EC602 Design By Software

Syllabus

Fall 2017

Contents

1 Course Description and Goals

This course is about learning to apply software to solving problems in electrical and computer engineering. The word *design* is interpreted broadly to mean "the process of doing Electrical and Computer engineering", including activities such as analysis, research, modeling, visualization, simulation, and prototyping.

2 Course Structure

The course is designed to provide you the maximum opportunity to master software skills within the context of Electrical and Computer Engineering. Therefore, all of our time will be focused on mastering skills in a real-world setting. Hence,

there will be deadlines, but there will not be any exams or tests. Your grade will be entirely determined by your work on assignments (see [Grading]).

EC602 is one unified course taught in two sections. The sections serve only to help us distribute students more or less evenly so that there are a manageable number of students in the studio.

Section A1 meets 2:30pm-4:15pm on Monday and Wednesday in LSE B03.

Section A2 meets 9am-10:45am on Tuesday and Thursday in LSE B03.

Our current policy is that you may attend either the morning or afternoon session, or both if you want extra time with your fellow students and the instructional staff. If one section starts to become too crowded then we may have to adjust the policy.

3 Online Resources

3.1 Piazza: discussion and communication

All questions about the course should be asked at the piazza discussion forum: EC602 Piazza

This is also where announcements will be made. You can choose to be notified by piazza via email if anything changes on the site. Click on the gear symbol and go to "Account/Email" settings.

3.2 Course website

The course materials and submission system are available here: EC602 Course Website

4 Instructional Staff

Professors Carruthers and Brower will be leading the course.

Prof. Carruthers will lead the morning sessions (Tues/Thurs) and Prof. Brower will lead the afternoon (Mon/Wed) sessions.

Contact information is available on EC602 Piazza.

5   Assignments

5.1   Weekly assignments

Your grade will be entirely determined by your work on 14 weekly assignments and an assignment "Participation/Extra Credit"

5.2   Participation/Extra Credit Assignment

One "assignment" will be based on your semester-long participation in class, on piazza, and on extra credit assignments (to be defined later).

You are not expected to come to every class, but if we never see you in person, then your participation online must be excellent to obtain credit for this assignment.

The EC602 Course Website will have a "Grading" area where you can check your grades, once this feature is complete.

5.3   Assignment Due Dates

There will be an assignment due each Tuesday at midnight starting on the first Tuesday after classes start and concluding on the last Tuesday of the semester.

Hence, the dates are:

1. 2017-09-12
2. 2017-09-19
3. 2017-09-26
4. 2017-10-03
5. 2017-10-10
6. 2017-10-17
7. 2017-10-24
8. 2017-10-31
9. 2017-11-07
10. 2017-11-14
11. 2017-11-21
12. 2017-11-28
13. 2017-12-05
14. 2017-12-12

No assignments will be accepted after 2017-12-12. This is the final deadline for all assignments.

5.4   Collaboration Policy

Each weekly assignment or part of a weekly assignment may be completed by as many authors as you wish.

It is expected that if your name is on a submitted work, that you have contributed in some fashion to the creation of that work.

5.5   Submission

Assignments will be submitted on the EC602 Course Website.

When you complete an assignment as part of a team, only one team member should submit, with all authors listed. The details will be available on the course website soon.