Advanced Computer Org

Course prefix: CS

Course number: 4290

Section: A

CRN
82094

Instructor first name: Milos

Instructor last name: Prvulovic

Semester: Fall

Academic year: 2026

Course description: Topics concerning the hardware design of computer systems. Advanced techniques in high-performance pipelined central processing units. Memory and I/O systems. Parallel processors including shared-memory multiprocessors and cluster computers. Credit is not allowed for both CS 4290 and any of the following courses: CS 6290, ECE 4100, ECE 6100.

Academic honesty/integrity statement:

Students are expected to maintain the highest standards of academic integrity. All work submitted must be original and properly cited. Plagiarism, cheating, or any form of academic dishonesty will result in immediate consequences as outlined in the university's academic integrity policy.

All assignments submitted through Canvas will use Turnitin software for AI/Plagiarism detection. The use of AI in this class is not acceptable for any assignment and will be penalized if detected up to receiving a zero and submission to OSI for further consideration if it so warrants.

Core IMPACTS statement(s) (if applicable):

INTA 1110   Introduction to International Relations

This is a Core IMPACTS course that is part of the Social Sciences area.

Core IMPACTS refers to the core curriculum, which provides students with essential knowledge in foundational academic areas. This course will help students master course content, and support students' broad academic and career goals.

This course should direct students toward a broad Orienting Question:

- How do I understand human experiences and connections?

Completion of this course should enable students to meet the following Learning Outcome:

- Students will effectively analyze the complexity of human behavior, and how historical, economic, political, social, or geographic relationships develop, persist, or change.

Course content, activities and exercises in this course should help students develop the following Career-Ready Competencies:

- Intercultural Competence
- Perspective-Taking
- Persuasion