

This course is an introduction to the integral calculus and a few of its applications. Learner objectives and skills include, but are not limited to:

- comparing the geometric and the velocity-distance interpretations of the definite integral
- applying the Fundamental Theorem of Calculus
- using integration techniques such as substitution, parts, partial fractions and trig substitution to find definite and indefinite integrals.
- computing the volume and/or surface area of a solid of revolution
- computing improper integrals
- finding centers of mass in one and two dimensions

Comments

1. It is the student's responsibility to know the assignments, material covered in class and the dates of all the quizzes and exams.
2. This course is intensive and proceeds quickly through the syllabus: there will be time to go over some, but not all, homework problems during class. Of course, you are invited to discuss any homework problem during my office hours.
3. The best way to study for my exams is to review the quizzes, your lecture notes and your homework.
4. Homework will be assigned but not collected. Most of the problems I assign are closely related to my lectures. Therefore, **take good notes!** (Even if you cannot keep up with the lecture, write everything from the board down and then review your notes before you begin your homework.)
5. You will be allowed to bring a 3" by 5" 'cheat sheet' to the exams. A good cheat sheet will help you organize your study time. Therefore, take your time and put some thought into devising your card.
6. *INCOMPLETES*. An incomplete will not be considered before the end of the eighth week (i.e., November 17) and the student has a passing grade at the time.
7. Please e-mail me or call Student Affairs (x1515), if possible, for extended absences.
8. Speaking of e-mail, it is easier for me to respond to e-mail than to voice-mail. Also, e-mail sent after 2:00 pm will probably be read the next morning.