ECE 152A
Prof. Volkan Rodoplu

# Lecture # 0: Welcome

Dear ECE 152A Students,

Welcome to ECE 152A, Digital Design Principles. ECE 152A is the junior-level course on Digital Design. We review the concepts in ECE 15A in the first two weeks, and then introduce students to automated design concepts using the Verilog language. We also cover timing concepts and adders.

The 0th lecture this quarter is an organizational lecture, led by a TA.

## Part A: TO-DO IN LECTURE

Please hand in all the sheets **separately** (they will go to different places).

1. The course syllabus is also being handed out. The course syllabus contains the basic information for this course, as well as a detailed time chart that shows the reading material for each lecture. I will cover this in more detail in the second lecture.

2. The "DigiLab Account Sign-up Sheet" is being handed out. Fill out this sheet, and HAND IT IN to the TA's.

3. TA's will ask each section to go to different corners of the room. This will  help you find a lab partner today, if you don't have one, and meet other students in your section. You do NOT have to find a lab partner today, but you need a lab partner by next week.

## Part B: TO-DO THIS WEEK

The following are what you should do ideally this week:

1. Get your access card for DigiLab from the ECE shop. (The access card will become operational after 5:00 PM on the day that you get your card.)

2. Find a lab partner (At the end of the lecture today, we will mark different corners of the room with lab sections to help you find a partner.). Each "team" consists of 2 partners. (Note: If there is an odd number of students in a section, ONLY 1 team of 3 per section is allowed.)

3. Check out the XS50 board from the ECE shop (one board per team). (You do not buy this board, you check it out for the quarter. Don't burn your board.) We will be using this board for all of the laboratories.

4. Check out the course web page. (Read this course web page for Announcements on a regular basis. All announcements are posted on this web page. We do not send out mass email announcements.)

5. Read the Lab 1 handout posted on the course web page.

6. Read the X50 manual (posted on the web page). (It is very important that you finish reading this manual thoroughly within the first 3 weeks of the course.)

## PART C: THINGS TO KEEP IN MIND FOR NEXT WEEK

1. List the equipment that you plan to buy for Lab 1 from the ECE shop. (IMPORTANT NOTE: You will need to decide on what TTL chips you will need for Lab 1. So, buy your TTL chips only after this decision.)

2. For the first week of laboratory, if there are enrollment problems (e.g. too many students in one section, etc.), you and your partner may go to ANY section you want, to balance out any such problems. Usually, these problems get resolved within a couple of weeks. Please ask us if you have any questions.