CE4304 - Computer Architecture

**CE 4304** Computer Architecture (3 semester credit hours) Introduction to computer organization and design, including the following topics: CPU performance analysis. Instruction set design, illustrated by the MIPS instruction set architecture. Systems-level view of computer arithmetic. Design of the datapath and control for a simple processor. Pipelining. Hierarchical memory. I/O systems. I/O performance analysis. Multiprocessing. Credit cannot be received for both courses, (**CS 3340** or **SE 3340** or **TE 3340**) and (**CE 4304** or **EE 4304**). Prerequisite: **CE 3320** or **EE 3320**. (Same as **EE 4304**) (3-0) S