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MAP 4341 Introduction to Partial Differential Equations

Time and Location

Spring 2015, Section 2780, MWF – 4th period, 10:40-11:30 am; LIT 201

Description and Goals

Course Text: R. Haberman, Applied Partial Differential Equations, 4th edition

Course Content: Chapters 1-5, 7-12; The course will not exactly follow the content of the textbook. Good class notes will be sufficient to cover all topics of the course. However, some of homework assignments are taken from the textbook. Lecture topics will be posted in the link Lecture Topics and Homework along with references to relevant sections of the textbook. Please check the link regularly.

Exams: There will be six exams and the final exam given every other week (usually on Mondays), starting January 23. A half of the exam problems will be taken straight from the homework. The other problems are similar to the homework problems and examples discussed in lectures. Each exam covers topics discussed in class during two weeks or so prior the exam. The exact dates of the exams and topics covered in each exam will be posted in the homework page. One formula sheet is allowed on exams (no restriction on the content; it may include formulas, math love mantras, or anything that helps). The final exam is cumulative. No electronic devices are permitted on the exams. Makeups for missed exams only with written medical excuse.

Special accommodation: Students requesting special accommodation for exams must first register with the Dean of Student Office. The Dean of Student Office will provide documentation to the student who must then provide this documentation to me when requesting accommodation.

Student honor code: Zero tolerance to any kind of cheating on written assignments (such as use of any unauthorized written or printed notes, copying solutions from your class mates, and similar). When caught cheating, the course grade is an F, no exception.

Homework

Homework assignments will contain problems from the textbook and additional problems posted in the homework page. Homework is not turned in. Some of the homework problems will be discussed in class. Solving these problems is essential for understanding the course and attaining a good grade. Do homework regularly as it makes nearly a half of your grade (via tests).

Grading

Each assignment is graded out of 100 pts (if no extra credit problem is offered). All regular problems are worth the same, that is, each problem gives you 100/N pts, N is the number of problems in the assignment, when solved correctly. There is a small partial credit for incomplete solutions. In your course grade, the exam average counts 80% and the final exam counts 20%.

$$G = 0.8 EA + 0.2 F$$

where $EA = (E1+E2+\dots+E6)/6$ is the exam average and F is the final exam score.

Extra credit: One extra non-standard question in all exams, if answered correctly, adds 10-20 pts toward your assignment score. One extra non-standard problem will be given in the final exam. The perfect score can therefore exceed 100 pts when the extra credit question is correctly answered.

Grading Scale

The grade thresholds

A: G>85; A-: G>80; B+: G>75; B: G>70; B-: G>65; C+: G>60; C: G>55; C-: G>50; D+: G>45; D: G>40; F: G<40

If your score on every assignment exceeds 90 during the semester, the regular final exam is not mandatory. Instead you may take a take-home exam on the very last day of classes and turn it in next day or later (time and place will be announced). Its score counts as the final exam score.

Attendance and Late Policy

No credit for class attendance. You may leave or come any time without asking my permission. However the class attendance is strongly recommended as the material will be presented in the order different from that in the textbook. Also, examples relevant for written class assignments will be discussed along with some of homework problems.

