Course Outline

Course: Phys 308 Mathematical Physics- Section 1 Instructor: Dr Alakabha Datta Office: 121-B Lewis Hall Meeting: T TH 11-12.15 pm at Lewis 109 Office Hours: T TH 2.30 pm-3.30 pm or by appointment. Email:datta@olemiss.edu, datta@phy.olemiss.edu Phone: (662) 915-5611 Course Information: Check Blackboard.

NOTE: Pre-requisite is Phys 212 and Co-requisite is Math 353.

Book



Course Goals and Learning Outcome: After completing the course you will know the basic mathematical tools to solve problems in physics and in general the physical sciences. This is not a course in mathematics but a course of mathematical physics and hence knowledge of physics at the level of Phys 211-212 is required.

Marking:

Homework: 45 %

Homework: I will assign homework that has to be turned in on time. No late homework will be accepted after the due date. Please write your name in block letters and include the problem set number with your homework. You can get help to do your homework (including help from the internet) but turn in your own work. Do not copy from someone. You are not authorized to use the Instructor's Solution Manual. There is a tutoring room available for help with your homework.

Blackboard.

Tests: 30%

There will be 2 tests each worth 15%. Each test will cover one class period (75 mins). The dates will be announced later but you will be notified in advance of the test date and the topics included in the test. One of the tests will be given and graded before the last day to drop the course.

Final Exam: 25%

The final exam will be based on all chapters covered in the semester. The exam time will be 3 hours.

Time of Final Exam: May 5, 2008 at noon (See Class Schedule)

An overall course average of the following percentages will guarantee the corresponding letter grade:

90%	А
80%	В
70%	С
60%	D

Topics Covered in course: Topics will be taken from the first 6 chapters of the book. We will cover Infinite series and Power series, Complex numbers, Linear Algebra, Partial differentiation, Multiple Integrals and Vector Analysis.

Attendance: There is no attendance requirement. However if you miss an exam or cannot turn in HW on time because of illness I will require a doctor' note. If you will away on other reasons inform me prior to your absence and get a note if applicable.

Academic Integrity: We will follow the University's policy of academic integrity (M-book). Violations of these policies will result in a failing grade and other disciplinary actions. In particular you are not allowed the use of the Instructor's Solution Manual.