

GENERAL COURSE INFORMATION:

## ELECTROMAGNETICS II

Fall semester of 2017

### EE 470 – Lec 30552R & 30550D

Welcome to ELECTROMAGNETICS II, an introductory course on electromagnetic waves. This course has 29 lectures, 12 homeworks, 2 midterm exams, and one final exam. Below are relevant information concerning this course; feel free to clarify any additional points that you may have directly with the instructor.

**Prerequisite:** EE 330 or equivalent.

**Credit:** 3 units.

**Instructor:** Prof. Aluizio Prata, Jr. [office: PHE 618;  
tel. (213) 740-4704; email: prata@usc.edu].

**Grader:** Amine Abouzaid [office: KAP 132;  
tel. (802) 234-1133; email: abouzaid@usc.edu].

**Text:** David K. Cheng, *Field and Wave Electromagnetics*, second edition.  
ISBN: 0-201-12819-5

**Lectures:** Tuesday and Thursday 08:00 – 09:20 in OHE 100C.

**Instructor Office Hours:** Tuesday and Thursday,  
09:30 to 11:30 and by appointment

**Grader Office Hours:** Monday, 16:00 to 17:00  
Friday 16:00 to 17:00

**Assignment schedule:**

<b>HMWK #</b>	<b>Due Date</b>	<b>Material Covered</b>
1	Aug. 31, Thursday	Sections 7-3 through 7-7.4 Skip section 7.4
2	Sep. 07, Thursday	Sections 8-1 through 8-6 Skip sections 8-2.1 and 8-3.3
3	Sep. 14, Thursday	Sections 8-7 and 8-8
4	Sep. 21, Thursday	Sections 8-9 and 8-10
5	Oct. 05, Thursday	Sections 9.1 and 9.3
6	Oct. 12, Thursday	Section 9.4
7	Oct. 19, Thursday	Section 9.5 Skip sections 9-5.3 and 9-5.4
8	Oct. 26, Thursday	Sections 9-6 and 9-7 Skip sections 9-6.1 and 9-7.3
9	Nov. 09, Thursday	Sections 10-1 through 10-3.1
10	Nov. 16, Thursday	Sections 10-3.2 through 10-4 Skip section 10-4.4
11	Nov. 21, Tuesday	Sections 11-1 through 11-4 Skip section 11-4.2
12	Nov. 30, Thursday	Sections 11-6 through 11-7 Skip section 11-6.3 and all paragraphs that come after Eq. (11-132)

The homework is due *at the beginning* of the corresponding lecture, on the due date. No late homeworks are accepted.

**Exam schedule:**

<b>Exam</b>	<b>Date</b>	<b>Time</b>	<b>Location</b>	<b>Material Covered</b>
Midterm I	Tue., Sep. 26	08:00–09:20	OHE 100C	Assignments 1–4
Midterm II	Tue., Oct. 31	08:00–09:20	OHE 100C	Assignments 1–8
Final	Tue., Dec. 12	16:30–18:30	OHE 100C	All course material

All exams are of the closed-book type. You may use a calculator and notes written on both sides of a *single* 3x5 in card (on the final exam you are allowed *two* cards). You are responsible for all material covered in class, on the assigned readings, and on the homework problems.

You must take the exams at the scheduled times. If you are absent during an exam, you will receive a grade zero unless you have a valid reason for your absence, *and* you have discussed it with Prof. Prata *prior* to the exam. Bring your USC ID card to each exam; it may be checked during the exam.

**Grading Policy:** The final grade of the course is computed using an weighted average of the two midterm exams (each with 25% weight), of the final exam (35% weight), and of the twelve homeworks (their average weighted by 15%).