Syllabus for MA214-002 Fall 2011

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MA 214 Section 2

Lecture
Instructor  Ken Kubota
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E-Mail  kubota@uky.edu
Office Hours  MWF 12-1
Math/Sciences Hours  MWF 9 CB337

In addition to normal Office Hours and Math/Sciences Hours, you can also make appointments to see the instructor or just drop by his office. Also, if you feel that a group problem session is needed, there will be two examinations scheduled during the semester and will likely be in-class. In addition, there will be a comprehensive final examination. The class decided that there would be an in-class final exam as it is the instructor's belief that students learn best in a learning environment with an instructor present.

Exams

<table>
<thead>
<tr>
<th>Exam</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>Fri 10/14 5:00-9:30</td>
<td>CB 337</td>
</tr>
<tr>
<td>Exam 2</td>
<td>Cancelled</td>
<td>CB 337</td>
</tr>
<tr>
<td>Final</td>
<td>Wed 12/14 6:00-10:00 A.M</td>
<td>CB 337</td>
</tr>
</tbody>
</table>

Generalities: MA214 is a first course in differential equations and assumes that one has already had three semesters of calculus. Its prerequisite is MA 213 (Calculus III).

Credit: MA214 carries three credit hours.

Instructor and Class Meetings: Lectures are MWF 9:00-9:50 in CB 337. Attendance at all lectures is required.


Homework: Homework will be assigned and posted on the MathClass website (www.mathclass.org). Some homework will be hand graded and others will be machine graded using the math and some computer computation will be a required part of the course, and will be graded primarily using a JavaScript calculator.

Examinations: There will be two examinations and one final exam. The examinations will typically be scheduled during a lecture, the date being announced at least a week in advance. Each of the lectures, recitation, and homework for that exam. However, students are responsible for all material covered up to that exam, including material from previous exam periods. The final will be a cumulative exam and will be hand graded by the instructor whose primary concern will be an evaluation of this understanding of the material communicated by the student's work. Students examining will receive a grade based on their performance in the exam and the student's work. Students receiving a grade of 0 in the exam will receive a failing grade. The instructor reserves the right to give incomplete grades in cases of illness or other extenuating circumstances.

Course Topics: The course will study differential equations, primarily methods for obtaining exact solutions, however numerical and graphing techniques will be introduced to provide additional information. Material in the course is also covered in the textbook. Here is a brief list of the main topics:


b. Chapters 4, 5 and 6: Linear Second Order (and higher) differential equations, homogeneous and inhomogeneous equations. Wronskians. Laplace transforms and applications to vibrations.

c. Time permitting, selected topics and applications of systems of differential equations from Chapters 7 and 8.

Grades: There are a total of 400 points to be earned in the course. The grading scale is:

A At least 90% or at least 360 points
B At least 80% or at least 320 points
C At least 70% or at least 280 points
D At least 60% or at least 240 points
E Below 50% or below 240 points

These points can be earned through the following activities:

<table>
<thead>
<tr>
<th>Homework and other projects</th>
<th>100 points</th>
<th>25% of course grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams and Final</td>
<td>300 points</td>
<td>75% of course grade</td>
</tr>
<tr>
<td>Total</td>
<td>400 points</td>
<td>100% of course grade</td>
</tr>
</tbody>
</table>

The above point distributions are nominal and approximate, they may need to be tuned during the semester.

Modified 7/18/2008 12:55

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