

REVISED

MAE 105 INTRODUCTION TO MATHEMATICAL PHYSICS SPRING QUARTER 2009

Instructor:	Professor Sia Nemat-Nasser [sia@ucsd.edu] Office Hours: Friday 4:00 - 5:00 4209 EBUI
Lecture:	Tuesday and Thursday 3:30 - 4:50 CENTER 119 Thursday 5:00 - 5:50 CENTER 119
TA's:	Mr. Byung-wook Kim [byk007@ucsd.edu] Consultation Office Hour: Wednesday's 9:00 - 11:00 305 EBU-2 Mr. Christian Nielsen [cenielse@ucsd.edu] Problem Solving Session: Monday's 5:00 - 6:50 2204 WLH Consultation Office Hour: Monday's 12:00 - 1:00 305 EBU-2
Prerequisites:	Physics 2A-B, Math 20D or equivalent
Text:	Richard Haberman, <i>Applied Partial Differential Equations</i> (Fourth Edition, Prentice Hall)
Class Website:	http://maecourses.ucsd.edu/~snematna/mae105-sp09/

SYLLABUS (see *Class Website*)

GENERAL COMMENTS: Students are responsible for all the material that is covered in the class. The lectures generally follow the indicated sections of the text.

Note: If you anticipate that you will not be able to be present on the dates shown in the syllabus for the quizzes or the exams, you are advised to drop the course now and take it in the future, as there will be **no make-up quizzes, mid-terms or final exam allowed under any circumstances. The grades for missed homework, quizzes or exams will be zero.** If you cannot attend a lecture, make sure that your homework is turned in either before or at the beginning of the class; it is your responsibility to arrange for this.

HOMEWORK PROBLEMS: (10% of course grade). Homework problems will be assigned weekly, with an indicated due date, and will be graded. Homework problems must be turned in at the beginning of the class period of the due date. You are **strongly encouraged** to do the problems to prepare for the quizzes and examinations. The assigned readings will help with the homework problems. Solutions to homework problems will be posted on the class website the day following the due date. The graded homework will be available the following week, and may be picked up outside of the 4200 EBUI pod. **Missing and late returns will receive zero credit.**

QUIZZES: (25% of course grade). There will be weekly, 20-minute quizzes (**closed book, closed notes, no computer nor calculator**), at the beginning of the class that will include the material that has been covered. **The date for each quiz is noted in the syllabus.** There will be (at least) a total of seven quizzes, from which the best five grades will be used as 25% of the course grade. Solutions to quizzes will be posted on the class website the day following the quiz. The actual graded quizzes will be available the following week, in class.

EXAMS: (Mid-terms 30% of course grade; Final 35% of course grade). There will be two mid-term exams, each counting 15% of the course grade. The final exam will be worth 35%. All exams will be open book, but closed notes; you may not use calculators or computers. Exams will be based on material covered in lectures. Therefore you are strongly encouraged to attend lectures, take good notes, and read the text. Solutions to midterms will be posted on the class website the day following the mid-term.

REGRADES will be accepted within 24 hrs. from the time the assignment or exam is returned. **All graded exams and homeworks will be placed outside of the 4200 pod of Engineering Building-I. It is your responsibility to retrieve your graded work in a timely manner if you wish to have a chance to ask for possible regrading. Attach a note clearly explaining what you think should be regraded and why.**

PROBLEM SOLVING SESSIONS: The TA will hold a problem-solving session on **Monday's 5:00 – 6:50 in room 2204 WLH.** TA will answer questions and solve problems similar to the homework and quizzes. Attendance is optional, but strongly encouraged. Notes from the problem solving sessions will also be posted on the class website. **Do not be surprised if a problem solved by the TA is given as a quiz or an exam problem.**

CONSULTATION OFFICE HOUR: TAs' will hold consultation office hours on **Monday's 12:00 – 1:00 and Wednesday's 9:00 – 11:00. Both sessions will be held in room 305 Engineering Building 2.** TAs will be available to answer questions in regards to the material that was covered in class or discuss problems given on the homework, quiz and mid-terms.