

Physics 425 - Electromagnetism I

Dr. Ian Balitsky, Fall 2023

1. Information:

- Office: OCNPS 323
- Phone: 683-5814, 269-7383 (JLab)
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- Office hours: TBA

2. Textbook:

- D.J. Griffiths - Introduction to Electrodynamics, 4rd ed. (Cambridge University Press) - chapters 1-6.

3. Reference Textbook:

- W. Greiner - Classical Electrodynamics, ISBN 9781108420419

4. Grade (out of 100%):

- Homework: 34%
- Midterm 1: 16%
- Midterm 2: 16%
- Final (comprehensive): 34%

5. Outline of the course:

- Vector Analysis
- Introduction to Electrostatics
- Boundary-Value Problems in Electrostatics
- Electric Fields in Matter
- Magnetostatics
- Magnetic Fields in Matter