

# Lab Syllabus for Calculus II (MATH 142), Fall 2012

## Department of Mathematics University of South Carolina

### **Lab Overview**

The weekly lab meetings are an integral part of Calculus II (Math 142). These labs are designed with (at least) two purposes:

- to provide hands-on activities that will further your understanding of calculus.
- to provide an introduction to and instruction in the use of modern computer software (Maple).

### **Lab Materials**

Calculus Text: Stewart, James, *Calculus, Early Transcendentals*, 6<sup>th</sup> Edition.

Optional Maple Reference book: Yasskin, Phillip B (and others), *Calculus, Early Transcendentals*, 4<sup>th</sup> Edition

All lab materials can be downloaded from the WWW. The lab homepage is

<http://www.math.sc.edu/calclab/142L-F12/>

The schedule/assignments will be updated weekly. The Maplets for Calculus link points to a comprehensive list of maplets for use in calculus courses. (You are encouraged to add one or more of these URLs to your list of Favorites.)

**Note: Please print a copy of the current lab before class each week.**

### **Access to Maple 16**

We will use the computer labs in MS network maintained by the Department of Mathematics. **Each student may print up to 150 pages free of charge per semester.** (The network will not accept the Carolina Card, so you will have to print elsewhere if you exceed your quota.) Computers in LC 102, 124, 303A, and 401 are part of the MS network. Maple 16 should also be available on computers in other academic computing labs, in the open labs in the residence halls, and in the main library. If you would like to have Maple 16 installed on other University owned or leased computers, please discuss this with your TA. You may have to pay for pages printed from computers that are not in the MS network. The MS labs are open M-F from 8:00am to 5:00pm. After-hours/weekend access to LC 303A is available (ask your TA for details).

Students in this course may download a full copy of Maple 16 for \$45 or receive the software on a CD for \$75. All purchases can be made online at <http://webstore.maplesoft.com/> You will need to use the purchase code ED-UOSC1213-P9N

### **Grading**

Your lab grade will be based on one lab project, two (2) hour quizzes, weekly assignments, and your attendance.

|                    |                  |
|--------------------|------------------|
| Hour Quizzes       | 30 points        |
| Weekly Assignments | 40 points        |
| Project            | 20 points        |
| <u>Attendance</u>  | <u>10 points</u> |
| Total              | 100 points       |

Each lab missed (after the first absence) will lower your attendance grade by two (2) points.

### **Attendance Policy**

Attendance at every class meeting is important – and expected. Students missing more than 10% of the class meetings (2 labs) can have their overall lab grade lowered. *Do not forget to sign the attendance form each week!*

### **Academic Honesty**

Cheating and plagiarism will not be tolerated in the labs. You may discuss lab assignments with others, but do not copy work from another student, from a book, or from the Internet. Violations of this policy will be dealt with according to University guidelines. You can find the University Honor Code at <http://www.sc.edu/academicintegrity/>