

MATH 502-01: Introduction to Analysis II

Spring 2009, 4:00-5:15, TuTh, NS 110

- Instructor** Lee Larson, NS 323, 852-6826, LLarson@Louisville.edu. My scheduled office hours are 1:30-2:20 MTuTh, but feel free to ask about other times.
- Web Page** There is a Web page for this course at www.math.louisville.edu/~lee/09Spring502. It contains late announcements, corrections, homework assignments and homework solutions.
- Text** *Elementary Real Analysis*, Thomson, Bruckner and Bruckner, Prentice-Hall, 2nd ed., © 2008, ISBN: ISBN143484367X. This book is available as an inexpensive download at the URL <https://www.youpublish.com/files/5392>, or can be purchased from Amazon as a paperback.
- Plan** This course will begin where MATH 501 ended. Topics covered will include more applications of differentiation, development of the integral, sequences and series of functions and a few topics in higher dimensions, corresponding to roughly Chapters 7-11 in the text. This is difficult material, so students should be prepared to spend at least three hours working outside of class for every class period.
- Homework** Homework problems will be assigned nearly every lecture. They will be due at the beginning of the class period one week later. Each problem will be worth 10 points, although I reserve the right to very rarely give as many as 5 extra points for an especially clever or original solution. In addition, more challenging extra credit problems will occasionally be assigned. The extra credit problems are optional for students taking this course for undergraduate credit and mandatory for those taking it to earn graduate credit.
- Please submit each problem solution on a separate sheet of paper to make my grading easier. Also, make the problem number prominent. (By “problem number” I mean the number the problem was assigned in class and not the number of the problem in the text, if any.)
- Solutions to the homework problems will be posted on the class Web page soon after the problems are due.
- Grading** Your grade will be based upon the total points earned from the homework problems and a take-home final exam. The point totals will be scaled so the homework will count 75% and the final exam will be 25%. A “curve” based upon these points will be determined after the final exam. The final curve will be no stricter than a standard 90-80-70-60 scale. If a student is taking the course for undergraduate credit, the extra credit points will be added on after the curve is determined, so the extra credit can raise and not lower the final grade.
- At any time during the semester you may ask me how you’re doing and I’ll make an approximation of your current letter grade.
- Lectures** The material presented in class will not be in exactly the same order as the material from the text. Detailed lecture notes will be available on the class Web page for many of the topics.
- Disclaimer** The instructor reserves the right to make changes in the syllabus when necessary to meet learning objectives, to compensate for missed classes, or for similar reasons.