MA122—Section 22

Instructor

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Meeting Times

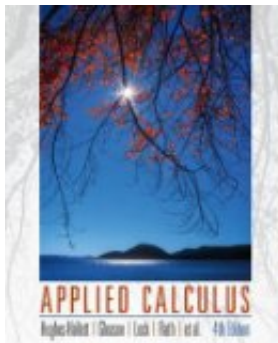**Lectures**: **TTh** 12:30 PM – 1:45 PM Davis 209
Office Hours: **TTh** 2.00 PM — 5.00 PM LeConte 307

Prerequisites

Qualifications through algebra placement or a grade of **C** or better in MATH 111/111L. The deadline to drop/add is Friday, January 13th. The first day in which a "W" grade is assigned is therefore Saturday, January 14th. The last day to obtain a "W" grade or to elect a pass/fail grade is Monday, February 27th. The first day in which a "WF" grade is assigned is therefore Tuesday, February 28th.

Text

Applied Calculus by Hughes–Hallett, Gleason, Lock, Flath et al. **Wiley** 2009 (fourth edition)

Applied Calculus

Calculator

A graphic calculator is required for this course. Either the TI–83 or TI–84 is preferred, and as a matter of fact, highly recommended. A TI–89 or a similar calculator with a computer algebra system is not allowed on examinations and quizzes.

[Texas Instruments TI-83 Plus Graphing Calculator](...)

[Texas Instruments TI-84 Plus Graphing Calculator](...)

Course Structure and Grading Policies

Homework problems will be assigned at the end of each lecture. We will be using WileyPLUS in the course, and the homework will be assigned and completed online. In order to register for WileyPLUS, you need to have a registration code, which should be included with your textbook. If you do not have a registration code, you will need to either return your book and purchase a package that includes a registration code, or you may purchase a registration code separately online at [wileyplus.com](...)

The Registration code includes access to the entire contents of the textbook online, so you may opt to purchase only the registration code and then use the online transcription of the textbook to study. In order to sign up for our section of the course on WileyPLUS, visit

[http://edugen.wileyplus.com/edugen/class/cls251270/](...)

There you will be able to enter the registration code from your textbook and enroll in our section of the course online. Once you have successfully enrolled, use [wileyplus.com](...) to login to your account and complete homework assignments.

The result of your HW assignment has no impact whatsoever over your final grade, but it serves as a guideline to understand the type of problems that you will encounter on your quizzes and tests. Your final score for the course will be computed as follows:

- Quizzes: 15% of the course grade. **Only the 10 best scores are counted.** A ten-minute quiz will be given during selected sessions or through [wileyplus.com](...). There will be no make-up quizzes, since only the best 10 grades count towards the course grade.
- Midterms: each test counts 15%, for a total of 45% of the course grade. There will be three in-class midterm exams tentatively scheduled as follows:

Test #	Date
1	Tue, Jan 31
2	Thu, Feb 23
3	Tue, Mar 27

No make-up tests will be given. Only medical, death in the family, religious or official

USC business reasons are valid excuses for missing a test and must be verified by letter from a doctor, guardian or supervisor to the instructor.

- Final exam: 40% of the course grade. The final exam is scheduled on Tuesday, May 1st, at 2:00 PM.

The course grade will be determined as follows:

GRADE RANGE

A	90%–100%
B+	85%–89%
B	80%–84%
C+	75%–79%
C	70%–74%
D+	65%–69%
D	60%–64%
F	below 60%

ATTENDANCE POLICY: Attendance is mandatory. Penalties to your final grade apply as follows:

- Students missing four sessions without a valid excuse will have their final grade lowered by half a letter grade (e.g. from C to D+).
- Students missing six sessions without a valid excuse will have their final grade lowered by a full letter grade (e.g. from B to C)
- Students missing eight sessions without a valid excuse will have their final grade lowered by a letter–and–a–half (e.g. from A to C+)

Further Information

Some useful information:

- Remember to change your e–mail address on Blackboard if necessary [blackboard.sc.edu]
- **ADA**: If you have special needs as addressed by the *Americans with Dissabilities Act* and need any assistance, please notify the instructor immediately.
- The Math Tutoring Center is a free tutoring service for MATH 111, 115, 122, 141, 142, 170, 221, 222, and 241. The center also maintains a list of private tutors for math and statistics. The center is located in LeConte, room 105, and the schedule is available at the Department of Mathematics website (www.math.sc.edu). No appointment is necessary.
- The **Student Success Center** and one of four **Academic Centers for Excellence (ACE)** are on the mezzanine level of the Thomas Cooper Library and can be reached by phone at (803) 777–0684 or by going online at www.sc.edu/academicsuccess Other ACE locations around campus make access to these resources easy (Sims Hall, Bates House, Columbia Hall). The centers are at the crossroads of services and information about many special resources for stucents, including advice on developing successful study habits, time management, and effective learning strategies as well as availability of tutoring.
- The Supplemental Instructor for this course is Candler Paige. Candler will be holding

three sessions a week in the Humanities Building (HU). Her schedule is as follows:

Mon 7.00 PM HU 317

Tue 5.00 PM HU 405

Wed 8.00 PM HU 317

Learning Outcomes

A student who successfully completes Applied Calculus (MATH 122) will master concepts based on derivatives and integrals of elementary algebraic, exponential and logarithmic functions. Students will be able to solve applications involving maxima, minima, rates of change, motion, work, area under a curve, and volume.

HW Assignments, Quizzes, Exams

- **Tue Jan 10**: 1.1 & 1.2. Introduction to functions. Linear functions. [p.5 #2,3,4,7,8,10,11,12a,13,14,16,23,24a; p.12 #5,6,7,8,14,15]
- **Thu Jan 12**: 1.2 & 1.3. More linear functions. Average Rate of Change. [p.12 #1,2,3,4,12,25; p.22 #12,13,15,16,20,27]
- **Tue Jan 17**: Relative change. Applications of functions to Economics. [p.22 #42--46; p.35 #4,6,8,9,10,11,19,20,22,23]
- **Thu Jan 19**:
- **Tue Jan 24**:
- **Thu Jan 26**:
- **Tue Jan 31**: First Midterm.
- **Thu Feb 02**:
- **Tue Feb 07**:
- **Thu Feb 09**:
- **Tue Feb 14**:
- **Thu Feb 16**:
- **Tue Feb 21**:
- **Thu Feb 23**: Second Midterm.
- **Tue Feb 28**:
- **Thu Mar 01**:
- **Tue Mar 13**:
- **Thu Mar 15**:
- **Tue Mar 20**:
- **Thu Mar 22**:
- **Tue Mar 27**: Third Midterm.
- **Thu Nov 29**:
- **Tue Apr 03**:
- **Thu Apr 05**:
- **Tue Apr 10**:
- **Thu Apr 12**:
- **Tue Apr 17**:
- **Tue Apr 19**:

- **Tue May 01**: 2.00PM Final Exam.