

## PHYSICS 4211 - ELECTRICITY & MAGNETISM II – FS2022

Instructor: Jerry Peacher

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Office Hours: MWF 1:00 – 2:00 pm. You can also use e-mail to contact me.

Class meets at 10:00 am, MWF in Physics, Rm 127.

Text: INTRODUCTION TO ELECTRODYNAMICS, FOURTH EDITION,  
by David J. Griffiths, published by PEARSON.

Course outline:

|       |                                |
|-------|--------------------------------|
| Ch 7  | Electrodynamics                |
| Ch 8  | Conservation Laws              |
| Ch 9  | Electromagnetic Waves          |
| Ch 10 | Potentials and Fields          |
| Ch 11 | Radiation                      |
| Ch 12 | Electrodynamics and Relativity |

|                |                 |                   |  |
|----------------|-----------------|-------------------|--|
| Course points: | Test 1          | 100 points        | Monday, Sept. 26, 2022                         |
|                | Test 2          | 100 points        | Monday, Nov. 7, 2022                           |
|                | Final           | 100 points        | Scheduled Friday, Dec. 16, 2022 (3:00–5:00 pm) |
|                | Quizzes         | 100 points        |  |
|                | <u>Homework</u> | <u>100 points</u> |  |
|                | Total           | 500 points        |  |

Grades: A(450 - 500), B(400 - 450), C(350 - 400), D(300 - 350), F(<300)

Homework is an important part of this course. It will allow you to test yourself to see how well you have absorbed the material. Keeping up with the homework should help you to keep up with the course and do better on the exams. Homework is due by 5:00 p.m. of the due day indicated in the syllabus. Late homework may be penalized at the rate of 10% per day. No homework will be accepted after it is returned to the class.

This course is offered by the Missouri University of Science & Technology, Physics Department, Chaired by Dr. Thomas Vojta (vojtat@mst.edu), 102 Physics, Phone: 341 – 4781, under the auspices of the College of Arts, Sciences, and Education (CASE).

Some class material is on the MS&T website under A-Z Index/P/ Physics/ Class information/ Undergraduate/ Physics 4211/ Syllabus and old tests.