MATH 274 - 02, Differential Equations  
Fall 2013

MWF 12:00 - 12:50 pm
Museum Building 205

Instructor: Dr. Laurie Battle
Office: MUS 104
Office hours: MWF 10:00 – 10:50 am
Email: LBattle@mtech.edu
Phone: 496-4857

Prerequisite: MATH 273 Multivariable Calculus (C- or better)


Course Content: A study of first order and linear higher order differential equations, numerical techniques, and the Laplace transform, with various applications. We will cover sections 1.1-1.3, 2.1-2.8, 3.1-3.8, 6.1-6.5, and 5.1-5.6.

Grading: The course grade will consist of the following:
- 3 quizzes (the lowest will be dropped; the average of the other two counts 15%)
- 3 exams (the lowest grade will count 12%, the other two grades will count 24% each)
- Final exam (cumulative, will count 25%)

The grading scale is as follows:

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<th>Grade</th>
<th>Percentage</th>
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<tr>
<td>A</td>
<td>92-100</td>
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<td>A-</td>
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<td>D</td>
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<td>D-</td>
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<td>B+</td>
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NO EXTRA CREDIT

Homework: Exercises will be assigned as homework for most sections covered. These are for your own study and are not to be turned in. The best way to prepare for exams is to complete and comprehend the homework assignments and not to get behind.

Quizzes: The quizzes are an opportunity for you to prepare for exams. The date of each quiz will be announced in class and on Moodle at least one week in advance. NO MAKE-UP QUIZZES WILL BE GIVEN, but the lowest quiz grade will be dropped.

Exams: The date of each exam will be announced in class and posted on Moodle at least one week in advance. NO MAKE-UP EXAMS WILL BE GIVEN. If you miss an exam, that grade will be replaced by your grade on the final exam. If you miss a second exam, that grade will be zero.

Final Exam: Wednesday, December 18, 8:00 – 10:00 am, in our classroom
Calculators: The following FE approved scientific calculator may be used on quizzes and exams:
* Casio fx-115 (all models)
* Hewlett Packard HP 33s and HP 35s
* Texas Instruments TI-30X and TI-36x (all models)
Programmable and more advanced calculators (including graphing calculators) are not allowed. Please see the instructor if you are unsure about your calculator.

Moodle: Course information will be available on Moodle (MYMTECH), including homework assignments, dates of quizzes and exams, and grades.

Expectations:

- Attend class and be actively involved. This means reasoning through the material being presented as well as asking and answering questions during class.

- Read each section in the text before or immediately after it is covered in class. In particular, read the example problems before attempting the homework exercises.

- Complete the homework exercises so that you have a full understanding of each solution. If you require outside help to solve a particular problem, select additional related problems to work until you can complete one of that type on your own. The homework for each section should be completed before the class moves on to the next section.

- Prepare for exams by reviewing the relevant material and working problems from scratch. Rather than reading solutions to problems, work them on your own first. Then compare your answer to the solution in your book or notes.

- Seek assistance from peers and/or the instructor if you encounter difficulties with the material.

- Academic integrity: Take pride in your work and yourself. All quizzes and exams should be your own work, and you may use only the resources that are approved by the instructor. Copying from or deliberately aiding another student is not permitted. Penalties range from receiving an F on that assignment to receiving an F for the course.