Syllabus: 22M:034 Engineering Math IV: Differential Equations

Fall 2003 (Section 102) TR 10:55 - 12:10, 118 MLH

Instructor: Dr. Isabel Darcy *Office:*B1H MLH *Phone:* 335- 0778
Email: idarcy@math.uiowa.edu
Tentative Office Hours: T 9:30 - 10:45, R 12:15 - 1:30 and by appointment. (Please note I am usually in my office, so you are also welcome to drop by, call, or e-mail. To make sure I am available, please make an appointment).
Course WWW site: http://www.math.uiowa.edu/~idarcy/COURSES/34/FALL03/34.html
Check this for a list of assignments so far, possible changes in the course schedule, and electronic copies of course handouts.

Text: Boyce and DiPrima, "Elementary Differential Equations and Boundary Value Problems," 7th edition (2001).

Grading system:

HW & Quizzes: 13%	90% <= A- < 91% <= A
Computer Projects: 13%	80% <= B- < 81% <= B < 89% <= B+ < 90%
Exam 1: 22%	70% <= C- < 71% <= C < 79% <= C+ < 80%
Exam 2: 22%	60% <= D- < 61% <= D < 69% <= D+ < 70%
Final: 30%	F < 60%

GRADING & EXAMS: All work must be shown in order to receive credit. This holds for all exams including the final, all quizzes (if any are given), homework and computer projects. Important note: If no work is shown, you may receive zero credit even if your answer is correct.

2 exams and a final will be given. Dates and locations TBA. You are required to bring identification to all exams. Calculators may NOT be allowed. You are required to pick up your exams and keep them until the end of the semester. The final exam will be cumulative. The final is tentatively set for Monday, December 15 at 2:15 PM (see the Fall 2003 *Schedule of Courses*). This could change, however, when the firm *Final Exam Schedule* comes out later in the semester.

THERE IS NO CURVE IN THIS CLASS, but improvement may be taken into consideration.

Your grades may be posted on WebCT. If there is a mistake in grading, you must report this mistake within one week from when the exam, homework, etc. has been handed back to the class (whether or not you picked up your exam, homework, etc).

More on computer projects: It is not assumed that you are an expert in any particular operating system or computer algebra software in advance. Web resources connected with the computer assignment will offer help on using Maple on the machines in the Mathematics Department's Computer Lab (B5 MLH), which run Linux. Things should look roughly the same on the machines in the Engineering labs 1220 and 1231 SC. You are free to use another platform (e.g. PC, MacIntosh) and/or computer algebra package (e.g. Mathematica) if you wish; however, there will be no support (helpful handouts, etc.) on these.

Sections to be covered: We will cover most of chapter 1 - 4, 6, 7 and some supplementary material as time allows. You should read all sections/handouts/web material corresponding to covered material and/or assigned problems. There may be test questions related to this reading even if not covered in class.

Attendance and absences: Your attendance at each scheduled class meeting and problem section is expected. You are responsible for material covered in class and announcements made during class; these may include changes in the syllabus. Absences from exams will require a compelling reason, and must be arranged with your instructor in advance.

Notes to Student: (1) Please let your instructor know if you have a disability that requires special arrangements. (2) The main office of the Department of Mathematics is in 14 MLH. To make an appointment to speak with the chair of the department, call 335-0708 or contact the departmental secretary in 14C MLH.

You may collaborate with other students on the homework; however, each individual student is responsible for turning in your own homework in your own words. Copying is not collaboration and will be prosecuted under scholastic dishonesty. Any significant collaboration should be acknowledged.

Policy on Scholastic Dishonesty: Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and/or dismissal from The University. Since such dishonesty harms the individual, all students and the integrity of The University, policies on scholastic dishonesty will be strictly enforced.

The University policies on scholastic dishonesty will be strictly enforced.

Assignment 1:

Read Sections 1.1 - 1.4;
p.8 #1,2,11,14,21,22;
p.14 #1,6,7,8,12,13;
and TBA