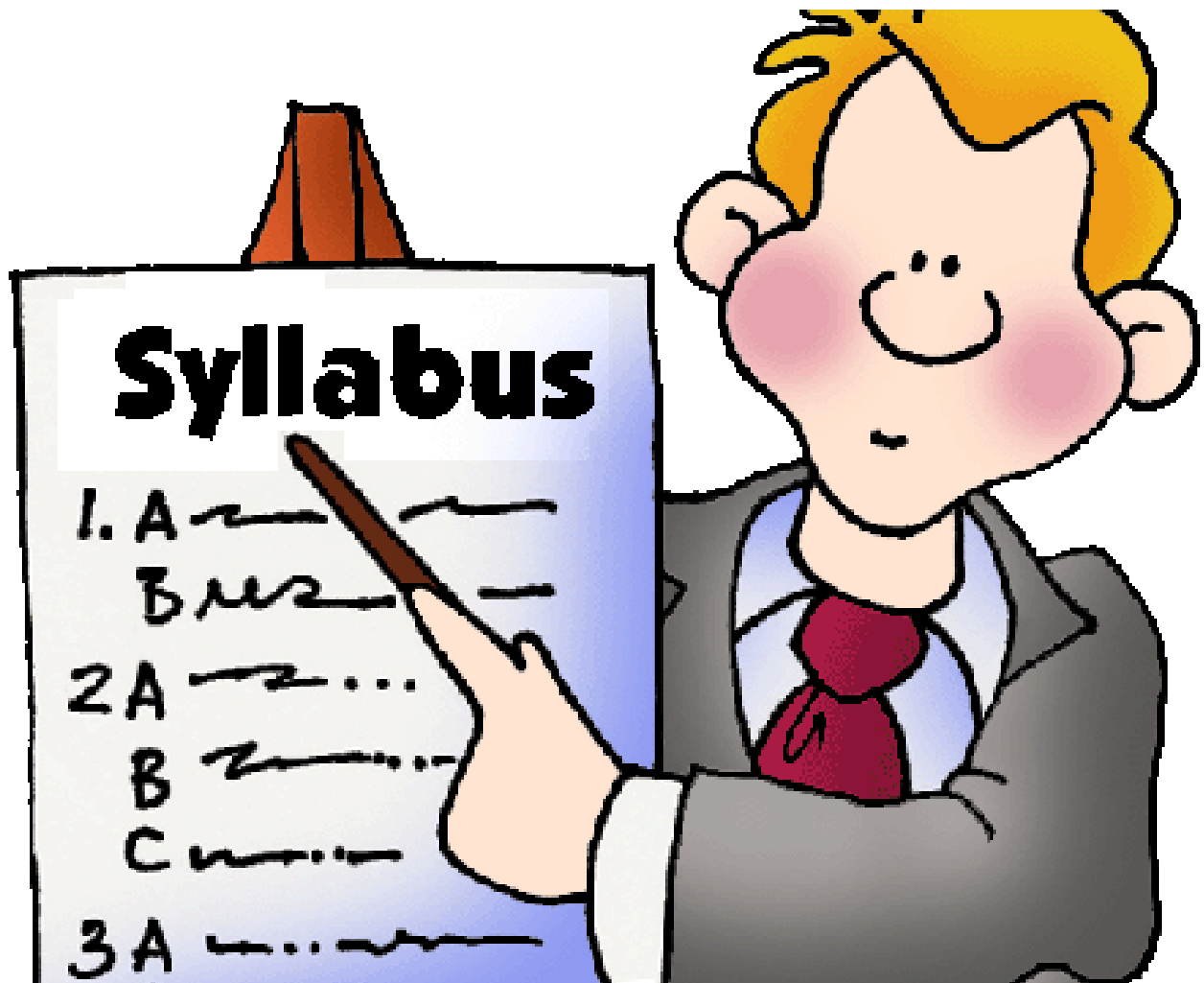


## Instructors

Lectures: Prof. Rasul Shafikov, shafikov@uwo.ca.


Office Hours: Monday 10.30 - 11.30 AM, Tuesday 2.30 - 3.30 PM in MC 112.

