

# Midterm 2 Overview




Basic Information

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# Midterm Information 2

- 50 minutes
- May contain multiple choice and short answer questions



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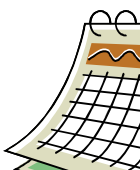
# What Will Be Covered

- Midterm will cover Parts 5 to 8
- Lab activities
- No question will be asked that is not in the lecture notes
- Download from: [athena.ecs.csus.edu/~dcook/35](http://athena.ecs.csus.edu/~dcook/35)

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# Midterm Time & Date


- Section 1 & 4
  - Wednesday, April 24
  - Normal class time
- Section 12
  - Thursday, April 25
  - Normal class time



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# What you need to bring

- Booklets will be provided for the midterm
- So, you only need to bring a pen or pencil
- No** electronics allowed
- No** notes allowed



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# Memory Indexing




Part 5

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### Part 5 – Important to Understand

- Immediate
- Direct
- Indirect
- Tables
- Buffer Overflow
- Endianness

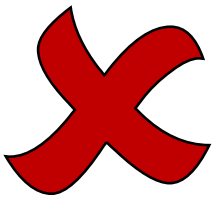


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### Part 5 – Don't Worry About

- The example Endianness of different file types



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### Control Logic

Part 6

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### Part 6 – Important to Understand

- Unconditional Jumps
- Conditional Jumps
- If Statements
- While Loops
- Switch Statements



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### Part 6 – Don't Worry About

- *Know it all*



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### Arithmetic Logic Unit

Part 7

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### Part 7 – Important to Understand

- Binary Math
- Signed numbers
- Sign extension
- Intel multiplication
- Intel division
- Flags
- How Compare Works




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### Part 7 – Don't Worry About

- The individual flags
- The Unsigned Jumps (but understand why there are two sets).



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## Operating Systems

Part 8

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### Part 8 – Important to Understand

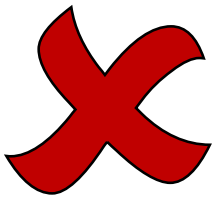
- System stack
- Privileged vs User mode
- Interrupts
- Vector Table
- API



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### Part 8 – Don't Worry About

- The actual UNIX system call codes



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