

# Calculus I

Math 125-109

MWF 10:15-11:05, ILB 360

R 9:30-10:20 ILB 370

**Instructor:** Prof. Josh Barnard

**Office:** ILB 306

**Phone:** 460-6755

**Office Hours:** MW 9:30-10:15; MR 1:30-2:30

**Course webpage:**

**Email:** [jbarnard@jaguar1.usouthal.edu](mailto:jbarnard@jaguar1.usouthal.edu)

[www.southalabama.edu/mathstat/personal\\_pages/jbarnard/F08-125/](http://www.southalabama.edu/mathstat/personal_pages/jbarnard/F08-125/)

**Prerequisite:** MA 113 or MA 115 or placement test score of 85 or more. Credit for both MA 120 and MA 125 is not allowed.

**Textbook:** *Calculus: Early Transcendentals*, by Jon Rogawski, W. H. Freeman and Company (2008).

**Course Description:** This course provides an introduction to calculus with emphasis on differential calculus. Topics include limits of functions, derivatives of elementary functions, application of differentiation to curve sketching and optimization problems, and examples in the natural sciences and economics. The course concludes with an introduction to definite integrals and the fundamental theorem of calculus. We will cover some of chapter one, most of chapters two, three, and four, and some of chapter five.

**Announcements and Handouts:** The course webpage has an announcement section and a handout section. Both of these should be checked regularly, and you are responsible for any information found there. In particular, the requirements and policies for this course may be modified as circumstances dictate; such changes will be provided to students in class and noted on the webpage.

**Schedule:** A course schedule is posted online, and will be updated as the semester progresses. You should read the indicated sections of the book before the relevant class. You should also read through it again before beginning work on the homework, which is also posted on the schedule.

**On-Line Resources:** New textbooks come with access to CalcPortal. This includes a digital version of the text and of the solution manual, interactive applets, chapter quizzing, etc.

**Homework:** Homework problems will be assigned each day in class, and also posted online. These assignments will not be collected, but in order to do well in the class, you must keep up with the daily assignments.

**Quizzes:** Quizzes will be given weekly in class, generally on Fridays. Quiz problems will be similar to homework problems. There will be no make-up quizzes, but the lowest two will be dropped.

**Tests:** There will be three in-class test and a two-hour final exam. Test 1 will cover chapters one and two, Test 2 will cover chapter three, and Test 3 will cover chapter four. The final will be cumulative, but the material in chapter five will be emphasized.

The dates of the in-class tests will be announced in class and posted online at least one week in advance.

**Grading:** Grades will be determined according to the following:

Quizzes — 15%; Tests — 20% each; Final — 25%

**Policies:** Calculators are not required for this course. If you have any questions or problems, you are encouraged to come by my office during office hours, or make an appointment to come by some other time. Email is the best way to contact me. The last date to withdraw from a course is Friday, October 24th. Please speak to me if you are getting behind. If you have a specific disability that qualifies you for academic accommodations, please notify me and provide certification from the Office of Special Student Services. This office is directed by Ms. Bernita Pulmas and is located in the Student Center, Room 270, Phone 460-7212. Students are assumed to be familiar with the current Academic Misconduct Code, to which we will strictly adhere.