

Math 122: Calculus for Business Administration and Social Sciences

Section 002, Spring 2015

M/W/F 09:40–10:30 pm, Gambrell 124

Instructor: Danny Rorabaugh
rorabaug@email.sc.edu

Websites: <http://blackboard.sc.edu>
<http://wileyplus.com>

Office Hours: LeConte 105: Monday 11 am – 1 pm
LeConte 123B: Thursday 10 am – noon

S.I. Leader: Heather Pusey
hpusey@email.sc.edu

I. Prerequisites

Qualification through the Math Placement Test or through a grade of C or better in MATH 111 or 111I.

II. Learning Outcomes

Upon successful completion of this course, students should be able to:

- Recall basic mathematical terms related to elementary algebraic, exponential, and logarithmic functions, and derivatives and integrals of such functions and express these terms in correct context.
- Apply the methods of calculus to solve applications involving maxima, minima, rates of change, motion, work, and area under a curve.
- Verbally interpret data given as graphs, tables, and equations and put into words the relationship between a function and its derivative or integral given in these forms as well.
- Utilize a graphing calculator to solve problems, locate maxima and minima of a function, and analyze change in a function.

III. Textbook and Materials

The textbook for this course is *Applied Calculus* (5th Edition) by Hughes-Hallett, Gleason, Lock, Flath, et al. Students will need a graphing calculator and regular internet access. Announcements are often sent out via Blackboard, so a regularly-accessed email address should be used with Blackboard. See also **Calculators** under **Course Policies** and **Homework** under **Assessment and Grading**.

IV. Course Requirements

Students are expected to read assigned sections in the text, complete weekly homework assignments, and participate in lectures, quizzes, and activities each class. Students should check Blackboard frequently for announcements and course documents such as quiz solutions, exam reviews, and worksheets.

V. Course Policies

Attendance and Quizzes

Students are expected to attend every class, arriving on time and staying for the entirety. Instead of taking attendance, there will be a five-minute quiz at the start and/or end of each non-exam class. Students will complete quizzes individually. The lowest 3 quiz scores will be dropped.

Late work and make-up work

Late work will not be accepted. There are *no make-up assignments*. Each student may retake 2 quizzes. The student must notify the instructor of retake intent within 48 hours (2 days) of when the graded quiz was returned to the class.

Missed Exams

Tentative exam dates are found below under **Assessment and Grading**. In general, *no make-up exams will be given*. Exceptions may be made for documented illness or emergency, provided the instructor is notified via email as soon as the student knows they will be missing the exam. *No accommodations will be made for travel plans*. If exam dates conflict with religious observances, the instructor is to be notified in the first week of classes.

Disruptions

Disruptive behavior will not be tolerated. Electronics – except those used for mathematical or medical purposes – *are not permitted during class*.



Distracted kittens from <http://www.lifewithcats.tv/wp-content/uploads/2013/04/aowwry.jpg>

Withdrawal

The last day to drop without a grade of W being assigned is Friday 16 January. The last date to withdraw without a grade of WF being assigned is Monday 02 March.

Calculators

Calculators may be used on quizzes and exams, except as otherwise instructed in class. The TI-83 or TI-84 is highly recommended. Use of the *TI-89*, *TI-Nspire CAS*, or any *calculator with built-in CAS (computer algebra system)* is *prohibited*. You may be asked to clear the memory in your calculator prior to each exam. The instructor will not have a calculator for students to use, so it is recommended that each student bring back-up batteries to exams.

Honor Code

The Honor Code applies to all work for this course. Students should review the Honor Code at <http://www.sc.edu/academicintegrity>. Students found violating the Honor Code will be subject to discipline.

VI. Assessment and Grading

Homework

There will be regular assignments online at WileyPlus.com. Instructions for creating an account can be found under Course Documents in Blackboard. Use your USC email credentials to login at <http://blackboard.sc.edu>.

Assignments from a given week will generally be due Monday or Tuesday the next week. However, it is the student's responsibility to regularly check WileyPlus and to begin working on homework in a timely fashion.

Exams

There will be three exams throughout the semester and a final exam. The final exam date and time is fixed by the university. Exams are tentatively scheduled as follows:

- Exam 1 Monday 16 February
- Exam 2 Monday 23 March
- Exam 3 Monday 20 April
- Final Wednesday 29 April @ 9:00 – 11:30 AM

See the policy for missed assignments, quizzes, and exams under **Course Policies** above.

Grades

Grades will be weighted as follows:

10%	Homework
15%	Quizzes
51%	Exams (three, 17% each)
25%	Final Exam

Letter grades will be assigned based on overall percentage – *not rounded* – using the following scale:

$90 \leq \text{grade} < \infty^2$	A	Astounding Job!!!
$85 \leq \text{grade} < 90$	B+	Bravisimo!!
$80 \leq \text{grade} < 85$	B	Bravo!!
$75 \leq \text{grade} < 80$	C+	Congrats!
$70 \leq \text{grade} < 75$	C	Cool beans!
$65 \leq \text{grade} < 70$	D+	Didn't quite meet expectations.
$60 \leq \text{grade} < 65$	D	Did not meet expectation.
$-\pi \leq \text{grade} < 60$	F	Fell through this time around...

VII. Additional Help

Tutors are available Monday through Thursday from 11 am to 4 pm in the **Math Tutoring Center** in LeConte 105 (www.math.sc.edu/math-tutoring-center).

Tutors are also available through the **Student Success Center**, both **online** (sa.sc.edu/ssc/virtual) and at their **satellite locations** in the dorms (sa.sc.edu/ssc/peertutoring): 7:30–10 pm in Sims Hall, Columbia Hall, and Bates House.

Help is available through **supplemental instruction** (sa.sc.edu/ssc/supplementalinstruction). Our S.I. Leader's contact information is listed at the top of the syllabus.

Students are encouraged to come see me during **office hours** (see top of syllabus) which requires no appointment. Students may also email me to schedule an appointment outside of my posted times.