

# ECE 8425: Microproc & Microcomp

Advanced study of hardware and software concepts necessary for the design of 32-bit microprocessor-based systems. Topics: (for a widely-used 32-bit microprocessor) addressing modes, instruction set, input/output, and interrupts with examples taken from the areas of computer engineering, signal processing and communication. The course includes a student analysis/design project and laboratory work involving a 32-bit processor. Prerequisite: Undergraduate background in microprocessors (equivalent to ECE 3490).

**Credits:** 3.0

**Program:** Electrical and Computer Engineering