

CSE30101: Computer Architecture

JONGEUN LEE

SCHOOL OF ECE, UNIST

Course Information

■ Time and Classroom

- Mon & Wed 10:30-11:45am
- Classroom: 106-T202

■ Instructor

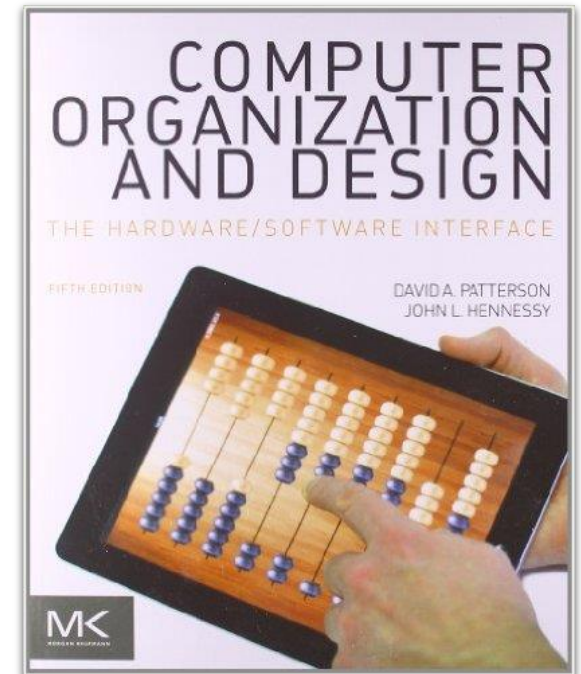
- Jongeun Lee, School of ECE, jlee at unist
- Office: 106-501-5
- Office hours: Wed 19:00 – 20:00, or by appointment

■ TA

- Sugil Lee (sglee17@unist.ac.kr)
- Office: 106-503 (reconfigurable and neuromorphic lab)

Textbook

- **Computer Organization and Design, 5th ed.:**
The Hardware/Software Interface
 - D. Patterson (UC Berkeley) & J. Hennessy (Stanford)
 - Winner of 2014 Textbook Excellence Award (“Texty”) from The Text and Academic Authors Association



What?

- Ch 1: Computer abstractions and technology
- Ch 2: Instruction-Set Architecture (ISA)
- Ch 3: Arithmetic for computers
- Ch 4: Processors (datapath, control, pipeline, etc.)
- Ch 5: Memory hierarchy (cache, virtual memory)
- Ch 6: Parallel and advanced computer systems (multi-core, multi-thread)



Design / Analysis

Prerequisites

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- Digital Logic (CSE201) or Digital System Lab. (CSE201)
- Systems Programming
- Object-Oriented Programming (CSE241)
or Proficiency in the C/C++ programming language

Important Notice

1. Remember and abide by the UNIST honor code

For detail, see: [ACADEMIC INTEGRITY \(UNIST ECE\) v1.0.DOCX](#)

2. If you miss 25% of classes, you will get an automatic **F grade (UNIST policy)**

3. Having your ID card read without actually showing up in class, or any other form of proxy attendance, is a violation of the UNIST honor code, with consequences

**4. Projects are an integral part of this course;
Failure to submit for one or more projects may result in an **F grade** irrespective of other portions' score**

5. Instructor reserves the right to give an **F grade for those who show very poor performance**

Logistics

■ Classrooms

- First 2 weeks: Bb Collaborate
- From **March 30**: back to classroom (106-T202)
- Makeup classes: **April 4, April 18** (same time, same classroom)

■ Bb

- Q&A Forum
- Subscribe !

■ IT tools

- Windows PC for MIPS simulator
- Linux for project submission (**uni06**.unist.ac.kr)
- Need to know how to use “ssh” (e.g., **putty** from Windows machine)

Grading

- **10% Attendance + on/off-line participation**
- **30% Assignments (Homework, Projects, etc.)**
- **30% Midterm exam**
- **30% Final exam**
- **Note**
 - C/D/E/F will be given to those showing very low performance
 - But if you work diligently, it won't be difficult to get B-level or above
 - F if you miss one out of four classes (UNIST policy)