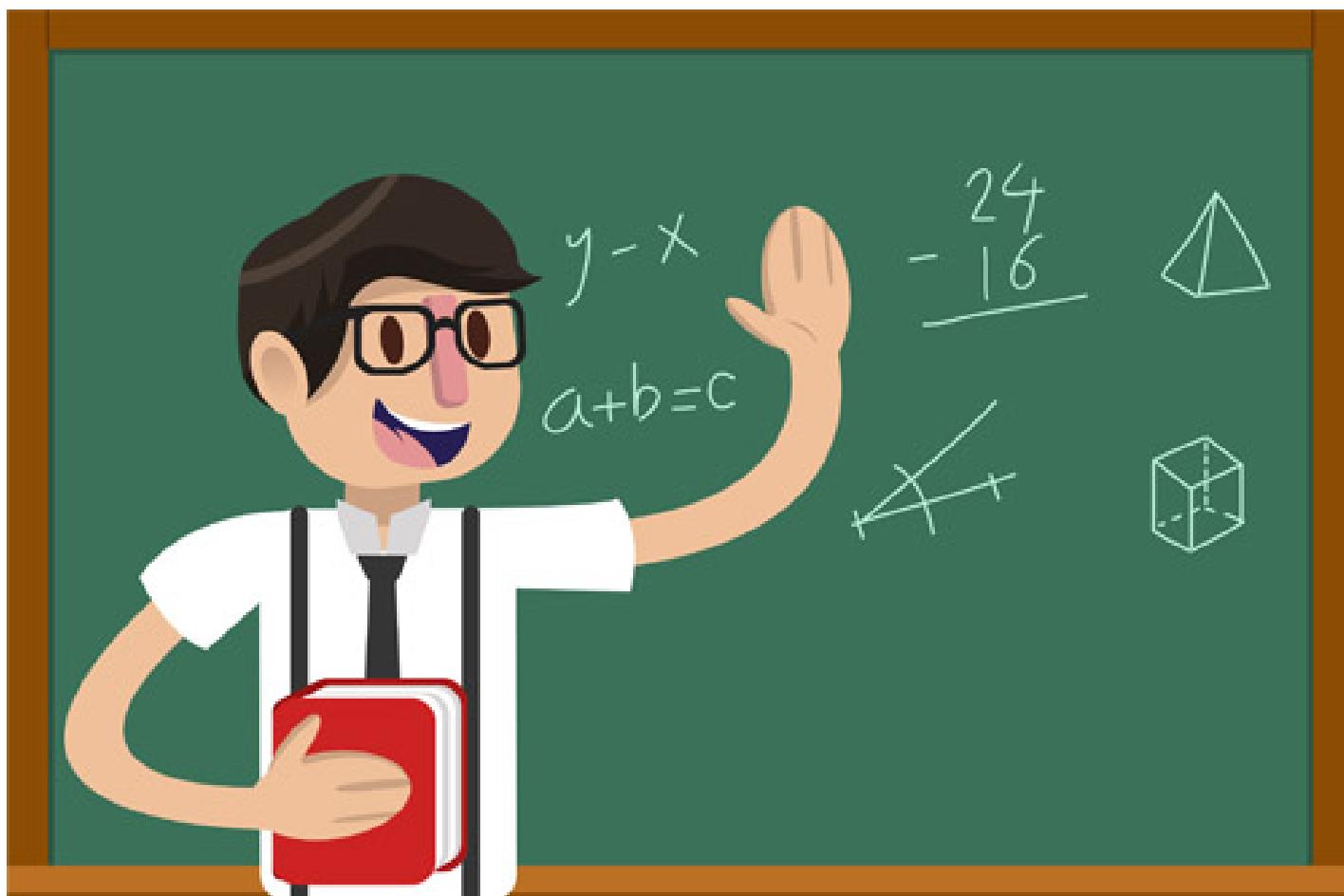
Tutorial: Pranav Chakravarthy, pchakrav@uwo.ca



