

# Cp E 431: Computer Architecture ELECTRICAL 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

