CS 3340 - Computer Architecture

**CS 3340** Computer Architecture (3 semester credit hours) This course introduces the concepts of computer architecture by going through multiple levels of abstraction, and the numbering systems and their basic computations. It focuses on the instruction-set architecture of the MIPS machine, including MIPS assembly programming, translation between MIPS and C, and between MIPS and machine code. General topics include performance calculation, processor datapath, pipelining, and memory hierarchy. Credit cannot be received for both courses, (**CS 3340** or **SE 3340** or **TE 3340**) and (**CE 4304** or **EE 4304**). Prerequisites: (**CE 1337** or **CS 1337** or **TE 1337** with a grade of C or better or equivalent) and (**CE 2305** or **CS 2305** or **TE 2305** with a grade of C or better). (Same as **SE 3340** and **TE 3340**) (3-0) S