

Introduction to Engineering - ENGR10A

Today: A lot about this course,
a little about me...,
and a little bit of engineering.

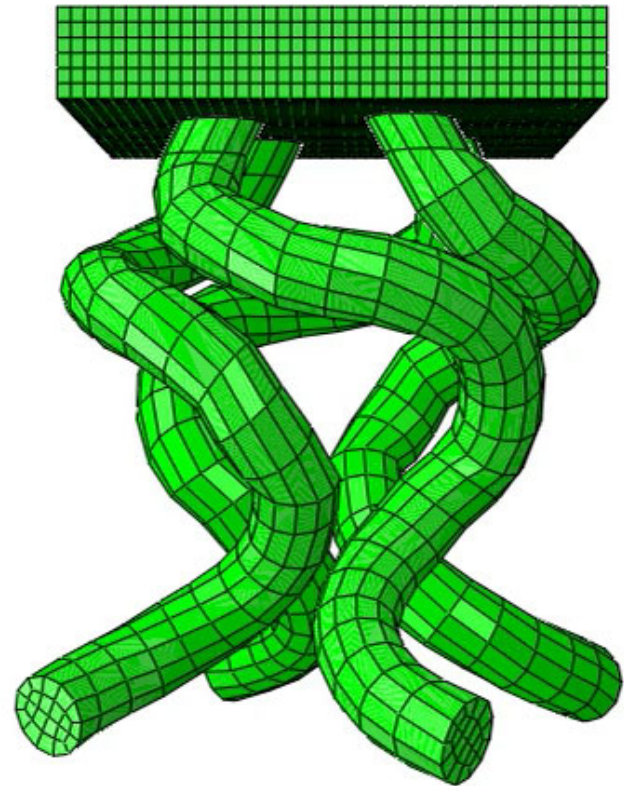
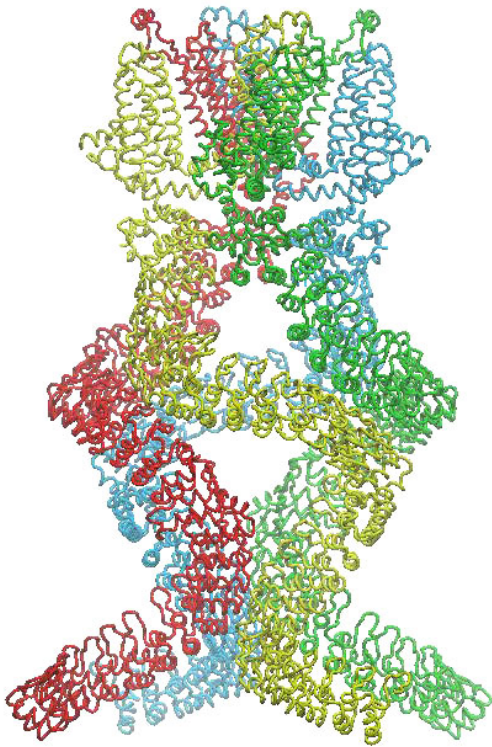
Outline for Today

- A little About Me (5 min)
- What is Engineering? (10 min)
- Course Logistics
- What to expect from this class – (15 min)

