

Math 118 - Honors Calculus I

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Overview. This course is the first in the Honors calculus sequence. There are no prerequisites, but students should be aware that the expectations are higher than in the other two calculus sequences (101-111 and 112-113). In particular, students are expected to know the proofs of the results in lectures, in addition to mastering the calculus techniques (differentiation, integration etc.). Furthermore, more challenging problems will be assigned as homework in addition to the routine ones.

Textbook.

Calculus. Single Variable by James Stewart, 5th edition, Brooks/Cole, 2003.

Syllabus.

Chapters 1-7, but certain sections will be skipped. For instance, in Chapter 6, we will only cover 6.1, 6.2, and 6.4, while in Chapter 7, we will cover 7.1-7.4 and 7.7.

Homework. Homework will be assigned at the end of classes on Tuesday and Thursday. You will be asked, in a random order, to present the solutions at the board during the class on the following Monday. Your answer will be part of your grade, and being unable to present a solution when called upon will affect your final grade. Reading the book is considered part of the homework. The homework represents a bare minimum amount of work needed, so I advise you to have a look at other problems in the book. Active participation and solving the homework problems on your own is encouraged, to help your understanding and to improve your grade.

Grading.

There will be two tests during the semester, in addition to the final exam, which is cumulative. Each of the two tests during the semester will be worth 20% of your grade, the cumulative final is worth 40%. Homework is worth 20%. I urge those of you who have difficulties to contact me as soon as possible (not just before the exams!), and to attend tutoring sessions.

Schedule of exams. Tuesday, October 11, and Thursday, November 17. For final exam, see the schedule at the University level.

Office hours.

I will have office hours for this class on Tuesday and Thursday between 4:10 and 5:10 in ES-116. I can also be contacted by phone (442-4635) or e-mail (1enart@albany.edu); if needed, you can ask for an appointment in addition to the office hour.

Extra help. The Math Department runs a tutoring room from 9-4 in ES 138. You can stop and ask the graduate students there for help.

The publisher also offers online help through the BCA/iLrn Homework System - see their website: <http://ilrn.com>. This is available for free with new copies of the textbook.