

The University of Western Ontario

London

Canada

APPLIED MATHEMATICS 2270A

Course Outline

2015

Instructors:

Prof. K. Nguyen	Section 001: M W F 8:30-9:30 AM	NS 145	Office MC 282
Prof. T. Moschandreou	Section 010: M W F 8:30-9:30 AM	NS 7	Office MC 250

Tutorials:

- Tutorial 002 F 11:30-12:30PM SH 2355
- Tutorial 003 W 3:30-4:30PM SEB 1059
- Tutorial 004 F 12:30-1:30PM SSC 2024
- Tutorial 005 F 10:30-11:30AM SH 2355
- Tutorial 006 F 11:30-12:30PM SH 2316
- Tutorial 008 F 12:30-1:30PM SSC 2028
- Tutorial 009 F 10:30-11:30AM SH 3317

Website:

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

Text:

- **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 transforms and its use for solving differential equations, systems of linear differential equations, orthogonal functions and Fourier series.

Method of Evaluation:

10% assignments

15% quizzes

30% midterm exam- Saturday, October 24, 2015, 7:00pm-9:00pm

45% 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, tests and exams. Dates for quizzes will be announced in class. Absence from class on the day of announcement is not a valid excuse for missing those dates.

Late Assignment submission and missing Quizzes or Exams:

Missing an exam or quiz or late assignment submission will result a grade of Zero for that exam or quiz or late assignment submission except a 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 or midterm.

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 founded 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 Services 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://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.

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