Purpose and Goals: Calculus is one of the most powerful of human intellectual achievements. It is dynamic, not static, concerned with change and motion and has a vast array of applications. Our particular introductory course is designed to develop appropriate problem solving techniques, to provide a positive introduction to the reading and writing of mathematics, to develop concise and logical patterns of thinking, and to gain an appreciation of the strength, beauty, and historical development of Calculus.


Attendance Policy: Attendance is not required but is highly encouraged; active, contributing class participation is expected. All students, present or not, are responsible for material covered and for all announcements made in class.

Course Content: Calculus II will emphasize the integral. We start with a review of the integral concept followed by work on numerical integration, on antidifferentiation techniques, and on improper integrals. Supporting material from the text can be found in Chapter 5. An exam over this portion of our work will be on 20 September. The next portion of the course will cover applications of the definite integral. Supporting material from the text can be found in Chapter 6. An exam over this part of our semester’s study will be on 20 October. We will then spend significant time studying a very interesting and important topic, infinite series, that is presented in Chapter 8 in our text. An exam over this topic will be on 17 November. The remainder of the semester will be involved with differential equations and will be supported by Chapter 7 of the text. The comprehensive final exam is Tuesday morning, 7 December, at 8:30.

Grade Assignment: There will be a 10 point test consisting of one of the assigned homework problems for the week given at the beginning of each Wednesday class except 22 Sept., 13 & 20 Oct, and 17 Nov. The lowest three grades will be dropped, leaving a potential 80 point total (no make-ups). There will be three one-hour exams during the semester valued at 100 points each. The comprehensive final exam is valued at 120 points. The course grade will be based on the 500 total points with the following grade distribution.

- 460-448: A- 410-398: B- 360-350: C- 310-300: D-

Below 60% will be considered failing.

Accommodations: Southwestern University will make reasonable accommodations for students with documented disabilities. To arrange accommodations students should contact the Academic Services Coordinator within the Office of Academic Services. Students seeking accommodations should notify the Academic Services Coordinator at least two weeks before services are needed. It is the student’s responsibility to discuss any necessary accommodations with the appropriate faculty member.