

PHYSICS 2401- THEORETICAL PHYSICS – SP23

Instructor: Jerry Peacher  
109 Physics  
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Office Hours: MTWThF 11:00 – 12:00 am

Text: MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES, THIRD EDITION,  
by Mary L. Boas, published by John Wiley & Sons

List of topics:	Ch. 1	Power series	Ch. 11	Special Functions
	Ch. 2	Complex numbers (Circuits)	Ch. 12	Series Solutions
	Ch. 7	Fourier series and Transforms	Ch. 15	Probability
	Ch. 4	Leibniz' rule	Ch. 13	Schroedinger Equation
	Ch. 5	Jacobians	Ch. 14	Complex Functions
	Ch. 9	Calculus of Variations		

Course points:	Test 1	100 points
	Test 2	100 points
	Final	100 points
	Quizzes	100 points
	<u>Homework</u>	<u>100 points</u>
	Total	500 points

Grades: A(90%), B(80%), C(70%), D(60%), F(< 60%)

Test Schedule:	Test 1	Friday, February 17, 2023
	Test 2	Friday, April 7, 2023
	Final	Monday, May 8, 2023 from 12:30 pm to 2:30 pm

Homework is an important part of this course. It will allow you to test yourself to see how well you have absorbed the material. In addition to getting credit, doing the homework should help you to keep up with the course and do better on the quizzes and exams. Homework is due no later than noon on the day following the due date. No homework will be accepted after the graded homework is returned to the class.

This course is offered by the MS&T Physics Department,  
Chaired by Dr. Thomas Vojta (vojtat@mst.edu), 102 Physics, Phone: 341 - 4781