

CECS 326-01 Chapter Exam 2 Study Guide

Exam 2 is scheduled on 9/28/2021. Exam questions are mostly objective that include multiple choice, and true or false. The exam covers first half of Chapter 3: Processes (up to slide 22 in Lecture Notes). It is important to understand, for each of the following terms, what it is, what it is for, and all relevant concepts related to it in operating systems.

- Process, address space of a process
- Process states, and their transition
- Process control block, and what information is maintained in it
- Context switch, and what takes place when it happens
- Process scheduling, and what can cause scheduling event to occur
- Operations on processes, including process creation, process termination, and interprocess communication (IPC)
- Issues to be addressed in the implementation of process creation and process termination
- System calls on Linux related to process creation: `fork()`, `exec()`, and example code for their use
- System calls on Linux related to process termination: `exit()`, `wait()`, `abort()`, and example code for their use
- Parent and child processes, how they can interact on Linux, and what happens when parent or child terminates
- IPC, why needed, and common models