

THE UNIVERSITY OF WESTERN ONTARIO
London **Canada**

APPLIED MATHEMATICS 2276B-Winter 2019
Applied Mathematics for Electrical and Mechanical Engineering III

Course Outline

Instructors:

Prof. X. Zou (Office MC 280) Section 001: M W F 8:30am-9:30am in MC 110
Prof. K. Nguyen (Office MC 282) Section 002: M W F 10:30am-11:30am in NSC 1

Tutorials:

003	Tuesday	4:30pm-5:30pm	SEB 2100
004	Wednesday	11:30am-12:30pm	MC 105B
005	Wednesday	11:30am-12:30pm	SEB 2100
006	Tuesday	4:30pm-5:30pm	SSC 3022

Website:

Course announcements, material and information will be posted at <https://owl.uwo.ca>

Text:

- **Advanced Engineering Mathematics**, 6th edition, Zill and Wright, ISBN 978-1-284-10590-2. Optional

Calculus, A Complete Course, 9th edition by R.A. Adams and C. Essex, Pearson 2017, ISBN-13: 978-0134588674.

Course Description:

This half-course is designed for electrical and mechanical engineering students with an introduction to complex Fourier series, Fourier Integral and transform, multiple integration with methods of evaluation in different coordinate systems, vector calculus with applications that are most useful in the engineering sciences.

Method of Evaluation:

40 % quizzes. There are four quizzes in all. Q1: Jan 22 and Jan 23. Q2: Feb 12 and Feb 13. Q3: Mar 12 and Mar 13. Q4: Mar 26 and Mar 27.

60% Final Exam

Attendance:

Attendance is not mandatory but highly recommended. All material in the lecture up to the end of the course can be considered testable. In addition, extra material covered in lectures can be tested in quizzes, and the final exam.

Missing quizzes or Exams:

Missing a quiz will result a grade of Zero for that quiz except when permission is granted from Engineering Student Services. If permission is granted, a prorated mark will be assigned. There will be no make-up for quizzes.

Registration in Tutorials:

Students will not receive credit for writing quizzes in tutorial sections in which they are not registered.

Addendum to all Applied Mathematics Course Outlines:

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 Office as soon as possible and contact your instructor immediately. It is the student's responsibility to make alternative arrangements with their instructors 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 at: http://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 Service for Students with Disabilities (SSD) at 661-2111 ext 82147 if you have questions regarding accommodation.

Support Services:

Learning-skill counselors at the Student Development Centre (<http://sdc.uwo.ca>) are ready to help you improve your learning skills. They offer presentation 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.

The website of Office of Registrar is <http://www.registrar.uwo.ca>.