Mathematics 132

Mathematical Analysis II



Time and Place:	T & Th 12:00- 1:10 pm, Davidson Lecture Hall, Spring 2013
Instructor:	Asuman Guven Aksoy, www.asumanaksoy.com
Office:	Adams 215, Campus x72769 Off-Campus: dial 607-2769
Email:	aaksoy@cmc.edu
Text:	Elementary Classical Analysis, Second Edition by Marsden and Hoffman

Course Description:

Possible topic include, Uniform convergence and integration and differentiation of series, the space of continuous functions and Arzela-Ascoli Theorem, Contraction mapping theorem and its applications, the Stone-Wiestrass Theorem, differentiable mappings the inverse and implicit function theorems and related results. Integrable functions and Lebesgue's theorem. Fubini's theorem and the change of variables formula. Fourier Analysis and if time differential forms.

References:

George F. Simmons, Introduction to Topology and Modern Analysis
B. R. Gelbaum and J. M. H. Olmsted, Counterexamples in Analysis
M. Spivak, Calculus on Manifolds
S. Lang, Undergraduate Analysis
W. Rudin, Principles of Mathematical Analysis

D. Brossoud, A Radical Approach to Real Analysis

Exams and Homework

2 Midterms Exams on February 28th and April 18th. Weekly homework (10-15 questions), generally due on Thursday

Comprehensive Final Exam Friday, May 16th at 7:00 pm There will be **NO** make-ups for any exams unless there is a very good reason.

Grading Scheme:

Final grade is computed as follows:

Homework 20%, Quizzes 10%, Midterm I 20%, Midterm II 20%, Final Exam 30%.

Homework Grader:

Sixian Jin (CGU), jsxjsx12345@hotmail.com

Tutoring:

Tutoring will be held in the Math Commons Room, located at 209 Adams Hall CMC.

Jennifer Thompson (CGU), jennifer.thompson@cgu.edu Monday and Wednesday from 8:00-9:30 pm