Physics 552 – Mathematical Methods of Theoretical Physics

Section 1 (Fall 2008), 126 Lewis Hall, Tuesday Thursday 9:30AM
Prof. Mihai Bondarescu
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Office Hours:

Tuesday 12:15-1:00 PM, 126 Lewis Hall
Thursday 12:15-1:00 PM, 126 Lewis Hall

My main office is Room 5, Kennon
If you need to see me outside of office hours, please make an appointment. I am glad to work with you by email.

Textbook:

Arfken- Mathematical Methods for Physicists
We will cover roughly the second half of the book (Chapters 9-19).

Grading:

The grades are based on the following:

25 %	Final Exam
20 %	Midterm Exam
20 % total	Quizzes
15 % total	Homework Assignments
20 %	Class Participation
	Students will be called on in class. You should be prepared to respond to complex questions related to the lecture material.

Grading Scale:

A: 100 – 80%,   B: 80 – 60%,   C: 60.0 – 50%,   D: 50 – 40%   F<40%

Rules:

Attendance is expected.
Be prepared to show your student ID or Driver's License on Exam days.

Learning Objectives:

After completing this course, the students should be familiar enough with the advanced mathematical tools used in modern theoretical physics to read, understand and produce original research.

During this class, students will often be presented with problems they are not expected to be able to solve. This is very much like real research and teaching students how to perform in such situations is a crucial part of their education.

Prepare yourselves to be challenged!