Instructor: Prof. Xiaojing Ye, xye@gsu.edu, COE 704, Phone: 413-6444.

Course Website: http://www.math.gsu.edu/~xye/course/analysis.html


Time: 3 credit hours in Fall semester. Two lectures per week, 75 min per lecture.

Prerequisites: A grade of C or higher in Introductory Linear Algebra (MATH 3435). Co-requisite: Linear Algebra (Math 4435).

Course Outline:

Chapter 1 The real and complex number systems ............ approx. 6 lectures
Chapter 2 Basic topology .................................................approx. 6 lectures
Chapter 3 Numerical sequences and series .................... approx. 9 lectures
Chapter 4 Continuity ......................................................approx. 6 lectures

Course Description: Rigorous approach to calculus; proof techniques in the area of real analysis.

Grading Scales:

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Exam: Two midterm exams and one final exam. All exams are held in lecture room.

Homework: 10 homework assignments are given during lectures. Each one has a total of 2 points.

Academic Honesty: All work submitted by a student for a grade must have been done without help from other persons. Cheating and plagiarism are strictly forbidden. A first occurrence will result in a grade of 0 on the assignment for all concerned parties as well as an Academic Dishonesty form being filed with the Dean of Students. A second occurrence will result in a grade of F for the course for the concerned parties and a second Academic Dishonesty form being filed.

Makeup Policy: Exams may be made up only in the event of a suitable verifiable excuse (e.g., a doctor’s note is necessary).

Remarks:

• Whilst every effort will be made to adhere to the syllabus, the circumstances may make it necessary to deviate from it.

• Students who wish to request accommodation for a disability may do so by registering with the Office of Disability Services. Students may only be accommodated upon issuance by the Office of Disability Services of a signed Accommodation Plan and are responsible for providing a copy of that plan to instructors of all classes in which accommodations are sought.
Instructor: Prof. Xiaojing Ye, E-mail: xye@gsu.edu Office: COE 704, Phone: 413-6444.

Course Website: http://www.math.gsu.edu/~xye/course/analysis.html

Time: 3 credit hours in Spring semester. Two lectures per week, 75 min per lecture.


Prerequisites: A grade of C or higher in Analysis I (Math 4661).

Course Outline:

Chapter 5 Differentiation of real functions. ....................... approx. 5 lectures
Chapter 6 Riemann integrals ........................................... approx. 6 lectures
Chapter 7–8 Sequences of functions .................................. approx. 8 lectures
Chapter 9–10 Function of several variables ......................... approx. 5 lectures

Course Description: Rigorous approach to calculus; proof techniques in the area of real analysis.

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Homework: 10 homework assignments are given during lectures. Each one has a total of 2 points.

Exam: Two midterm exams and one final project. All exams are held in lecture room.

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Attendance Policy: Students are required to attend lectures. A student who incurs an excessive number of absences may be withdrawn from a class at the discretion of the professor.

Makeup Policy: Exams may be made up only in the event of a suitable verifiable excuse (e.g., a doctor’s note is necessary).

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