Instructor: Jerry Peacher  
109 Physics  
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Office Hours: MTWTh 3:00 - 4:00 p.m.  Generally available at other times or by appointment.

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

Course outline:  
Ch. 1  Power series  
Ch. 2  Complex numbers  
Ch. 3  Fourier series and Transforms  
Ch. 4  Leibniz’ rule  
Ch. 5  Jacobians  
Ch. 10  Coordinate transformations  
Ch. 6  Vector analysis  
Ch. 15 Probability  
Ch. 12 Legendre polynomials  
Ch. 13 Schrödinger Equation  
Ch. 9  Calculus of Variations

Course points:  
Test 1  100 points  
Test 2  100 points  
Final  100 points  
Quizzes  100 points  
Homework  100 points  
Total  500 points

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

Test Schedule:  
Test 1  Friday, Feb. 26, 2016  
Test 2  Friday, April 8, 2016  
Final  Friday, May 13, 2016 from 7:30 am to 9:30 pm

Homework is an important part of this course. It will allow you to test yourself to see how well you have mastered the material. Keeping up with 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. Late homework will be penalized at the rate of 10% per scheduled class day late. No homework will be accepted after the graded homework is returned to the class.

This course is offered by the Missouri S&T Physics Department,  
Chaired by Dr. D. Waddill (waddill@mst.edu), 102 Physics, Phone: 341 - 4781

This material and old tests are on the Physics Department web in undergraduate courses.