

CSE 331/503: Computer Organization

Fall 2023 Course Syllabus

Instructor: Alp Arslan Bayrakçı

Contact info: Comp. Engr., room 241
abayrakci@gtu.edu.tr

Office Hour: Thursday 12:30-13:30

Teaching Assistants: Sibel Gülmez **e-mail:** sgulmez2018@gtu.edu.tr

Course page: Teams – All lecture notes and announcements on Teams.

Classes: Wednesday 14:00 - 17:00, Z23

Textbook: *Computer Organization and Design: The Hardware/Software Interface*, Fourth Edition, by David A. Patterson and John L. Hennessy, published through Morgan Kaufmann

Grading policy:

Quizzes (2)	12%
Projects/HW	28%
Midterm examination	25%
Final examination	35%

This breakdown is tentative and subject to change

Course Overview: CSE 331 covers basic computer organization and systems programming. We will cover the following topics:

- Computer Performance
- Instruction Set Architecture
- Computer Arithmetic
- Single Cycle MIPS
- Pipelining
- Cache
- Virtual Memory

Rules: Attendance with less than 70% results in NA.
Students not attending the final will get FF.

Pre-requisite: CSE 232 Logic Circuits and Design

Academic Honesty: All students are expected to demonstrate personal integrity. Each student must show his/her individual effort. Exchange of information during in-class examinations as well as copying Hw or Project solutions from each other is strictly prohibited. The plagiarism is more than an ethical problem concerning one's self, because by cheating, one also prepares his/her friends' failure in the course.

The course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary.