

System Design with Microcontrollers - ECE473

About this class....

The Goal: equip students to competently design embedded microcontroller systems

This is a design course.

As such you will need to:

- use considerable creativity, resourcefulness and persistence
- read long datasheets
- improvise around problems
- extract information from obscure sources
- apply material from courses you have already taken
- find solutions on your own from incomplete specifications

About this class....

You will read and reread prodigiously.

- typical for doing real design work

Labs will not have step-by-step instructions. You are the designer. You call the shots.

Complete design: C code, circuit schematics, and documentation.

Lab: the place where we get together as a smaller group and get stuff working.

Come to lab prepared to work.

- finished, detailed design with schematics,

- datasheets,

- parts

About this class....

Work in groups on homework and projects if you wish

- Share design approaches, philosophy, coding ideas
- Don't copy code

~Weekly quiz over reading and work done in lab.

Bulk of your grade comes from the project.

Write code with a programming editor.

- Learn emacs or vi.
- You will probably do a lot of programming in your career.
- Don't be a notepad weenie.