

## 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

- [EI E 351: Electronics Circuits I](#)
- [EI E 485: Microprocessor Systems Engineering](#)
- [EI 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](#)

