

The University of Western Ontario
London, Ontario Canada
Department of Applied Mathematics
APPLIED MATHEMATICS 2270A
Course Outline 2018

Instructors:

Dr. Khoa Nguyen (Office MC 282) Section 001
Monday, Wednesday, Friday : 8:30am -9:20 NSC-1

Dr. Bogdan Tudose (Office MC 286) Section 002
Monday, Wednesday, Friday : 8:30am -9:20am SSC-2050

Dr. A.B. MacIsaac (Office MC 285) Section 003
Monday, Wednesday, Friday : 9:30am -10:20 MSC-110

Tutorials:

004	Friday	12:30 PM	1:30 PM	SSC-2024
005	Friday	12:30 PM	1:30 PM	SSC-2028
006	Friday	10:30 AM	11:30 AM	FNB-1240
008	Monday	11:30 AM	12:30 PM	UCC-56
009	Monday	10:30 AM	11:30 AM	SSC-3022
011	Monday	11:30 AM	12:30 PM	SSC-2050
012	Friday	10:30 AM	11:30 AM	SEB-2100

Office Hours: TBD by Course Instructors

Text:

Advanced Engineering Mathematics, 6th edition, Zill (required) (No need to take book to class.)

May also use

Advanced Engineering Mathematics, 5th edition, Zill and Wright ISBN 978-1-4496-9172-1

Course Description:

This (half) course is designed to provide all second year engineering students with an introduction to the field of differential equations, with special emphasis on methods and applications that are most useful in the engineering sciences. Topics include first order differential equations of various types, higher order differential equations and methods of solving them, initial and boundary value problems, applications to mass-spring systems and electric RLC circuits, Laplace transform and its use for solving differential equations, systems of linear differential equations, orthogonal functions and Fourier series.

Method of Evaluation:

45% quizzes Q1: Oct 1st and Oct 5th Q2: Oct 29th and Nov 2nd Q3: Nov 26th and 30th
(50 minutes each during Tutorial Sessions. Multiple Choice and Long Answer)

55% Final Exam (TBD) (3 hours Multiple Choice and Long Answer)

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, tests and exams.

Missing Quizzes or Exams: Missing an exam or quiz will result a grade of zero for that exam or 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: Quizzes will be written during Tutorial session. 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 supporting documentation to the Academic Counselling Office of your home faculty as soon as possible. If you are a Science student, the Academic Counselling Office of the Faculty of Science is located in NCB 280, and can be contacted at scibmsac@uwo.ca.

For further information, please consult the university's medical illness policy at http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_medical.pdf

If you miss the Final Exam, please contact your faculty's Academic Counselling Office as soon as you are able to do so. They will assess your eligibility to write the Special Exam (the name given by the university to a makeup Final Exam).

You may also be eligible to write the Special Exam if you are in a "Multiple Exam Situation" (see http://www.registrar.uwo.ca/examinations/exam_schedule.html)

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 Student Accessibility Services (SAS) at 661-2147 if you have any questions regarding accommodations.

The policy on Accommodation for Students with Disabilities can be found here: http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_disabilities.pdf

The policy on Accommodation for Religious Holidays can be found here: http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_religious.pdf

Learning-skills counsellors 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 counselling.

Students who are in emotional/mental distress should refer to Mental Health@Western (http://www.health.uwo.ca/mental_health) for a complete list of options about how to obtain help.

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