

Western University  
London, Canada  
Departments of Applied Mathematics and Mathematics

## Applied Mathematics 2276A - Intersession

**INSTRUCTOR:** Bogdan Tudose, Department of Applied Mathematics.  
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### Basic Course Information

**Class times: M W Th 10:30am – 1pm in SSC 3010.**

First day of class: Monday May 13.  
Last day of class: Thursday June 20.

### Req. Texts

**Advanced Engineering Mathematics**, 6th edition, Dennis G. Zill (Jones and Bartlett).

**Antirequisite(s):** Calculus 2302A/B, Calculus 2303A/B, Calculus 2502A/B, Calculus 2503A/B, Applied Mathematics 2277A/B, the former Applied Mathematics 2411, the former Applied Mathematics 2413, the former Applied Mathematics 2415.

**Prerequisite(s):** Applied Mathematics 2270A/B.

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.

## Course Syllabus

### Description

Topics covered include a review of orthogonal expansions of functions and Fourier series and transforms, multiple integration with methods of evaluation in different systems of coordinates, vector fields, line integrals, surface and flux integrals, the Green, Gauss and Stokes theorems with applications.

### Expectations

- Students are expected to have read the appropriate sections from the textbook and to have completed practice problems recommended in class.
- Students should note that success in university-level mathematics courses requires self-directed exploration of topics.
- Students are expected to use help resources available to them when problems arise. It is often better to tackle difficult material when problems with understanding occur. Putting off questions until exam time is

an ill-advised study strategy. Students that work at a consistent pace throughout the term and make a consistent effort to understand material tend to achieve better results.

## Evaluation

Your final grade will be calculated as follows:

<b>Midterm Exam</b>	<b>30 %</b>
<b>Final Exam</b>	<b>50 %</b>
<b>Quizzes</b>	<b>20 %</b>

### Midterm Exam

At the mid term you will write a two-hour exam-style test. This Midterm Exam will take place on **Friday May 31 2019, 7pm -9pm, location TBA.**

### Final Examination

The Final Examination will be three hours and will be cumulative. The date, time and location of the final exam will be announced by the Registrar's Office (June 24 or 25). Students seeking a make-up exam for any reason must secure approval from the appropriate dean (see addenda).

### Quizzes

There will be a weekly quiz administered in class.

All quizzes and exams will be closed book, no calculators allowed.

## Medical Excuse Requirements

If you are unable to meet a course requirement due to illness or other serious circumstances, you must provide valid medical or other supporting documentation to your faculty's Dean's Office as soon as possible and contact your instructor immediately. It is the student's responsibility to make alternative arrangements with their instructor once the accommodation has been approved and the instructor has been informed. In the event of a missed final exam, a "Recommendation of Special Examination" form must be obtained from your faculty's Dean's Office immediately. For further information please see: <http://studentservices.uwo.ca/secure/index.cfm>

A student requiring academic accommodation due to illness, should use the Student Medical Certificate when visiting an off-campus medical facility or request a Records Release Form (located in the Dean's Office) for visits to Student Health Services. The form can be found here:

[https://studentservices.uwo.ca/secure/medical\\_document.pdf](https://studentservices.uwo.ca/secure/medical_document.pdf)

## Mental Health Statement

Students who are in emotional/mental distress should refer to Mental Health@Western <http://www.uwo.ca/uwocom/mentalhealth/> for a complete list of options about how to obtain help.

## **Accessibility**

Please contact the course instructor if you require lecture or printed material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Services for Students with Disabilities (SSD) at 661-2111 ext. 82147 if you have questions regarding accommodation.

## **Support Services**

Learning-skills counselors at the Student Development Centre (<http://www.sdc.uwo.ca>) are ready to help you improve your learning skills. They offer presentations on strategies for improving time management, multiple-choice exam preparation/writing, textbook reading, and more. Individual support is offered throughout the Fall/Winter terms in the drop-in Learning Help Centre, and year-round through individual counseling.

Additional student-run support services are offered by the USC, <http://westernusc.ca/services>.

The website for Registrar Services is <http://www.registrar.uwo.ca>.