

# COSC204 (new course in 2022)

- Introduction to computer architecture
- Digital logic and the CPU
- From machine code to assembly (6502, Apple CPU, using simulator)
- From assembly to C
- Fundamentals of C programming
- Pointers and memory management in C
- C as a systems programming language
- Operating systems fundamentals
- Processes, threads, and scheduling
- Memory and storage
- File systems and I/O
- Current trends in computer systems

# COSC302 (new course in 2023)

- 1. Introduction to IoT (1)
- 2. IoT hardware components and platforms (2)
- 3. IoT Software platforms and programming environments (5)
- 4. Data curation and pre-processing (3)
- 5. IoT network architecture and protocols (3)
- 6. IoT-Cloud and IoT-web (2)
- 7. IoT storage and analytics (4) (HADOOP, CUDA, GPU)
- 8. IoT security, privacy, and ethics issue (2)
- 9. IoT application development (4)