Outline for Math 392 Section 2
Ordinary Differential Equations
Spring 2006

Meetings: MWF 11:30-12:20 in SH 108

Instructor: Guram Bezhanishvili

Office Hours: MWF 12:25-1:25

Office: WH 203

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Prerequisite: C or better in Math 192.


Objectives: The goals are to present the basic concepts of ordinary differential equations, and their applications. We emphasize analytical, numerical, and qualitative aspects of ordinary differential equations.

Material: We cover portions of the first five chapters of the text. For the most part, these will be covered in the order they appear. Additional material will be covered as time permits.

Grades:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Homework</td>
<td>20%</td>
</tr>
<tr>
<td>Tests</td>
<td>50% (2 tests, 25% each)</td>
</tr>
<tr>
<td>Cumulative Final Exam</td>
<td>30%</td>
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Homework: Homework will be assigned routinely and a sample of exercises will be collected periodically for grading. To succeed in this course, daily work on practice problems must be done. Exams will test both conceptual understanding and quantitative manipulations. Practice will build the required critical thinking and problem solving skills required on the exams. A student who can complete all homework problems will have a good grasp of the course material, and many of the questions on the tests and final exam will be of a similar nature to those assigned as homework. You are welcome to discuss the homework problems with other members of the class, and you may hand in your solutions in pairs (i.e. one submission bearing two names). Homework must be written up in a comprehensible way. I will not accept late
assignments without a medical certificate or other university approved excuse within a reasonable time of the missed work.

**Tests:** There will be two tests during class time. The first test will cover the first two chapters and will be given before the spring break. The second test will cover chapters three, four, and parts of chapter five and will be given in late April.

**Missed Test Policy:** Students must notify the instructor before an exam is missed in order to qualify for a make-up exam. Failure to do so will result in a “0” for any missed exam. The only valid excuses for missing an exam are documented illness, death in the family, or required participation in any university related function. Supporting documentation is required.

**Cumulative Final Exam:** The final exam for Math 392 will take place on Monday May 8th, 10:30 – 12:30 in SH 108.

**Withdrawals and Incompletes:** You have the primary responsibility for withdrawing from the course. I will authorize the secretary in the Math Office (SH 236) to sign drop slips for me, in case I am not available. The last date to drop with a “W” is Thursday, March 16th. Under University policy, an I grade is allowed only if a student has passed the first half of the course, and is precluded from completion of the second half of the course by a documented illness or family crisis.

**Policies:** Students are expected to attend every class and show up on time. I also expect students to write clear prose and show some mathematical maturity in the work they turn in.

**Important Notes:**

- At the end of the final examination, the course is over, and there are no more opportunities to submit additional work.
- I will not compose extra credit assignments for students who want to try to compensate for poor results in another component of the course.
- Feel free to ask questions in class.

**Disabilities:** If you have or believe you have a disability, you may wish to self-identify. You can do so by providing documentation to the Services for Students with Disabilities (SSD) office in Corbett Center Room 244 at 646-6840. Appropriate accommodations may then be provided for you. If you are already registered with the SSD office, please make sure that I have received a copy of your “Accommodations Memo” from the SSD within the first two weeks. It is your responsibility to inform your SSD representative or me if the services or accommodations provided are not meeting your needs.