Math 316–001 (Advanced Calculus II)  
Spring 2009

Instructor: David Walnut  
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Office hours: MW 1:00–2:30pm and by appointment.  
Text: William R. Wade, An Introduction to Analysis (third edition)  
Topics: The course will cover portions of Chapters 6–8, 11-13 in the text.

General Comments:  
This course is a continuation of Math 315. The aims and approach of this course are the same as for 315, stated in the previous syllabus as follows: The goal of this course is to introduce the student to the arguments and techniques that are used in modern analysis, and in particular will help the student develop a facility with the limiting processes that occur regularly throughout mathematics. In addition the course reinforces the theory of differentiation and integration learned previously and places it on a firmer footing. Finally the course provides a mathematically rigorous foundation for solving problems in more advanced applied mathematics including numerical analysis, differential equations, and functional analysis.

The prerequisite for this course is C or better in Math 315.

Grading:  
Homework: Homework exercises from the text will be assigned regularly, collected and graded. Your homework grade will count for approximately 3/5 of your final grade.  
Exams: A midterm exam will be given on Wednesday, March 4, and a final exam on Monday, May 11, 1:30pm–4:15pm in the same room where we have class. The final exam will not be cumulative. Each exam will count for approximately 1/5 of your final grade.