

## **Cp E 431: Computer Architecture**

### **Electrical and Computer Engineering**

Computer Architecture: instruction set architecture; single-cycle, FSM, and pipelined processor microarchitecture; hazards; memory technology; caches; memory protection, translation, and virtualization; FSM and pipelined cache microarchitecture; integration of processors and memories; performance analysis; superscalar execution; multiprocessors.

3 Credits

### **Prerequisites**

- [El E 485: Microprocessor Systems Engineering](#)
- [El E 385: Advanced Digital Systems](#)

### **Instruction Type(s)**

- Lecture: Lecture for Cp E 431

### **Subject Areas**

- [Computer Engineering, General](#)

### **Related Areas**

- [Computer Hardware Engineering](#)

