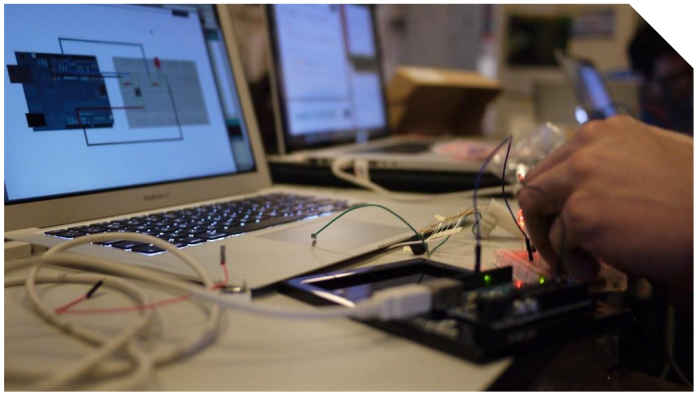
CoE 164

Computing Platforms

00: About the Course

HELLO!

Welcome to one of the laboratory components of your core CoE courses!



ICE BREAKING SESSION!

Check the polls!

WHAT YOU ALREADY KNOW...

- EEE 111
  - Basic programming
  - Computations
- EEE 137
  - Probability and statistics

WHAT YOU ALREADY KNOW...

- Math 40
  - Linear algebra
  - Matrix operations
- EEE 121
  - Basic programming
  - Data structures and algorithms
- EEE 153
  - Computer organization
  - Memory, cache, etc.

WHAT YOU ARE CURRENTLY STUDYING...

- CoE 161
  - Information theory
  - Computational complexity theory
- CoE 163
  - Computer algorithms and hardware

WHAT ARE GOOD TO KNOW...

- Knowledge of several programming languages
  - C/C++
  - Python
  - Matlab/Octave
  - Assembly (MIPS)

WHAT YOU'LL LEARN...

- How do we implement algorithms with efficiency in mind?
- Which tool(s) do I use to solve a computer engineering problem?
- Which tool is better in solving my problem?

SURPRISE REVIEW QUIZ!

Check the polls!

CLASS ARRANGEMENT

CoE 164 is **partially asynchronous**, meaning you will take this course **at your own pace** with materials provided to you. No synchronous meetings, unless informed in advance.

Any machine exercises will have **deadlines** (usually a week after release).

LEARNING TOOLS

- Decent internet connection
  - Exercise submission
- Access to a desktop, laptop, or smartphone
  - Programming exercises
  - Capstone exercise
  - Will try our best to either:
    - Make exercises solvable on slow computers
    - Lend a remote server (VPS) or platform for your programs
- Better to have a camera and microphone for synchronous meetings, if any

CLASS MATERIALS

- Slides/Study guides
- Resource/reading links
  - UP Microlab wiki
- Forums
  - UVLe
  - Piazza

CLASS REQUIREMENTS

- Academic output
  - Machine exercises
  - Machine problems
  - **NO** projects
- Grading rubric, late submissions, the specific stuff...
  - … to follow. ;(

INSTRUCTOR INFORMATION

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Lecturer
ME Electrical Engineering

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… or forums via UVLe (or Piazza)!

OTHER INSTRUCTORS

CoE 164 is co-taught with one other instructor from UCL:

- Nestor Michael C. Tiglao

OPEN FORUM

Enjoy and good luck with the course!

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