

Syllabus: MATH 341, Spring 2009

Instructor: Brian R. Hunt, bhunt@math.umd.edu, x55108

Section Number: 0101

Office Hours: MW 10-11, Th 2:15-3:15, MTH 4408

Class Time: MWF11-12:15

Class Web Page: <http://www.math.umd.edu/~bhunt/341/> Classroom: MTH 00306

Information on the class web page supersedes any information on this sheet.

Texts

Martin Braun, *Differential Equations and Their Applications: An Introduction to Applied Mathematics*, **4th edition**, ISBN 978-0-387-97894-9.

Susan J. Colley, *Vector Calculus*, **3rd edition**, ISBN 978-0-1-3185874-9.

Course Description

This class will cover Chapters 1–5 of Braun's book, which includes the material done in MATH 246 (Ordinary Differential Equations), plus some material from MATH 240 (Linear Algebra). We will first cover Chapter 4 of Colley's book, finishing the material from MATH 241 (Multivariable Calculus) not covered last semester.

Policies and Procedures

Office Hours. Students in my undergraduate classes have priority during my office hours. If you find me talking to someone else when you come, please knock and let me know you are there. You are also welcome to call me during an office hour if you cannot come in person. I may be able to help at other times, but I may also be busy if you call or drop in. Email is fine for logistical matters, especially if you need to miss class, but mathematical questions are better addressed in person or by phone.

Homework and Quizzes. Homework will be assigned weekly but not collected. Instead, on the due dates we will have a brief quiz (closed book, closed notes) with problems selected from the assigned homework. Your job each week is to learn how to do the homework problems, and you are encouraged to consult with each other and any other available resources to solve the problems. Homework problems will not be announced in class; they will be posted on the class web site about one week prior to the due date.

Computer Assignments. Computer assignments involving MATLAB will be given on an occasional basis. On the computer assignments, you may work in groups of at most 3 people; each group will turn in a single printed report and each member of the group will receive the same grade for the assignment.

Academic Integrity. You should know the campus Code of Academic Integrity; see:

<http://studenthonorcouncil.umd.edu/code.html>

In accordance, you are hereby asked to write by hand on every examination and computer assignment the following Honor Pledge and sign your name underneath.

I pledge on my honor that I have not given or received any unauthorized assistance on this assignment/examination.

Collaboration of all kinds is allowed and encouraged on homework from the text. For computer assignments, you may receive assistance with using MATLAB, but otherwise no help from people outside your group. Of course, no collaboration is allowed on quizzes and examinations. No books, notes, or any other information-storing device except your brain may be used on quizzes; however, examinations will be open book, open notes.

Exam Schedule and Final Grade. Projected examination dates and the recipe for your final grade are as follows.

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|-------------------------|---------------------------------|-----|
| Quizzes: | | 10% |
| Computer assignments: | | 10% |
| 1st midterm examination | Friday, February 27 | 23% |
| 2nd midterm examination | Monday, April 6 | 23% |
| Final examination | Saturday, May 16 (8:00-10:00am) | 34% |

Your 3 lowest quiz scores will be dropped, and there will be no make-up quizzes. Absence from an examination will be excused only in accordance with campus policy; see:

<http://www.testudo.umd.edu/soc/atedasse.html>

The reason for absence must be unavoidable, documented, and reported to me as early as possible. Students with disabilities that may require accommodation should inform me now.