ELECTRODYNAMICS, PHYS 214 / 313

FALL 2022, Course Syllabus

Instructor: Valeri Kotov

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Lectures: Tuesdays and Thursdays, 1:15 pm-2:30 pm,
in LAFAYETTE L406

Office hours: Tuesdays, 3:00-5:00 pm, or by appointment

Textbook: “Modern Electrodynamics,”
by Andrew Zangwill,
Cambridge Univ. Press, 2012

Additional text: “Introduction to Electrodynamics”, by
D.J. Griffiths

Prerequisites: Phys 213 (Electricity and Magnetism)

Topics: This is a graduate / advanced undergraduate course.
We will start with Chapter 15 of Zangwill (which
corresponds to Chapter 8 of Griffiths), and move
forward, i.e. we start from conservation laws,
and then electromagnetic waves, radiation, and
relativistic effects.

Grades: Grades in this course will be assigned as follows:
• 55% Homework
• 15% Midterm Exam
• 20% Final Exam
• 10% Class Participation