

GENERAL COURSE INFORMATION:

**ELECTROMAGNETICS II**

Spring semester of 2019

**EE 470 – Lec 30552R**

Welcome to ELECTROMAGNETICS II, an introductory course on electromagnetic waves. This course has 28 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].

**Teaching Assistant:** 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 VHE 210.

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

**Teaching Assistant Office Hours:** Monday, 16:00 to 18:00

**Assignment schedule:**

| <b>HMWK #</b> | <b>Due Date</b>    | <b>Material Covered</b>  |
|---------------|--------------------|--|
| 1             | Sep. 05, Thursday  | Sections 7-3 through 7-7.4<br>Skip section 7.4   |
| 2             | Sep. 12, Thursday  | Sections 8-1 through 8-6<br>Skip sections 8-2.1 and 8-3.3  |
| 3             | Sep. 19, Thursday  | Sections 8-7 and 8-8   |
| 4             | Sep. 26, Thursday  | Sections 8-9 and 8-10  |
| 5             | Oct. 10, Thursday  | Sections 9.1 and 9.3   |
| 6             | Oct. 16, Wednesday | Section 9.4  |
| 7             | Oct. 24, Thursday  | Section 9.5<br>Skip sections 9-5.3 and 9-5.4   |
| 8             | Oct. 31, Thursday  | Sections 9-6 and 9-7<br>Skip sections 9-6.1 and 9-7.3  |
| 9             | Nov. 14, Thursday  | Sections 10-1 through 10-3.1   |
| 10            | Nov. 21, Thursday  | Sections 10-3.2 through 10-4<br>Skip section 10-4.4  |
| 11            | Dec. 03, Tuesday   | Sections 11-1 through 11-4<br>Skip section 11-4.2  |
| 12            | Dec. 10, Tuesday   | Sections 11-6 through 11-7<br>Skip section 11-6.3 and all<br>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   | Thu., Oct. 03 | 08:00–09:20 | VHE 210         | Assignments 1–4         |
| Midterm II  | Thu., Nov. 07 | 08:00–09:20 | VHE 210         | Assignments 1–8         |
| Final       | Tue., Dec. 17 | 16:30–18:30 | VHE 210         | 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%).