Welcome to EE 105  
Microelectronic Devices & Circuits  
Prof. Clark Nguyen

Lecture 1: Admin & Overview

- Announcements:
  - Welcome to EE105: Microelectronic Devices & Circuits
  - Instructor: Prof. Clark T.-C. Nguyen
  - All lectures will be recorded
  - Lecture pdfs and video will post on the course website in the “Lecture” link
    - Pdfs nearly immediately
    - Videos maybe 2 days later (post processing)
    - If you miss a lecture … can watch the video, if successfully recorded
    - Warning: People who think they will watch the videos, often don’t get time to do so
  - Your first HW comes next lecture
  - Discussions start next week
  - Labs start the week after next
    - The first lab section will be Monday, Sept. 9
      - Must do the pre-lab before your section
  - The class was full on that last check, but there is always flux in the first week

- Lecture Topics:
  - A Bit About Me
  - Course Syllabus (information sheet)
  - Course Schedule
  - Grading Information and Policy
  - Review of Signal Types
  - Motivation: Digital Communications

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• About Me:
  • **Education**: Ph.D., University of California at Berkeley, 1994
  • **1995**: joined the faculty of the Dept. of EECS at the University of Michigan
  • **2006**: (came back) joined the faculty of the Dept. of EECS at UC Berkeley
  • **Research**: microelectromechanical systems (MEMS) that employ transistor-level circuit design
  • **Teaching**: (at the UofM) mainly transistor circuit design courses; (UC Berkeley) 105, 140, 143, 240A, W240A, 243, 245, 247B, W247B
  • **2001**: founded Discera, the first company to commercialize vibrating RF MEMS technology
  • **Mid-2002 to 2005**: DARPA MEMS program manager
    • ran 10 different MEMS-based programs
    • **topics**: power generation, chip-scale atomic clock, gas analyzers, nuclear power sources, navigation-grade gyros, on-chip cooling, micro environmental control

• Go thru Course Syllabus (information sheet)
• Go thru Course Schedule
• Go thru Grading Information and Policy
• All of these are online in the course homepage
• The course website is at
  • [https://inst.eecs.berkeley.edu/~ee105/fa20/](https://inst.eecs.berkeley.edu/~ee105/fa20/)
  • (or just google ee105)