Lecture 0: Your comments
Companies Promise To Add Over 6,000 Engineering Internships Next Year.

The AP reports, "More than 40 major companies have agreed to double the number of engineering internships they offer in a bid to help universities train more people for jobs that require math and science skills."
Questions:

What the assignments will be?
What will be the class topics?
What will be our role in class?

• Assignments will make you practice EC 2000 soft skills and will introduce you to the tools needed in industry.
• Topics are defined by your interests,
• In class participation is a MUST!
Question:

More information on group presentations

3/semester, 15’ (=15 slides) + 5’ ?

* 1. **Cover** (title + group name) and major source (engineering works, for example).
   We will listen to the radio cast
* 2. **Justification**: why is this important (to you)?
* 3. **Outline of content** to be delivered and expectations: what do you want others to learn
* 4-13: **Technical content** - deliver content in appropriate form: chronological developments, or types of problems solved, or needs created, etc
* 14: **Conclusions**: what was learned?
* 15: **The road ahead**: what you propose to do next or recommend others to do (learn more)
* 16. **Support material**: references (ASME style)
Question:

Topics on group presentations

ANY engineering issue or topic that catches your interest. For example:

- Grand challenges for engineering in the 21st century
- Engineering developments that changed the world
- Engineering marvels, Mega Projects, etc

You watch TV shows (Discovery, NG). Listen to TAMU engineering works to get you started
Student question: what to purchase

I am confused, which books to buy?

All and none. A book is an investment. To confuse you more, I also recommend:

- Thomas L. Friedman
  - The world is Flat: A Brief History of the 21 century ($10.11)
  - Hot, Flat and Crowded: Why we need a Green Revolution ($11.91)

- Fred Krupp
  - Earth: The Sequel: The Race to Reinvent Energy and Stop Global Warming ($10.76)
Want to learn more

Educational differences: Asia, US and Europe

Why exactly is the US falling behind other countries in engineering? How can be stopped (turned around)?

Foreign engineers & how they compete with US engineers

What roles do engineers have in large corporate organizations
Want to learn more

Make and differences b/w: China and US economics

The economy & future role of S Korea/China as well as how we can compete

Why American economy is not advancing at the rate of other countries? What changed?

Will US sales & marketing change in the next 10 years as China becomes the forerunner in the global market place?
Want to learn more

Opportunities for international students

With globalization increasing, how to better interact with international people.

How engineers better themselves to be marketable to multiple cultures & geographic locations

Applications for microturbomachinery
Question & comment

What advice will the speakers give?

How intense class discussions will be?

Why is the practical field so different from University education? If it is so different, then why not preparing students in every class in a practical way?
Will I find a job?

PREDICTED RATE OF GROWTH IN NUMBER OF JOBS OVER 10 YEARS FOR MECHANICAL ENGINEERS.

The prospects for mechanical engineering employment have improved, according to a report by the U.S. Bureau of Labor Statistics. Mechanical engineering is expected to grow 6 percent in the decade ending in 2018, from 238,700 employed in 2008 to 253,100 in 2018.

The report is the Occupational Outlook Handbook, which presents a decade-long forecast for job prospects in the U.S. and is updated every two years. The current edition, for 2010-2011, is available online at www.bls.gov/oco/ and covers the decade ending in 2018.

In all fields of engineering recognized by the Bureau of Labor Statistics, 1,571,900 engineers were employed in the U.S. in 2008. The bureau forecasts that the total will grow 11 percent to 1,750,300 by 2018.

Although the rate of job growth for MEs is slower than for engineering overall, it represents an improvement over the prediction of the previous edition of the Occupational Outlook Handbook. The 2008-2009 edition reported total employment of MEs at 226,000 in 2006 and forecast an increase of 4 percent by 2016.

In May 2008, the median annual income for mechanical engineers was $74,920. The top 10 percent of MEs were earning $114,740 a year at that time. Those numbers are increases from May 2006, when the median annual income was $69,850, and the top 10 percent were making $104,900 a year.

Median Salary for MEs

May 2006 $69,850
May 2008 $74,920

SHARE YOUR THOUGHTS ON THE NEXT QUESTION OF THE MONTH >>> VISIT WWW.MEMAGAZINE.ORG.
Perceptions

Engineers are seen as social outcasts and misfits

How do you plan on changing this idea?

Me???