

# PHYS 350 Electromagnetism

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## Class Meets:

Class Meets: T R, 10:30-11:45, in WAT 114

## Instructor:

Luis Elias, Watanabe 310, [lelias@hawaii.edu](mailto:lelias@hawaii.edu), (808)956-2961

## Recommended Textbook

Classical Electromagnetism  
Jerrod Franklin  
Addison Wesley ISBN 0-8053-8733-1

## Requirements

PHYS: 152 or 272 or 272A; and Math 244 (or concurrent) or MATH 253A (or concurrent); or consent of the instructor.

## Homework

Homework: You must submit the solutions to all problems assigned of which only one problem of each chapter will be graded. Answers to homework problems will be posted.

## Grade Distribution

3 midterms (50%) + 1 FINAL (30%) + HW submitted (10%) + HW graded (10%)

Exam problems will be selected from problems worked in class and problems assigned as homework.

## Course Content

1. Math review
2. Foundations of Electrostatics
3. Further Developments of Electrostatics
4. Methods of Solution in Electrostatics
5. Electrostatics in matter
6. Green's Functions
7. Magnetostatics
8. Magnetization and Ferromagnetism

## Midterm examination dates

September 28, October 26, and November 23

## Final examination

Monday, Dec 15, 9:45-11:45 WAT 417 A