Meeting Time: MWF 2:00 - 2:50
Location: Math 305.

Professor: Jennifer Brooks
Office: Math 107
Office Phone: 243-2083
e-mail: jennifer.brooks@mso.umt.edu
Office Hours: MWF 1:00 – 1:50.

Text: 
*Hermitian Analysis: From Fourier Series to Cauchy-Riemann Geometry*,

Course Description

In this course we study the fundamentals of Fourier analysis. Topics include
Fourier series, Hilbert spaces, and the Fourier transform. The course is designed to
be accessible to those with a solid foundation in undergraduate mathematics and
aims to connect Fourier analysis with other areas of mathematics.

Assessment

- Homework: 50%
- Project: 50%

You are expected to present a problem at least once every two weeks. You may
choose the problem you present. When you have selected a problem, let me know
in class or by email and I will tell you on which day you may present.

You are also expected to complete a final project for the course on a topic of
interest to you that is related to the content of the course. Of course the topic
is to be approved by me in advance. I will set various deadlines throughout the
semester for selecting a topic and demonstrating partial progress. You will give a
presentation of your final project during one of the last classes or during the final
exam time. Your presentation should be at least 25 minutes.

Academic Misconduct

All students must practice academic honesty. Academic misconduct is subject to
an academic penalty by the course instructor and/or a disciplinary sanction by the
University. All students need to be familiar with the Student Conduct Code. The
Code is available for review online at http://www.umt.edu/SA/VPSA/index.cfm/page/1321.

Students with Disabilities

Students with disabilities may request reasonable modifications by consulting
with me. The University of Montana assures equal access to instruction through
collaboration between students, instructors, and Disability Services for Students
(DSS). For more information, consult http://www.umt.edu/disability.

Important Dates

- Jan. 21 (Monday): MLK Day – no class.
- Feb. 18 (Monday): Presidents’ Day – no class.
- Mar. 25 – Mar 29: SPRING BREAK.
Apr. 26 (Friday): Last day of class.