

Computer Organization (EE3035)

Time / Location: Monday 14:00-14:50 (E1-124), Tuesday 13:00-14:50 (E1-124)

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Office Hours: Wednesday 13:00-14:00; other time by appointment only.

Teaching Assistant:

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- 林慶和, office: E1-359 (ext:34577), Email: saal601601@yahoo.com.tw

Prerequisites: Introduction to Computer, Introduction to Digital System

Text Book: David A. Patterson, and John L. Hennessy, “Computer Organization and Design -- The Hardware/Software Interface”, 5th Edition (Asian Edition), Elsevier Taiwan LLC, 2014. ISBN: 978-986-6052-67-5.

Course Contents:

- Computer Abstractions and Technology
- Instructions: Language of the Computer
- Arithmetic for Computers
- The Processor
- Exploiting Memory Hierarchy
- Parallel Processors from Client to Cloud (optional)

Grading:

Homework: 20%
Project: 20%
Midterm: 30%
Final Exam: 30%

On-Line Resources: Lecture notes are available at NCU learning management system (<https://lms.ncu.edu.tw>). For other course-related information, please refer to my personal website <http://www.ee.ncu.edu.tw/~jimmy/courses/ORG14>

Academic Honesty: Cheating is very uncivilized behavior and is to be avoided at all cost. Oral discussion about homeworks is not considered cheating. Copying someone else’s homeworks / tests or part of a homework / test is cheating. If cheating is discovered, all students involved will receive no credit for the homework / test and possibly get an F grade for the course.