TODAY - LAST LECTURE!

Administrative grades are getting updated.

H-Test II will be graded by next Wednesday.

Midterm regards =) go to our TA!

Next week: usual review (problems, review session, etc.)
Recap the semester:

1. You learned:
   - DC circuit analysis
   - Linear circuits
   - Nonlinear circuits (25% of our time)
   - Real world EE project
   - AC analysis \[ V(t), i(t) = A \sin (\omega t) \]
   - Digital logic (CPU etc.)
   - Transistors (important)

2. You didn't learn.
However, ① is more important ② because ① is very basic to EE.

A note on transistors:

① Why are they called transistors?

transistor → TRANSFER resistor

It can transfer resistance between two points in a circuit without side effect.
In other words, since $V_{SP}$, you transfer voltage & current from one point in the circuit to another. (Schematically, $\begin{array}{c} \text{Source} \\ \downarrow \text{FET} \end{array}$)

Overall view of EE: (from Berkeley EE hompage, EE News/Arora)

- Communications
- Networks
- Computer Aided Design (CAD)
- Ophoelectronics
- Power
- Image processing
- Solid state devices
Circuit Theory is useful in any of the above branches (electronics). But, a circuit can be broadly divided into 3 blocks:

- **Power & Circuits**
- **Core 1**: CPU, audio amplifiers, reset etc.
- **Interface (Input/Output)**
An example: ROBOTICS. My research:

Building walking robots.

My advisors are Prof. Chin & Sefczyk.

What so research about it?

Is answered on project's homepage:

http://robotics.eecs.berkeley.edu/~umbhardt/robot
Conclusions:

Thanks for being a great class 😊

Don't forget final 😔

Q2: How would you improve class?

1. Redo labs to make em more interesting
   (eg. blow up stuff 😊)
   (which is not dangerous eg. resistors)
2. No time

3. Too many topics -> no often choice.

4. Project will be incorporated. This was the first time, sorry 😞. But hey, you are pulling through!

5. GET equipment in Lab (especially wires connected)

O What did u like about class? I fill out HW today! 😔 Book: No ???(? 😞 Jumon on Tuesday 😞
Thanks, Good luck.

crs

Yaaaaa!