

SYLLABUS FOR MATH 302/1-LEC[4172]

Introduction to Mathematical Analysis II

Fall 2009

MW.....5:30pm- 6:45pm (MP 104)

Instructor: Florian Potra

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Office Hours: M 1:45-2:45PM, W 2:45-3:45 PM and/or by appointment

Textbook: *Marsden and Hoffman, Elementary Classical Analysis, 2nd edition (1993) W.H. Freeman and Co.*

COURSE OUTLINE (tentative)

Chapter 1 (Sections 1.6 → 1.7)

Chapter 2 (Sections 2.1 → 2.8)

Chapter 3 (Sections 3.1 → 3.5)

Chapter 4 (Sections 4.1 → 4.6)

Chapter 5 (Sections 5.1 → 5.6)

Chapter 6 (Sections 6.1 → 6.4)

Chapter 7 (Sections 7.1 → 7.2)

GRADING POLICY

Your grade in this course will be based on two in-class midterm exams, a comprehensive final exam, homework problems (I collect each Monday problems assigned during the previous week) and quizzes. These will have the following weights:

	Weight	Examination Date
Homework and quizzes	30%	Due every Monday
Exam 1	20%	Oct. 12, Monday
Exam 2	20%	Nov. 9, Monday
Final Exam	30%	MON, DEC 21 6:00-8:00 PM

Letter grades for the course will be based on your total score(S) which is the weighted sum of scores in the two midterm exams, homework, and the final exam:

Score (S)	$85 < S \leq 100$	$75 < S \leq 85$	$65 < S \leq 75$	$50 < S \leq 65$	$0 \leq S \leq 50$
Grade	A	B	C	D	F

The grading system may be changed for the entire class or in individual cases at the discretion of the instructor. In particular, **class attendance and participation will be taken into account.**

By enrolling in this course, each student assumes the responsibilities of an active participant in UMBC's scholarly community in which everyone's academic work and behavior are held to the highest standards of honesty. Cheating, fabrication, plagiarism, and helping others to commit these acts are all forms of academic dishonesty, and they are wrong. Academic misconduct could result in disciplinary action that may include, but is not limited to, suspension or dismissal. To read the full Student Academic Conduct Policy, consult the UMBC Student Handbook, the Faculty Handbook, or the UMBC Policies section of the UMBC Directory.

Learning Goals

By the end of this course, you should:

- understand and remember the key ideas, concepts, definitions, and theorems of the subject,
- be able to apply mathematical theorems correctly to answer questions, and interpret the results,
- be able to choose the most useful theorem for solving a given problem,
- appreciate the power of mathematical generalization (or abstraction) and understand how mathematical theory is developed,
- have enhanced your ability to communicate mathematical ideas and algorithms orally and in writing,
- have enhanced your ability to learn mathematics by reading mathematics books.

To achieve these goals, you should:

- preview each section before it is covered in the class,
- come to every class and ask questions,
- read the section in the text before attempting to work out its exercises; and read it again if necessary,
- form and participate in a study group,
- try hard to work out each exercise by yourself first; discuss it in a study group if necessary; and ask the instructor to show how it is done as a last resort only after the assignment is handed in,
- do and hand in each assignment on time.