MATH3320 Analysis
Fall 2017   MWF11   Gasson 205

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Analysis is concerned with the theoretical underpinnings of calculus and extensions. We'll start with properties of the real numbers, then consider sequences and limits, functions and their derivatives, and integrals. If time permits, we will explore series.

The text we'll use is **An Introduction to Analysis, 2nd edition, by G.G. Bilodeau, P.R. Thie, and G.E. Keough** (ISBN-13: 9780763774929). We'll cover selected portions of the first five chapters and, time permitting, some of chapter six.

Prerequisite: (MATH2202 or MATH2203) and (MATH2216 or both of MATH2203 and MATH2211).

How to reach me: my office is **543 Maloney**; email (chambers@bc.edu) is the most reliable method of reaching me. **Office hours:** M3-4, W2-3, F12-1 and by appointment.

Homework will be assigned and collected on a (roughly) weekly basis. I will return correct solutions with your papers. If you are having trouble with the homework problems, I'm available for assistance and hints. You are also allowed to discuss the problems with other students, but **you alone are to write up your work**; discussion with other students is simply to understand the concepts and techniques so that you can solve the problems. **Papers containing transparent copying will be returned with zero credit.** Late homework will generally not be accepted. University procedures will be followed in integrity cases: see **www.bc.edu/integrity** for these.

Exams: there will be two semester midterms and a cumulative final. You are only allowed a make-up for a missed exam for a serious reason. If you must miss one, please clear it with me beforehand. Tentative dates for the midterms are: October 11 and November 17. The final exam is December 14 at 12:30. Midterms and the final are closed book/no notes.

Semester grades will be based on homework (15%), semester exams (25% each), and final exam (35%).

If you are a student with a documented learning disability seeking reasonable accommodations in this course, please contact the Connors Family Learning Center (617-552-8093); regarding all other types of disabilities, please contact the Disability Services Office (617-552-3470).