#### Lecture 36 — Course Review

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# **Exam Coverage**

The exam is based on material we have covered in the lectures & labs.

The exam is cumulative: covers from the first lecture to the last.

Lab material you are expected to know covers Labs 1 through Lab 5.

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Lecture 1: Introduction

Lecture 2: Review of Computer Architecture

Lecture 3: OS Structure and Traps

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**Lectures: Processes** 

Lecture 4: Processes

Lecture 5: Process State

Lecture 6: Processes in UNIX

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Lecture 7: Inter-Process Communication

Lecture 8: Threads

Lecture 9: POSIX Threads

Lecture 10: Symmetric Multiprocessing

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Lecture 11: Concurrency & Atomicity

Lecture 12: Semaphores

Lecture 13: Classical Synchr. Problems

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Lecture 15: Deadlock

Lecture 16: Deadlock Avoidance

Lecture 17: Deadlock Detection & Recovery

Lecture 18: Concurrency/Synchr. in POSIX

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**Lectures: Memory** 

Lecture 19: Memory

Lecture 20: Dynamic Memory Allocation

Lecture 21: Segmentation & Paging

Lecture 22: Caching

Lecture 23: Virtual Memory

Lecture 24: Virtual Memory II

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Lecture 25: Uniprocessor Scheduling

Lecture 26: Scheduling Algorithms

Lecture 27: Scheduling, Idling, Priorities

Lecture 28: Multiproc./Realtime Scheduling

Lecture 29: Scheduling UNIX/Linux/Windows

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Lecture 30: I/O Devices, Drivers

Lecture 31: Disk Scheduling

Lecture 32: File System Interface

Lecture 33: File System Implementation

Lecture 34: File Allocation Methods

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# Lectures: Virtualization

Lecture 35: Virtualization

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### **Basic Exam Information**

Date of Exam: Thursday, 13 August 2015

Time Period: Start: 09:00. End: 11:30

Duration of Exam: 150 minutes
Exam Type: Closed Book

Additional Materials: Non-Programmable Calculators

We are writing in: PAC Check Odyssey for your assigned seat.

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#### **Exam Instructions**

- No aids are permitted except for non-programmable calculators.
- 2 Turn off all communication devices.
- There are four (4) questions, some with multiple parts. Not all are equally difficult.
- The exam lasts 150 minutes and there are 100 marks.
- If you feel like you need to ask a question, know that the most likely answer is "Read the Question". No questions are permitted. If you find that a question requires clarification, proceed by clearly stating any reasonable assumptions necessary to complete the question. If your assumptions are reasonable, they will be taken into account during grading.

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#### **Exam Stats**

Preliminary statistics on the exam:

- About 70% of the exam is post-midterm material
- About 20% of the exam is C programming

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## How to Prepare

How to prepare for the final exam:

- Review lecture notes and slides.
- 2 Review the tutorial slides.
- 3 Understand your lab solutions.
- 4 Try old exams.
- 5 Ask for extra help if you need it (we have 3 TAs + 1 instructor).

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#### Tips for the Exam:

- 1 Take the time to read the question carefully.
- 2 You can use point form instead of full sentences.
- 3 Don't leave questions blank Nothing on the page = 0 marks.
- 4 Do the questions you know (or find easy) first, then move on to more challenging ones.
- 5 Keep an eye on the time.
- 6 Sleep the night before (all nighters are bad).

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### **About Grades**

No grades can be released until after the end of exams.

You'll see them in Quest when grades for the term become available.

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