

ECE 379: Introduction to Computer Engineering

Final Exam: Tuesday, May 9, 10:05am-12:05pm, EH3418

Exam guidelines:

- Closed book, closed notes
- No calculators, computers, or other electronic devices
- Paper and pencil only
- One page (8.5" x 11") cheat sheet (can be double-sided)

Exam topics:

- Cumulative coverage of Midterm 1 and Midterm 2 (Chapters 1-7, Chapter 9 section 2)
- Chapter 8
 - Input/output basics
 - Keyboard input
 - Console/display output
 - Interrupt-driven I/O
- Chapter 9, section 1
 - LC-3 Traps
 - Saving/restoring registers
- Introduction to computer architecture
 - Single-cycle datapath
 - Pipelining
 - Branch prediction
 - Simple cache memories
 - Basics of multiple issue
 - Basics of out-of-order issue
 - Basics of multiple processors

Problems for review:

- Chapter 8: 8.1-8.16
- Chapter 9: 9.1-9.8, 9.10-9.11