Syllabus for Math 228

Brian Hall and Roxana Smarandache

Fall, 2000

Tests: There will be three tests during the semester.
Tuesday, September 19
Tuesday, October 24
Thursday, November 16
All will be at 8:00 a.m. The locations are different for the two sections: EART 102 (Hall) and GALV 283 (Smarandache).

Homework: Homework will be handed in on Fridays in the lecture. Homework must be turned in to the instructor or in the instructor's mailbox, by the end of lecture on Friday. accepted*Late homework will not be accepted except for university-approved reasons. Homework will be returned in the tutorial on the following Thursday.*

***Final**: The final exam is on **Friday, December 15**, from 1:45–3:45 p.m. You may reschedule your final only for reasons given in the university policy, such as more than three exams in a 24-hour period or conflict with another final.*

***Mathematica assignments**: There will be four assignments using the computer-math program Mathematica. Dates will be announced in class.*

***Tutorial**: Attendance in the tutorials is expected for all students. Some problem-solving techniques may be introduced only in the tutorial.*

***Texts**: Elementary Linear Algebra with Applications (3rd Edition), by Richard Hill.*
Elementary Differential Equations and Boundary Value Problems (7th Edition), by Boyce and DiPrima.
Please make sure that you get the seventh edition of Boyce and DiPrima.

***Grading**: The course grades will be based on a total of 550 possible points, assigned as follows:*

Tests 1, 2, 3 (100 points each) =300 points

Homework and Mathematica =100 points

Final exam =150 points

***Honor code**: All of your work is bound by the provisions of the Notre Dame honor code.*

Approximate schedule.

From Hill, Elementary Linear Algebra:

Chapter 1: Sections 1.1, 1.2, 1.3, 1.4, 1.5 (5 lectures)
8/23, 8/25, 8/28, 8/30, 9/1

Chapter 2: Sections 2.1, 2.2, 2.4 (2 lectures)
9/4, 9/6

Chapter 3: Sections 3.1, 3.2, 3.3, 3.4 (4 lectures)
9/8, 9/11, 9/13, 9/15

Review: 9/18
Test I: 9/19

Chapter 3: Sections 3.5, 3.6, 3.7, 3,8 (4 lectures)
9/20, 9/22, 9/25, 9/27

Chapter 4: Sections 4.1, 4.2, 4.3, 4.4, 4.5, 4.7 (6 lectures)
9/29, 10/2, 10/4, 10/6, 10/9, 10/11

Chapter 5: Section 5.1 (1 lecture)
10/13

Fall Break: 10/16–10/20
Review: 10/23
Test II: 10/24

Chapter 5: Sections 5.2, 5.3
10/25, 10/27

From Boyce and DiPrima, Elementary Differential Equations:

Chapter 1: Sections 1.1, 1.2 (1 lecture)
10/3

Chapter 2: Sections 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2,8 (6 lectures)
11/1, 11/3, 11/6, 11/8, 11/10, 11/13

Review: 11/15
Test III: 11/16

Chapter 3: Sections 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.8, 3.9 (8 lectures)
11/17, 11/20, 11/22, 11/27, 11/29, 12/1, 12/4, 12/6

Final exam: 12/15