Overview. This course is the second in the three part calculus series. Math 112 or 118 are prerequisites; this course begins where Math 112/118 ended. The course includes applications and techniques of integration, discusses the transcendental functions (log, exp, and the trig functions), and the infinite series. 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.

Syllabus.
Chapter 6 (Applications of Integration)
Completion of Chapter 7 (Transcendental Functions) started in Math 118
First Test
Chapter 8 (Techniques of Integration)
Chapter 9 (Conic Sections, Parametrized Curves, and Polar Coordinates)
Second Test
Chapter 10-11 (Sequences and Series)
Cumulative Final Exam

Homework. Homework will be assigned at the end of classes on Tuesday and Thursday; you are allowed to work together on the homework problems. You will be asked to present the solutions to the homework problems in class; problems will be examined one week after they are assigned. 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.

Grading. Each of the two tests during the semester will be worth 20% of your mark, the cumulative final is worth 40%. Class participation (presenting the solutions to the homework problems) is worth 20%. Attendance is required as part of your grade. 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.

Office hours. Office hours for this course will be Tuesday and Thursday after class (2:30-3:30) in ES-118. You are encouraged to make use of this time to clear up any problems you might have with the material in lectures, as well as to ask for hints on the homework problems, after you made some attempts at them on your own. I can also be contacted by phone (442-4635) or e-mail (lenart@csc.albany.edu).