

Methods of Theoretical Physics (LB/PHY 415), Spring 2010
Lecture and Assignment Schedule

Readings are from *Mathematical Methods in the Physical Sciences* by M.L. Boas, 3rd Edition
 All course meetings are in Biochemistry 111.

Day	Date	Reading Due	Lecture Topic	Discussion	Homework Due
Tues.	1-12	Chapter 5	Pretest		
Thurs.	1-14		Series & Multiple Integration Multiple Integration		H1
Tues.	1-19	Chapter 6	Vector Analysis		H2
Thurs.	1-21		Vector Analysis		
Tues.	1-26	Chapter 7	Vector Analysis	D1	H3
Thurs.	1-28		Fourier Series		
Tues.	2-2	Chapter 8	Fourier Series	D2	H4
Thurs.	2-4		Ordinary Differential Eqns. Project Proposal Due (by noon via e-mail)		
Tues.	2-9	Chapter 3	Ordinary Differential Eqns.	D3	H5
Thurs.	2-11		Ordinary Differential Eqns.; Coord. Transforms & Matrices		
Tues.	2-16		Coord. Transforms & Matrices		
Thurs.	2-18		TEST #1		
Tues.	2-23	Chapter 10	Coord. Transforms & Matrices	D4	H6
Thurs.	2-25		Curvilinear Coordinates Curvilinear Coordinates		
Tues.	3-2	Chs. 12 & 13	Curvilinear Coordinates	D5	H7
Thurs.	3-4		PDE's and Series Solutions Project Overview Due (in class) Individual Project Meetings with Instructors		
Tues.	3-9		[spring break]		
Thurs.	3-11		[spring break]		

Tues. 3-16		PDE's and Series Solutions		
Thurs. 3-18		PDE's and Series Solutions		
Tues. 3-23		PDE's and Series Solutions	D6	H8
Thurs. 3-25		PDE's and Series Solutions		
Tues. 3-30		TEST #2		
Thurs. 4-1		PDE's and Series Solutions		
Tues. 4-6		PDE's and Series Solutions	D7	H9
Tues. 4-8		PDE's and Series Solutions		
Tues. 4-13		PDE's and Series Solutions	D8	H10
Thurs. 4-15		PDE's and Series Solutions In-class Peer Review of Projects		
Mon. 4-19	Chapter 14	*Tentative* Oral/Poster Presentations at LBC Research Symposium		
Tues. 4-20		Complex Variables		
Thurs. 4-22		Complex Variables		H11
Mon. 4-26		*Tentative* Oral/Poster Presentations at LBC Research Symposium		
Tues. 4-27		Complex Variables		
Thurs. 4-29		Complex Variables Discussion	D9	H12
Mon. 5-3		TEST #3 3:00 - 5:00pm Post-test		