

Midterm Review

CSE421

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Exam Place and Time

- ◆ Date : Oct.10, 2002 Tuesday
- ◆ Time : 2.00 – 3.20pm
- ◆ Place : 216 NSM
- ◆ Please bring
 - calculators
 - 2 A4-size sheets of any information you may need.
 - Pencils, pens and erasers.

Topics

- ◆ Nachos: Roadmap
- ◆ Project 1
- ◆ Operating System Structures: Chapter 3
- ◆ Processes: Chapter 4
- ◆ Threads including Nachos Threads: Chapter 5
- ◆ CPU Scheduling: Chapter 6
- ◆ Mutual Exclusion, Synchronization and Inter-Process Communication models: Chapter 7
- ◆ Class notes on all the chapters

Specific Sections

- ◆ Ch.3: 3.1-- 3.3
- ◆ Ch.4: 4.1 -- 4.4
- ◆ Ch.5: 5.1 – 5.3
- ◆ Ch.6: 6.1 – 6.5
- ◆ Ch.7: 7.1 – 7.7
- ◆ For all the chapters also study the class notes which is available on line
- ◆ Nachos: Syscall API and Exception handling

Format

- ◆ 6 major questions 20 points each; may have many subsections. The points scored will be scaled down to 100 (percent)
- ◆ Each question may have many subsections

Tentative Question Topics

- ◆ System call
- ◆ Process Scheduling: including real time scheduling
- ◆ IPC models: Producer/Consumer, Reader/writer, etc.
- ◆ Synchronization at various levels: lock, semaphores, monitors
- ◆ Thread description and control
- ◆ Process description and control