Syllabus

Phys 308 : Mathematical Physics

Course Course Title Instructor

Office Semester Department Credit Hours Meetings Place Office Hours Textbook



Topics

Phys 308 Mathematical Physics Ahmed Rashed, <u>amrashed@go.olemiss.edu</u>

225 Lewis Hall Spring Semester 2015-2016 PHYSICS & ASTRONOMY 3 hours 11:00A-12:15P Tuesday & Thursday Room 228 12:15 P – 2:15 P Thursday

- Title: Mathematical Methods in the Physical Sciences
- Author: Mary L. Boas.
- Publisher: Hoboken, NJ : Wiley, c2006.
- **ISBN:** 9780471198260
- 1. Infinite series, power series
- 2. Complex numbers
- 3. Linear algebra
- 4. Partial differentiation
- 5. Multiple integrals

	6. Vector analysis7. Fourier series and transforms8. Ordinary differential equations	
Fyaminations	There will be three exams plus the fin	อไ
	There will be unce exams plus the final	an.
Grading	Homework Assignments (weekly)	35%
	Exam (1). End of February	15%
	Exam (2). End of March	15%
	Exam (3). End of April	15%
	Final, Take-Home Exam	20%
	A: 90% – 100 %; B: 80% – 89	%;
	C: $70\% - 79\%$; D: $55\% - 69$	%.
Pre-requisite(s):	• Phys 212: Physics for Science & Engineering II	

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 be away for 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.

Any students with disabilities who need accommodation in this course are encouraged to speak with the instructor as soon as possible to make appropriate arrangements.