Differential Equations Section 01 Syllabus: Winter 2008

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Contact - email is best</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edmond J. Nadler</td>
<td><a href="mailto:edadler@wccnet.edu">edadler@wccnet.edu</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Office</th>
<th>Office Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA 178</td>
<td>Tu, Th 12:00 - 1:00 pm</td>
</tr>
</tbody>
</table>

Class Meeting Schedule & Location
MTH 295 section 01 (CRN 11936): Tuesday & Thursday 10:00–11:55 am, room LA 252

Description: This course provides an introduction to the concept of differential equations which is necessary for students in engineering, physics, and other science majors. Topics include methods for solving ordinary differential equations, numerical methods, Laplace transforms, and techniques for solving systems of linear differential equations and their applications. A graphing calculator is required for this course.

Prerequisites: MTH 197 and MTH 293 (minimum grade of C). A thorough knowledge of techniques of differentiation (MTH 191), and a basic knowledge of techniques of integration (MTH 192) will be assumed throughout.

Requirements:
Calculator: TI-89 graphing calculator

Policies and Procedures [Instructor reserves the right to make appropriate modifications.]

Attendance: Regular, prompt attendance is required and necessary for success in this course. You are responsible for all assignments and material, including topics covered in class and not found in the text. Office hours are not a substitute for missed classes.

Credit Standard: You are required to show full supporting work for all problems. The work is to be based upon material covered. Credit is awarded based upon the completeness and appropriateness of this work, not just the answer. A correct answer with insufficient or inappropriate work might receive little or no credit.

Homework will be assigned daily or nearly so, and is due at the beginning of class, after which it will be discussed. No late homework will be accepted. Homework will be graded based on a small selection of the problems (not announced in advance) plus a quick overall check. It is crucial to your success in this course that you keep up with the homework.

Tutoring is available in the Math Resource Center, LA 258.

Grading:
Course grade is based on 4 tests and daily homework assignments:
25%: homework assignments
75%: 3 (of 4) test scores; the lowest test score will be dropped
No make-up tests will be given.

The planned scale is: A: [93-100%], A-: [90 – 93%), B+: [87 – 90%), B: [83 – 87%), B-: [80 – 83%), C+: [77 – 80%), C: [73 – 77%), C-: [70 – 73%), D+: [67 – 70%), D: [63 – 67%), D-: [60 – 63%].

Course registration changes (credit/audit status, withdrawal, etc.) must be completed according to WCC policies and are each student’s responsibility. Consult the WCC Bulletin for policies and deadlines. The instructor will permit you to withdraw from the course through the last day of class if you notify him of this need.

Special needs: If you have special learning needs, please inform the instructor and contact Learning Support Services, LA 104, 973-3342.
**Tentative Schedule** [Instructor reserves the right to make appropriate modifications.]

Introduction & Chapter 1: 1st order equations: 3 ½ weeks

> Test #1: February 7

Chapter 2: higher order linear equations: 4 weeks

> Test #2: March 13

Chapter 4: Laplace transform methods: 3 weeks

> Test #3: April 3

Chapter 5: linear systems, and time permitting, a bit of Chapter 6: numerical methods: 4 weeks

> Test #4: May 1