MATH 4661/6661 - Analysis I - Course Syllabus

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

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

Textbook: Principles of Mathematical Analysis (Third Edition) by Walter Rudin. Published by McGraw-Hill.

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 systemsapprox.	6 lectures
Chapter 2 Basic topologyapprox.	6 lectures
Chapter 3 Numerical sequences and seriesapprox.	9 lectures
Chapter 4 Continuityapprox.	6 lectures

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

Grading Scales:

Score	0-59	60-69	70-76	77–79	80–82	83-86	87–89	90–92	93–96	97–100
Grade	F	D	С	C+	B-	В	B+	A-	A	A+

Grading Weights: Homework (20pts). Midterm Exam 1 (25pts). Midterm Exam 2 (25pts). Final Exam (30pts).

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.

MATH 4662/6662 - Analysis II - Course Syllabus

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.

Textbook: Principles of Mathematical Analysis (Third Edition) by Walter Rudin. Published by McGraw-Hill.

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 integralsapprox.	6 lectures
Chapter 7–8 Sequences of functionsapprox.	8 lectures
Chapter 9–10 Function of several variablesapprox.	5 lectures

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

Grading Scales:

Score	0-59	60-69	70-76	77–79	80–82	83-86	87–89	90–92	93-96	97-100
Grade	F	D	С	C+	В-	В	B+	A-	A	A+

Grading Weights: Homework (20pts). Midterm Exam 1 (30pts). Midterm Exam 2 (30pts). Final Project (20pts).

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.

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. See the University's policy on academic honesty at http://codeofconduct.gsu.edu/.

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).

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.