

# Syllabus Electromagnetic Theory I Phy 424

**Instructor:** Joseph Schechter, room 315, X 5968  
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**Class meetings:** Tues, Thurs 12:30-1:50, room 106 physics building

**Office hours:** An attempt will be made to schedule a problem hour at a time possible for all

**Text:** D. Griffiths, "Introduction to Electrodynamics", third edition.

## Course description:

Roughly, the first half of Griffiths will be covered. This involves the crucial math methods which are a mixture of review of things you learned in second year calculus (and maybe never thought you would need) with some helpful additions. These are applied to calculating static electric and magnetic fields in vacuum and in "materials". The relevant forces and energies will be discussed. The (time dependent) Maxwell's equations and their interpretation will end term 1.

## Grading:

Participation, homework and a final take home exam will be considered.