9:30am - 10:45am, Tuesdays and Thursdays in HuskyCT, Blackboard Collaborate Ultra.
Instructor: Philip Mannheim
e-mail: philip.mannheim@uconn.edu
Office hours: Tuesdays and Thursdays 10:45am to 11:45am also in Blackboard, or by appointment.
The course grade will be based on regular homework assignments (40%) and midterm (30%) and final (30%) exams. The course final will also serve as the Electromagnetism Prelim exam.
Midterm: Thursday March 11, 2021 9:30am - 12:30pm over webex. Syllabus: everything covered up to end of week prior to the midterm.
Final exam: date and time to be set by the registrar. Syllabus: everything covered during the semester.


Topics Covered:

Jackson Chapters 1-8

- Introduction to Electrostatics
- Boundary-Value Problems in Electrostatics: I
- Boundary-Value Problems in Electrostatics: II
- Multipoles, Electrostatics of Macroscopic Media, Dielectrics
- Magnetostatics, Faraday’s Law, Quasi-Static Fields
- Maxwell Equations, Macroscopic Electromagnetism, Conservation Laws
- Plane Electromagnetic Waves and Wave Propagation
- Waveguides, Resonant Cavities and Optical Fibers