ME189 & ECE188: Week 5
Course Timeline

Week 1   Class   Fabricating and testing
Week 2   **Website Content In**   Fabricating and testing
Week 3   Fabricating and testing
Week 4   Fabricating and testing
Week 5   Class   **Project completion Test Plan**   Final prototype 1 completed
Course Timeline

Week 6  Reworking prototype and testing
Week 7  Reworking prototype and testing
Week 8  Project completion review  Reworking prototype and testing
Week 9  Project completion review  Poster 1st Draft Due Tues 5pm
Poster reviews Thu/Fri 9am-12:30pm  Poster Final Draft Due Sat 5pm
Week 10 Video Due Monday 5pm
Poster Presentation rehearsals Wed/Thurs afternoon
Showcase Presentation rehearsals Thurs 3-6pm
Engineering Design Expo (Edx 2019) Fri 12:00-5:15pm
Week 11 Lab clean-up, Final Design Packet, and data dump Tuesday 12pm
Submit self/group evaluations by 5pm
Engineering Design Expo (EDx 2019) 
Friday June 7th at Campbell Hall

• Open to the public
• Lots of potential employers
• Dress to impress

12:00 1:30  Fair Setup / Lunch / Class Picture
1:30  4:00  Design Fair
4:00  5:00  Showcase
5:00  5:15  Clean up
Design Competition
Competition Information

- **Time/Date:** Fri, June 7th from 1:30-4pm (Arrive at 12pm for lunch, set-up, class photos)
- **Location:** Corwin Pavilion
- **Format:** Each team will have a booth with electrical power access, table, and their poster. You will have a dedicated time to showcase your project to the judges (12 minutes per EE team). If possible, you should work a demo of your product into what you present. If applicable, you may have supplementary props and/or a laptop with pictures, images, videos, but ABSOLUTELY NO SLIDES! Judges will likely interrupt you with questions, so be prepared to think on your feet!

- **Judging Criteria:**
  1. Quality of the engineering work and of the resulting final product.
  2. How well were the goals of the project achieved?
  3. Quality of presentation / demonstration.
Competition Information

- Projects will be judged by a panel of faculty and industry judges
- There will be three separate competitions:
  - Mechanical Engineering (4 awards)
    - Excellence in Mechanical Engineering (includes $3K prize)
    - Engineering Innovation in ME (includes $2K prize)
    - Best Technical Project in ME (includes $2K prize)
    - Best Pitch – may be added to other 3 awards (includes $500 prize)
  - Electrical Engineering
    - Excellence in Electrical Engineering (includes $3K prize)
  - Multidisciplinary
    - Excellence in Engineering (includes $5K prize)
Poster Information / Overview

- **Size:** 36” x 48” (EE and Multidisciplinary), 30” x 40” (ME)
- **Content:** Refer to template and instructions. Note:
  - You may use provided template or come up with your own design
  - Must include (i) Team member names, (ii) Title, (iii) Your logo, (iv) Sponsor logo, (v) UCSB College of Engineering logo, and (vi) Acknowledgements
  - Background color cannot be black
  - Images must be at least 150dpi (preferably at least 300dpi)
- **General Tips:**
  - Use a minimum of text (bullet point descriptions are encouraged)
  - Make text large enough to be readable from a distance of 5 to 6 ft
  - Use graphs, charts, photographs, and illustrations as much as possible
  - Use graphics to communicate your points quickly and to demonstrate your work
  - Ideal poster will serve both as a stand-alone poster and as a reference for your presentation
Insert project logo and tagline here

**Background**
Insert background info about your project, motivation, etc. Include a figure if applicable

**Overview / Design Specs**
Insert brief description of product, problems that it solves, bullet points of key features, etc

**Exploded View / Block Diagram / Functional Flow Diagram**
Insert Exploded View / Block Diagram / Functional Flow Diagram

**Final Design / Product Name**
Insert picture of final product

**Hardware / Key Components**
- Picture: Key Comp #1
  - Label: Describe key component #1, including applicable specs
- Picture: Key Comp #2
  - Label: Describe key component #2, including applicable specs
- Picture: Key Comp #3
  - Label: Describe key component #4, including applicable specs

**Key Result #1 (e.g., thermal test, drop test, etc)**
Insert figure

**Key Result #2 / References / Conclusion**
Describe key result (consider bullet point list).

**Acknowledgements:**
Acknowledge everyone that helped you with your project (sponsors, mentors, instructors, TA’s, etc).

**Student #1  |  Student #2  |  Student #3  |  Student #4  |  Student #5**

Insert Poster Title Here
Poster Deadlines / Submission / Printing

- Tues 5/28: Submit first draft by 5pm, share over Google Drive to capstone.ece188@gmail.com
- Thurs 5/30 – Fri 5/31: Poster reviews 9am-12:30pm
- Sat 6/2: Submit final draft by 5pm, share over Google Drive as above.
- Mon 6/4: All posters will be printed. Contact Ekta Prashnani (ektaprashnani@gmail.com) with questions
- Wed 6/5 & Thurs 6/6: Practice/info sessions at Campbell in the afternoon, times TBA
Project Completion Review / Customer Review (Final Presentation)
Project Completion Review

Content:
- Tell us about your design
- What motivated the design
- Don’t forget to include the design specifications which came from Customer needs, Engineering Characteristics, competitive benchmarking
- Show us the test results, how does your product stack up to the competition?
- Get into the details of how your product works
- Utilize video, pictures, diagrams

Design: Spend a few weeks really preparing for this review. Take pride in your story and design. Think about how to sell it!
Video due Mon June 3
Video for this year

One video will be shown at the design showcase at Campbell Hall
One video will be put on Vimeo and/or Youtube and the Capstone Website

Your choice:
Submit one 30 second video to be shown at the showcase and one 3 minute video for the website
Or
Submit one 30 second video for both

*If your team presents on stage, you need only submit one video. Can be anywhere from 30 seconds to 3 minutes.
30s Video specifics

To be shown in front of a crowd of 400-600 people
30 seconds max
Demonstrate your prototype working
Think of this as a commercial on television—sell us on your idea, why it’s important
Condensed elevator pitch
Videos from last year: https://youtu.be/pjy1Wf9vFUI?t=1139
Data Dump
Data Dump

Box folder to be set up for your to dump all CAD files and everything else for the sponsor / future use