

HUNTER COLLEGE OF CUNY
Department of Physics

Spring 2016

Intermediate Electricity & Magnetism: Physics 334

Lecturer: Distinguished Professor Godfrey Gumbs

Office: 1247N;

Phone #: 650-3935

E-mail: ggumbs@hunter.cuny.edu

Web page: <http://www.hunter.cuny.edu/physics/faculty/gumbs/home>

Text: The course will follow Robert H. Good,

Classical Electromagnetism

(Edition, Thomson)

Lectures: Monday & Thursday: 2:10-4:00, PM

First Mid-Term Quiz: Monday, March 7, 2016 in 1311HN

Second Mid-Term Quiz: Monday, April 18, 2016 in 1311HN

End-Term Exam (*Cumulative*): Set by the Registrar

Problem Sets: Roughly every other week. Solutions will either be posted or we will discuss the solutions in class.

Tentative Outline

1. Vector Analysis: Chapter 1.
2. Electric & Magnetic Fields: Chapters 2 & 3.
3. Electromagnetic Induction: Chapter 4.
4. Maxwell's equations: Chapter 5.
5. Energy and Potentials: Chapter 6.
6. Dipoles & Multipoles Analysis: Chapter 7.
7. Conductors: Chapter 8.
8. Dielectrics: Chapter 9

9. Maxwell's Equations with Materials: Chapter 11.

Last class is on Monday, May 16, 2016. There will be a total of about twenty-seven lectures.

Please note:

- Colloquium on Friday February 5 at the **University of South Florida**.
- Monday February 15: Presidents Day — College closed.
- **American Physical Society March Meeting**: March 13-15.
- 22 - 30 April: Spring Recess.
- Thursday 9 April: Reading Day.

Grades Computed as Follows

First Midterm:	20%
Second Midterm:	20%
Final Exam:	60%
TOTAL	100%

OFFICE HOUR: THURSDAY : 1:00-2:00 PM