

CSE 4302 / CSE 5302 / ECE 5402 – Computer Architecture – Fall 2025

Class Meeting Time: Tue/Thu 12:30pm-1:45pm, ITE 119

Instructor: Prof. Omer Khan

Email: khan@uconn.edu

Office Hours: In person (ITE 447) after class or by appointment via email

Course website: https://cag-uconn.github.io/courses/comparch_f25/index.html

Course Overview: This course represents a serious introduction at a senior undergraduate and introductory graduate level into how computers work. Computing involves architecture at many levels. We will focus on the instruction set architecture level (sometimes called the machine architecture) and the microarchitecture level (often called the implementation architecture). We will review to some extent the level below the microarchitecture (the logic design level), relying mainly on the knowledge you already have obtained, and we will cover to some extent the level above the instruction set architecture (program translation) in order to demonstrate our understanding of some of the concepts. The intent of the course is to provide a comprehensive understanding of how the various levels interplay and answer the question of how the machine works.

Textbook (recommended supplement to lectures): John L. Hennessy and David A. Patterson, Computer Architecture A Quantitative Approach, Fourth Edition, ISBN 0123704901

Grading Policy CSE 4302:

Midterms 1 and 2	35%
Final Exam	30%
Homework & Programming Assignments	35%

Grading Policy CSE 5302/ ECE 5402:

Midterms 1 and 2	35%
Final Exam	20%
Research Papers Review	10%
Homework & Programming Assignments	35%

Rules and Guidelines:

- * The final letter grade will be assigned using a grade curve
- * Participation in class discussion and attendance of lectures is *strongly encouraged*
- * Late submission of assignments will *not* be accepted
- * Completion of programming assignments is *required*
- * Makeup exams will be given only in extraordinary circumstances with excused absence obtained in advance except under very rare circumstances. All exams will be closed book, with no exceptions
- * The ECE Department takes the issue of academic integrity in education and research very seriously. Any instances of academic and scholarly misconduct (cheating, plagiarism, falsification/distortion of data, etc.), if substantiated, will have major consequences for the student. Please read the academic misconduct policy at <https://community.uconn.edu/academic-misconduct/>
- * Students with Disabilities: The Center for Students with Disabilities (CSD) at UConn provides accommodations and services for qualified students with disabilities. If you have a documented disability for which you wish to request academic accommodations and have not contacted the CSD, please do so as soon as possible. The CSD is located in Wilbur Cross, Room 204 and can be reached at (860) 486-2020 or at csd@uconn.edu. Detailed information regarding the accommodations process is also available on their website at www.csd.uconn.edu.