

## **Cp E 421: Embedded Systems Design**

### **ELECTRICAL 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: Models and 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**

- [Computer Hardware Engineering](#)

