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
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