

EXAM 1 STUDY GUIDE

Study Tips: I would start by looking at the "Exercises" at the end of each chapter and seeing if you can answer them. After that, I would just skim back over the chapters, focusing mostly on the concepts instead of the code.

Covered Chapters: 1,2,4,5,6,7

Material Not Covered In Textbook: You will want to know how to run four scheduling algorithms: First-Come-First-Served, Priority, Shortest-Job-First, and Round Robin. Given a set of processes and their burst times, you should know how to draw the Gantt Chart for the simulation. We will go over this in class.

Major Concepts: Operating Systems Overview, Processes, Lists, Queues, Semaphores, Scheduling, Context Switching, Producer-Consumer, Mutual Exclusion, System Calls

Other Things To Know: Know the diagram showing the various states a process goes through (Figure 7.1), know how to read code that uses semaphores, and know some of the design decisions that XINU has chosen specifically (such as that it uses a hybrid of priority-based scheduling and round-robin scheduling).