Course	Dates	Time	Place
Math 251:F1	6/22/09 – 8/12/09	10 : 00 – 11 : 50am	Hill 525

Instructor: Scott Schneider
Course website: http://www.math.rutgers.edu/∼scottsch/251.html.
Email: scottsch@math.rutgers.edu
Office: 608 Hill Center
Office hours: by appointment (and I will usually be available immediately after class)

Text: *Calculus: Early Transcendentals*, by Jon Rogawski

Course Description: In this course we will study the standard model for 3-dimensional Euclidean space as well as curves and surfaces inside of it, and develop the calculus of vector-valued functions of a single real variable, real-valued functions of several real variables, and vector fields. Despite the many analogies we will encounter with concepts from Calc 1, the material will be new and challenging, and will provide a foundation for further study in physics, engineering, linear algebra, geometry, and many other areas of higher mathematics. We will primarily emphasize computational techniques and the visualization of 3-dimensional geometric constructions.

Course Structure: There will be two 80-minute midterms and a cumulative 3-hour final exam, all written during regular class time. Homework will be assigned every class but will not be collected, unless it becomes necessary to do so. There will be quizzes almost every class, and the questions on them will be taken directly from the homework. This is to encourage both class attendance and time spent on homework. It is essential that you do both in order to digest the material. With 27 lectures in 8 weeks, this class will move fast, so it is important to stay caught up. I will drop your two lowest quizzes, but there will be NO quiz make-ups. There will be four Workshops and four Maple Labs. The point distribution will be as follows:

Quizzes: 20%	Workshops: 5%	Final Exam: 30%
Midterms: 20% each	Maple Labs: 5%	

Here is a tentative schedule of classes to be covered:

Day	Date	Sections	Day	Date	Sections
Mon	6/22	12.1, 12.2	Mon	7/20	15.1
Tue	6/23	Maple Lab*	Tue	7/21	15.2
Wed	6/24	12.2, 12.3, 12.4	Wed	7/22	12.7, 12.8
Thur	6/25	12.4, 12.5	Thur	7/23	15.3, 15.4
Mon	6/29	13.1, 13.2	Mon	7/27	15.5
Tue	6/30	13.2, 13.3	Tue	7/28	16.1
Wed	7/1	13.3, Workshop	Wed	7/29	16.2
Thur	7/2	13.4, 13.5	Thur	7/30	Second Midterm
Mon	7/6	14.1	Mon	8/3	16.3
Tue	7/7	14.2	Tue	8/4	16.4
Wed	7/8	14.3	Wed	8/5	16.5
Thur	7/9	14.4, 14.5	Thur	8/6	17.1
Mon	7/13	14.5, 14.6	Mon	8/10	17.2
Tue	7/14	First Midterm	Tue	8/11	17.3
Wed	7/15	14.6, 14.7	Wed	8/12	Final Exam
Thur	7/16	14.7, 14.8			

*Meet in ARC 116 for an introduction to Maple.