

THE UNIVERSITY OF WESTERN ONTARIO
London Ontario

Applied Mathematics 375a
Course Outline - 2006

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Office Hours: *To be scheduled in class* during the first two class meetings

Class Time and Place: Monday, Wednesday, Friday 12:30-1:30 PM , Social Science Centre, Room 2050

Textbook: *Advanced Engineering Mathematics*, by Zill and Cullen, 2nd edition, Jones and Bartlett Publ.

Course Website: <http://instruct.uwo.ca/appl-math/375a/ve375a.htm>

Content: Laplace transforms and their applications to ordinary differential equations, Fourier Series and their applications to partial differential equations, Fourier transforms and boundary value problems (Chaps 4,12,13,15 of Zill and Cullen and, time permitting, some additional material). This is a very broad menu of topics from which the course content, which is developed sequentially from material already covered, is essentially selected as the material covered during in-class lecture. For this reason, students are strongly advised not to miss class and *never* to miss two or more classes in a row. If exam/quiz dates are announced in class, absence from class on the day of an announcement is not a valid excuse for missing those dates.

Evaluation: There will be one three hour evening midterm exam, and a three-hour final at the end of the term. There will also be in addition two one-hour “in-class” exams. The final grade will be determined via the following weightings: 10% for each one-hour exam, 35% for the midterm exam, and 45% for the final exam. Exam dates will be announced in class, and posted on the course website.

Homework: Homework problems will be assigned on a class-by-class basis, but are not to be handed in; no homework will be graded. However, **exam problems will be primarily based on the assigned homework**. Students are expected to be able to do *all* of the assigned homework, and should take advantage of Instructor (and Teaching Assistant) Office Hours if they have problems doing homework problems.

Makeup Exams: Makeup exams will be permitted for students who have the Instructor’s permission to be absent from the regularly scheduled exam. Such permission, as is appropriate for conflicts with religious holidays, family celebrations, etc., must be arranged with the Instructor **at least one week in advance** of the scheduled exam date.

Students missing exams who do not have prior permission to do so will be permitted to take makeup exams only if their absence is from an documented illness or from extraordinary and unanticipated personal or family circumstances. For such cases, it is the student’s responsibility to contact (or have Guidance contact) the Instructor within one week of the missed scheduled exam if a makeup exam is to be scheduled for that student. Documentation accounting for the student’s absence may be required by the instructor, depending on the circumstances of the absence.

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Addendum to all Applied Mathematics Course Outlines:

The UWO Senate Academic Handbook has specified that the following points should be added to all course outlines:

- 1. Plagiarism:** Students must write their essays and assignments in their own words. Whenever students take an idea, or a passage from another author, they must acknowledge their debt both by using quotation marks where appropriate and by proper referencing such as footnotes or citations. Plagiarism is a major academic offence (see Scholastic Offence Policy in the Western Academic Calendar).
- 2. Plagiarism Checking:** The University of Western Ontario uses software for plagiarism checking. Students may be required to submit their written work and programs in electronic form for plagiarism checking.
- 3. Prerequisites for a course:** Unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you will 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.