Spring 2004
MATH 315-01: Linear Algebra & Differential Equations

MW 11:00-11:50am, 223 College Hall
TTh, 10:50-11:40am, 309 Canevin Hall

Instructor: Dr. Stacey Levine

Email address: sel@mathcs.duq.edu

Office: 405 College Hall

Office phone: 412-396-5489

Office hours: MW 1:30-3:00 pm or by appt

Text: Linear Algebra and Differential Equations, by Peterson and Sochacki

Prerequisites: You must have passed Math 116 (Calculus II) prior to enrolling.

Important Web Pages: You should check all of these sites regularly (at least once a week), as there may be minor changes throughout the semester. All changes will also be announced in class.

(1) http://blackboard.duq.edu

Announcements, assignments, course documents, the discussion board, exam dates etc. can be found on blackboard. You are expected to log in and check announcements at least once a week.

Username: The first part of your Duquesne University email address. For example, if your duquesne address is name123@duq.edu, then your username is name123.

Password: The first letter of your last name in lower case and your full social security number without spaces or hyphens (you should change your password under 'student tools' once you’ve logged on).

(2) http://www.mathcs.duq.edu/~sel/315spring04/spring04hw.html

This is an up to date homework list which contains all of your assignments. You should check this page regularly, as there may be slight changes throughout the semester.

(3) http://www.mathcs.duq.edu/~sel/315spring04/spring04sch.html

This is an up to date schedule containing the dates of all quizzes and exams. You should check this page regularly, as there may be slight changes throughout the semester.
Topics to be Covered: Systems of linear equations, vectors and matrices, determinants, vector spaces, linear transformations, eigenvalues and eigenvectors, first order differential equations, higher order and systems of linear differential equations, differential operators, Laplace transforms

Tentative Schedule: A tentative calendar can be found on the website listed on the previous page. This calendar includes the dates of all exams and quizzes. There may be minor changes to this schedule, so you should check this website on a regular basis.

Attendance: Each student is responsible for all of the material covered during class. This includes lecture notes, homework assignment due dates, material for each quiz and exam, and any important announcements. Attendance is not a factor in your final grade, however, missing class is never an excuse for not knowing any of the above mentioned material. In the case that you are forced to miss class due to a verifiable medical emergency, contact me as soon as possible and I will let you know what we covered. Otherwise, you are solely responsible for obtaining the information that you missed. Important announcements will often be posted on blackboard, but it’s not guaranteed that everything will be posted.

Homework: Students should read the relevant sections of the text prior to the lecture. Homework problems will be assigned for each lecture. These represent the minimum number of problems you should do in each section and serve together with lecture notes as a basis for questions on the quizzes and exams. All homework assignments will be posted on the website listed on the previous page.

Quizzes / In-Class Worksheets: There will be 10 quizzes. The questions will be based on lecture notes and homeworks. There may be several occasions throughout the semester which I will give unannounced in-class worksheets. The grades from these worksheets can be used to replace your lowest quiz grades. There will be NO make-up quizzes or worksheets except in the case of a verifiable medical emergency.

Exams: There will be 4 in class exams and a final exam. Exam questions will be based on lecture notes and homeworks. There will be NO make-up exams except in the case of a verifiable medical emergency.

Grades: You can earn up to 650 points which will be determined by the following criteria.

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<thead>
<tr>
<th>10 Quizzes/worksheets</th>
<th>100 points (10 points each)</th>
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<tbody>
<tr>
<td>4 Exams</td>
<td>400 points (100 points each)</td>
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<tr>
<td>Final Exam</td>
<td>150 points</td>
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Grades will be assigned as follows:

<table>
<thead>
<tr>
<th>Average</th>
<th>A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>D</th>
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<tbody>
<tr>
<td>points</td>
<td>604↑</td>
<td>585↑</td>
<td>565↑</td>
<td>539↑</td>
<td>520↑</td>
<td>500↑</td>
<td>455↑</td>
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<td>93%↑</td>
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<td>87%↑</td>
<td>83%↑</td>
<td>80%↑</td>
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