

**1205-201: Advanced Engineering Mathematics II
& 1205-222: Differential Equations
1st Trimester 2548**

Lectures: Tue Th 10:00-12:00, Room 07-201

Instructor: Dr. Gaywalee Yamskulna

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Office Hours: Wed 13:00-15:00 and by appointment.

Textbook (required): *Advanced Engineering Mathematics* by Erwin Kreyszig, 8th Edition.

Course Outline: I intend to cover the material in Chapters 2,5,10,11,17, 19.1-19.3. Reading ahead is greatly encouraged. Accordingly, I will let you know the sections I will be covering at least two classes in advance.

Attendance (2%): You are expected to attend class and attendance will be taken on a regular basis. You are responsible for the material covered when you miss a class.

Quizzes (15%): We will have a take home quiz every week. The quizzes will be given out each Tuesday and collected at the beginning of each Thursday's class. The quiz will be given based on the previous TueTh lecture material and the homework assignments. No make-up quizzes will be given unless you have a reasonable explanation for being unable to complete it.

Exam 1 (15%): after Chapter 5, we will have an exam in class. It will cover Chapters 2,5.

Exam 2 (15%): after Section 11, we will have an exam in class. It will cover Sections 10,11.

Exam 3 (15%): after Section 19.3, we will have an exam in class. It will cover Chapter 17, Sections 19.1-19.3.

Final (38%): We will have a final exam on 24 August 2548 from 12:00 to 15:00. The exam will be comprehensive, covering the whole course.

Grading Scale: Grades for the course are based on the following percentages:

A [90,100] **B** [80,90) **C** [70,80) **D** [60,70) **F** [0,60).

Homework: For each section of material covered there will be an assignment of problems from the text book. Solutions will not be collected, but will be discussed at the

beginning of each class according to the interests of the students. You are expected to do **all** homework problems assigned. While attempts to solve homework problems will not directly affect grading, they provide the best way to learn the material and to prepare for exams.

Special Needs: If you need an accommodation for which you are eligible, please inform me at the beginning of the semester (during the first two weeks of class) so that this can be implemented.

Warning: Plagiarism and cheating are serious offenses. Penalties can range from a minimum of a zero grade on the invalid instrument to expulsion from the University.