

# Math 122-023

## Spring 2017

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**Office Hours** TBA

### Course Information

**Course Website** <http://people.math.sc.edu/alicial/teaching/122-S2017/>

#### Meeting Times

Lecture MWF HUMCB 403 10:50am - 11:40am

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

#### Course Text

*Applied Calculus* (5<sup>th</sup> ed), Hughes-Hallett, Gleason, Lock, Flath, et al., Wiley, 2014

**Learning Outcomes** Upon successful completion of the course, students should be able to:

1. 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.
2. Apply the methods of calculus to solve applications involving maxima, minima, rates of change, motion, work, and area under a curve.
3. 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.
4. Utilize a graphing calculator to solve problems, locate maxima and minima of a function, and analyze change in a function.

**Calculators** A graphing calculator is required for this course. The TI-83 or TI-84 is *highly recommended*. Any graphing calculator with a computer algebra system (TI-89, TI-Nspire CAS, or similar) will **not** be allowed on quizzes or exams. Students are expected to bring their calculators to each class meeting.

## Coursework

**Homework** Homework is assigned each class, unless otherwise indicated. Tentative assignments can be found on the course website. Homework will not be graded, but it is in your best interest to correctly complete as many assigned problems as possible. The homework problems are intended to help you understand course material, as well as to prepare you for exams, and are thus vital to your success in this course.

**Quizzes** One quiz will be given each week. Quizzes will, in general, be based off of the assigned homework problems and will give you exposure to the types of questions that will appear on exams. The two lowest quiz scores will be dropped.

**Midterm Exams** Three exams will be given, with the following tentative dates:

<i>Friday, February 10</i>	Sections P.1-P.6, 1.1-1.7
<i>Monday, March 20</i>	Sections 2.1-2.6, 3.1,3.2,3.4,2.5, 4.1-4.4
<i>Friday, April 14</i>	Sections 5.1-5.6, 6.1-6.5, 7.1, 7.2, 7.6

Each exam will be the duration of the class.

**Final Exam** There will be a cumulative final exam given during finals week.

**Late Policy** Late work will not be accepted, and in general **no** make-up exams will be given. Exceptions may be made in the case of a documented illness or emergency, and in this case I request that you contact me immediately for arrangements.

**Supplemental Instruction (SI)** The SI leader for 122-023 is:

*Wes Drawbridge*                      [drawbric@email.sc.edu](mailto:drawbric@email.sc.edu)

Students are encouraged to attend SI Sessions to focus on the most difficult content being covered in class. SI Leaders hold three weekly study sessions that can serve as built-in study time. The schedule is posted on the SSC (Student Success Center) website each week and will also be communicated by the SI Leader.

**Additional Help** Outside of scheduled office hours and SI meeting times, I recommend the following resources for additional help.

- The Math Tutoring Center (LeConte 105) offers free tutoring to students, no appointment is necessary: <http://www.math.sc.edu/math-tutoring-center>
- The Student Success Center: <http://www.sc.edu/success>

- Paul's Online Math Notes: <http://tutorial.math.lamar.edu>

## Grades

Your grade will be calculated according to the following percentages:

Midterm Exams	3 @ 20% each	60%
Final Exam		25%
Quizzes		15%
Total		100%

Grades will be assigned based on the following scale:

A	B+	B	C+	C	D+	D	F
>90%	86-89%	80-85%	76-79%	70-75%	66-69%	60-65%	< 60%

## Expectations

**Attendance** Students are expected to attend every lecture, arriving on time and staying for the duration of the class. Absences may be excused with proper documentation of illness or emergency, and it is the responsibility of the student to provide such documentation in a timely manner. Students are responsible for any missed classes.

**Students with Disabilities** Students with disabilities must register with the Office of Student Disability Services before accommodations can be made.

**Academic Integrity** Students are expected to act in accordance with the *University of South Carolina Honor Code*:

<https://www.sa.sc.edu/academicintegrity/>

Any form of cheating will not be tolerated in this course. Violations of the honor code will be dealt with in a matter consistent with University regulations.

**Classroom Disruptions** To avoid disrupting other students, please silence all electronics, including cellphones, during class. Students who cause significant classroom disruptions can expect to be asked to leave.