

# Cp E 421: Embedded Systems Design Electrical and Computer Engineering

Characteristics of embedded computing applications; performance metrics in embedded systems; embedded system design process;

microcontroller/CPU/SoC/DSP ISAs; processes and operating systems; RTOSes; peripheral busses; networking and distributed embedded architectures; interfacing with memory; analog I/O.

3 Credits

# Prerequisites

- El E 351: Electronics Circuits I
- El E 485: Microprocessor Systems Engineering
- El E 486: Microprocessor Systems Engr Lab

### Instruction Type(s)

• Lecture: Lecture for Cp E 421

### **Subject Areas**

• Computer Engineering, General

### **Related Areas**

<u>Computer Hardware Engineering</u>

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