

ME189 & ECE188:  
Week 5

# Course Timeline

Week 1	Class	Fabricating and testing
Week 2	<b>Website Content In</b>	Fabricating and testing
Week 3		Fabricating and testing
Week 4		Fabricating and testing
Week 5	Class	<b>Project completion Test Plan</b> Final prototype 1 completed

# Course Timeline

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

# Engineering Design Expo (EDx 2019) Friday June 7<sup>th</sup> 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 7<sup>th</sup> 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





# Poster Deadlines / Submission / Printing

- Tues 5/28 : Submit first draft by 5pm, share over Google Drive to [capstone.ece188@gmail.com](mailto: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](mailto: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