### Course Outline

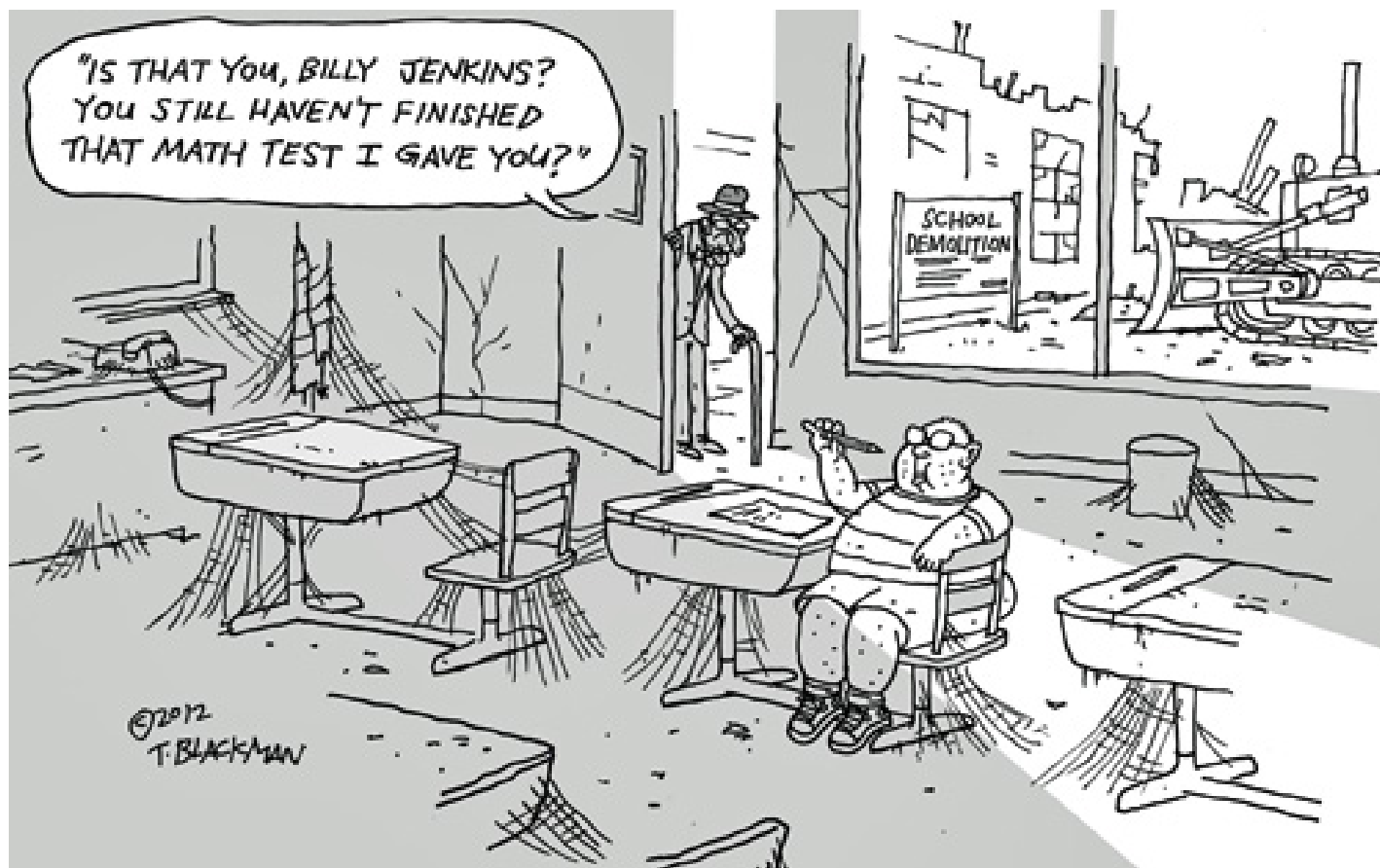
Differentiation, the Mean Value Theorem. Riemann integration, Fundamental Theorem of Calculus. Metric spaces, including topology, convergence, compactness, completeness, and connectedness. Uniform convergence of functions. Selected additional topics.

 [Course syllabus](#)



### What is expected of the student?

Students are expected to attend all lectures and complete all tests, assignments, and examinations. No aids are permitted in tests and examinations. Regular homework is an essential part of the course; it is the student's responsibility to keep up with the assigned homework and to seek additional help if and when it is needed..



## Course Evaluation

Midterms & Assignments - 60%; Final Examination - 40%. No calculators or other electronic devices or any other aids are allowed on tests and exams..

## Homework

Homework will be collected biweekly.

1. Assignment 1. Due Thursday, Sept 26 in class.
2. Assignment 2. Due Monday, Oct 10 in class.
3. Assignment 3. Due Thursday, October 31, in class. The deadline is extended till Nov 1.
4. Assignment 4. Due Thursday, Nov 14 in class.
5. Assignment 5. Due Friday, Nov 29 in class.

## Tutorial

Tutorial meets every Thursday 11.30 AM - 12.20 PM in MC 107. Some of the material discussed during the tutorial will be posted here.

- Week 2 and TA notes;

- [Week 3](#) and [TA notes](#);
  - [Week 4](#) and [TA notes](#);
  - [Week 5](#) and [TA notes](#);
  - [Week 6](#) and [TA notes](#);
  - [Week 7](#) and [TA notes](#);
  - [Week 8](#) and [TA notes](#);
  - [Week 9](#) and [TA notes](#);
  - [Week 11](#) and [TA notes](#);
  - [Week 12](#) and [TA notes](#);
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## Exams

There will be 2 in-class midterms: **October 18** and **November 15**. Please mark these dates in your calendar.

[Practice Midterm 1](#).

[Practice Midterm 2](#).

[Practice Final Exam](#).

The Final Final exam is scheduled for **Sunday, Dec 15, 10 AM - 1 PM**.

All exams are cumulative!

## Policies

SENATE POLICY ON PREREQUISITES: Unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

STATEMENT ON ACADEMIC OFFENCES: Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a [Scholastic Offence](#). Computer-marked multiple-choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

ABSENCE OR MISSED WORK: If you are unable to meet a course requirement due to illness consult the [Policy on Accommodation for Medical Illness - Undergraduate](#). If you are unable to meet a course requirement due to other serious circumstances, contact your instructor immediately.

SUPPORT SERVICES: Registrars: Main Campus (other registrar offices: Brescia, Huron, King's);

Student Development Centre;

University Students' Council;

Academic Calendar;

Students who are in emotional/mental distress should refer to Mental Health Western for a complete list of options about how to obtain help.