MAT 322  
Differential Equations  
Spring 2016  
Section 1  

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Phone: 846-4515  
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Office Hours

<table>
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<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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<td>9:00-9:50</td>
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Course Designation

MAT 322. Differential Equations. Linear differential equations with constant coefficients; equations of second order with geometric and physical applications; approximate solutions; operators. Prerequisite or corequisite: MAT 254. 3

Text


General Course Objectives

The primary purpose of this course is to teach the student to solve differential equations and to model real-world situations with differential equations.
Subject Matter to be Studied

1. First-order differential equations
2. Second-order linear differential equations
3. Higher-order linear differential equations
4. Laplace transforms
5. Infinite series methods
6. Systems of linear differential equations
7. Applications

Major Student Activities

The student will read assignments and solve homework problems.

Evaluation and Grading

Points for the course will approximate the following:

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<table>
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<tbody>
<tr>
<td>3 1-hour tests</td>
<td>150 points</td>
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<tr>
<td>Homework</td>
<td>250 points</td>
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<tr>
<td>Final Exam</td>
<td>100 points</td>
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Letter grades are guaranteed according to the following percentage of points:

<table>
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<th>Percentage</th>
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<tr>
<td>90% or above</td>
<td>A</td>
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<tr>
<td>80% to 89%</td>
<td>B</td>
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<tr>
<td>70% to 79%</td>
<td>C</td>
</tr>
<tr>
<td>60% to 69%</td>
<td>D</td>
</tr>
<tr>
<td>Below 60%</td>
<td>F</td>
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There will be at least one question on each test that requires you to provide a written explanation of a concept. Evaluation of the answer to this question will include mathematical content, spelling, grammar, and sentence construction.

Attendance

Attendance policy for this class is the University policy. The maximum number of absences in this class (excused and unexcused) is 7. A student who exceeds 7 absences has cut out of the class and receives a grade of F for the course.

Homework

Homework will be taken up and graded. Unexcused late homework will not be accepted.
If a student must miss class due to a university function, homework due for that day is expected to be turned in ahead of time. The solutions to differential equations can be verified. Therefore no credit will be awarded for solutions that are incorrect. If you fail to check your answers, your paper will be returned with instructions to correct your work, and you will not receive full credit for your work.

Classroom Policies

1. Do not eat or smoke in the classroom.
2. Do not bring guests, including children to class.
3. Come to class on time.
4. Be prepared to start class at the scheduled time. Have paper, pencil, book, homework, etc., out and ready.
5. Calculator use is permitted on all homework assignments and tests.
6. The computer-algebra software Derive may be used to check solutions to differential equations.
7. Be sure to show all work on homework assignments and tests. No partial credit can be given if no work is shown.
8. Cheating and plagiarism are not tolerated. If it is established that a violation has occurred, the penalty will be a zero on the test, examination, or paper in question.
9. If a student has a disability that qualifies under the Americans with Disabilities Act and requires accommodation, he should contact Dr. Richard Houston, ADA Coordinator at 846-4690.

Important Dates

Students who remain in the class after January 26 and who then elect to drop this course will receive a grade of W if passing or a grade of F if failing the course at the time of the drop. A drop is not effective and complete until the drop slip has been signed by all parties designated on the drop slip and turned in to the registrar’s office. No course may be dropped after April 29. If you plan to audit this course you must notify the instructor by January 25. You will not be allowed to change your status from credit to audit after this date. The final examination for this course will be given Thursday, May 5, 2016 at 8:00 am. That is when it must be taken.