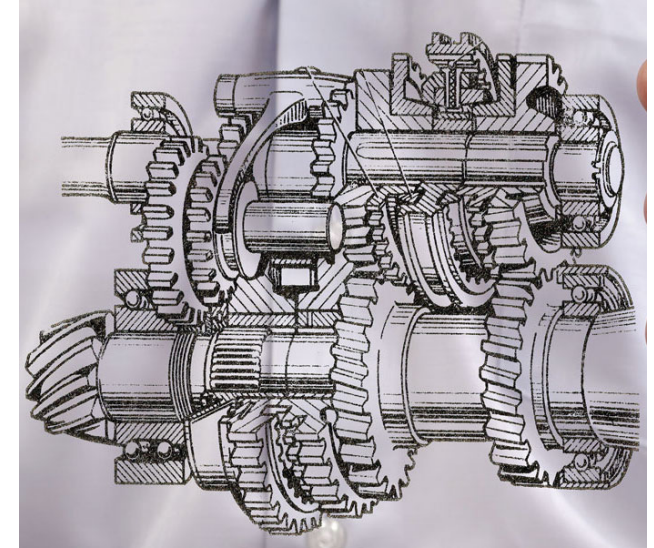
Me

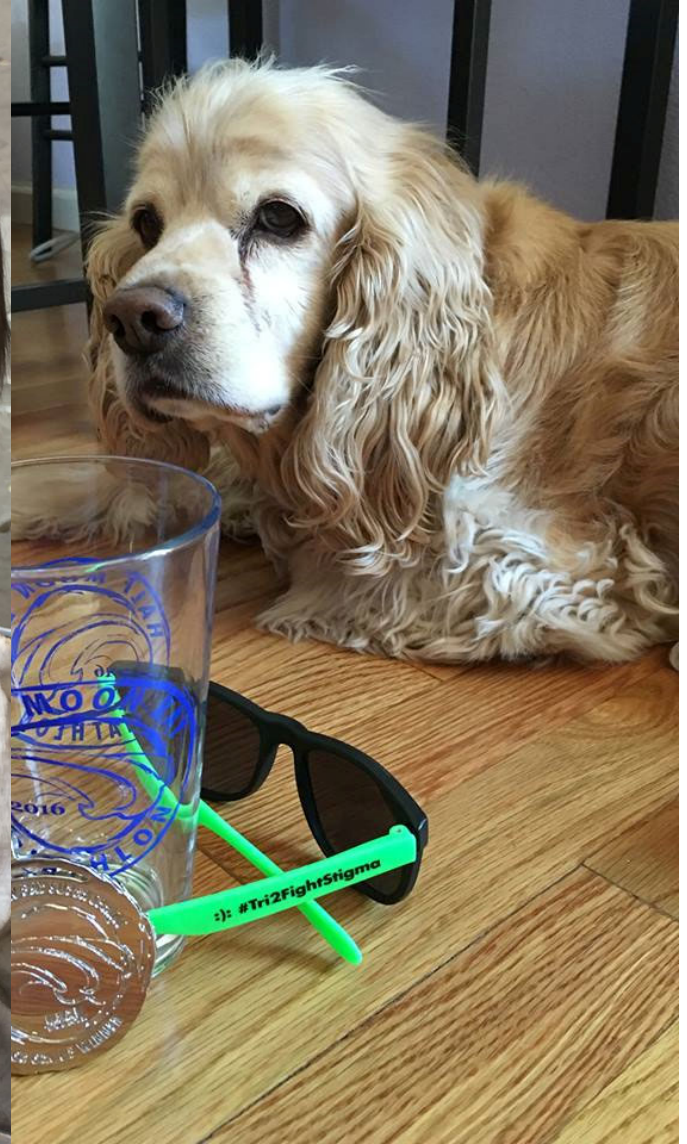


Things you can do with physics/engineering?
My experience



- From Quito – Ecuador
- Mechanical Engineer by training (UPENN).
- Don't remember how an engine works, or what to do if my car breaks down.
- Worked as a Postdoctoral Fellow at UCSF until August 10th, 2018.
- Research on DNA, cell membranes and proteins.
- Interdisciplinary: applied mathematics, biophysics, chemistry, mechanics, computer science.





Why am I here?

- Yes, I like Math, Physics, Engineering and Biology.
- Great experiences teaching in the past.
- Had great mentors and teachers who inspired me.
- I want to transition to academic teaching.



My goal is to grow as an educator by:

- helping you strengthen your skills to learn.
- make the classroom useful as well as interesting.

YOU



Find the Volume



$$\text{Volume} = \frac{4}{3} \pi R^3$$



The Mathematician

$$V = \text{Initial Volume} - \text{Final Volume}$$



The Physicist

Looks up volume
using model and
serial number.



The Engineer

Bringing Engineering Back

