## ECE 3170: Computer Architecture

Fundamentals of instruction set architecture (ISA) and processor & memory organization. Topics include ISA, arithmetic circuits, register file, single-cycle, multi-cycle, and pipelined microarchitecture, memory operation, cache, virtual memory, parallel architectures.

Credits: 3.0 Prerequisites: ECE 2170 ECE 2172 ECE 2173 ECE 2170 and ECE 2172 and ECE 2173 Co-Requisites: ECE 3171 ECE 3171 Program: Electrical and Computer Engineering