This is a “standard” second course in calculus—Integral Calculus—which will cover most of chapters 5, 6, and 7 and parts of chapters 8 and 10 of Stewart.

The highlights of the course are the definition of the definite integral (as a limit of a sum), the relation between integration and differentiation (The Fundamental Theorem), applications of integration (i.e., problems which require integration for their solutions), techniques of evaluating integrals (which may make heavy use of algebra and trigonometry), and auxiliary topics (polar coordinates, parametric equations, simple differential equations).

The pacing of the course is planned to be roughly as follows:

- **Weeks 1 & 2**: Chapt. 5
- **Week 3**: Most of chapt. 6
- **Week 4**: Midterm on chapt. 5 & 6 material; finish 6 & begin 7.
- **Weeks 5 & 6 & (part of) 7**: Chapter 7.
- **Week 8**: Midterm on chapt. 7. Finish (or do) improper integrals.
- **Week 9**: Chapt. 8.1, 8.2 plus chapt 10.1–10.4
- **Week 10**: Finish the above; introduction to elementary differential equations; general review.

This may be ambitious. If possible, the time spent on chapter 7 may be shortened (for reasons explained in class when we get there).

**General assignment**: You—on your own initiative—should do a significant number of the odd numbered exercises. Solutions for these are in the text, which should enable you to check your efforts. You are free—even encouraged—to assist each other with these in groups when they prove difficult.

However, you will be given regular—probably daily—small assignments chosen from the even numbered exercises to write up and to turn in. These are to be your own work and no one else’s! [A certain number—to be negotiated in a week or so, when things stabilize—of homework scores will be disregarded in computing the “homework” part of your grade. This should ameliorate the “no late homework” policy (below).]

**Grading**: The course grade will be computed roughly as follows. (The dates of the midterms are subject to change. Any change will be announced in class.)

1. Written homework (as assigned) ...............................15%
2. Midterm (Wednesday, October 20) ..........................25%
3. Midterm (Wednesday, November 17) ......................25%
4. Final exam (Monday, December 6, 11:00 a.m.–12:50 p.m.) 35%

Late homework will not be accepted. Homework is to be turned in at the beginning of class on the due date. Homework is to represent individual efforts! Any work not your own, e.g., results obtained from reference sources, should receive appropriate bibliographic citations. Plagiarism will be subject to appropriate penalties.

**Make-up policy**: Make-up tests will be considered only in unusual circumstances, and then only if arrangements have been made in advance.