CSc 720: Advanced Operating System

Course number	CSc 720
Course title	Advanced Operating Systems
Number of credits	3
Schedule	Three hours of lecture/discussions per week
Prerequisites	Grade B or better in CSc 415
Text	No textbook. All material is available at http://tos.sfsu.edu.

Syllabus

Objectives:

- Apply knowledge of Operating Systems to implement a simple x86-based OS.
- Provide in-depth knowledge of the IBM PC architecture and the Intel x86 CPU.
- Explain system-level programming techniques.

Course Overview:

- Implementation techniques for Process Control Block (PCB),. Inter Process Communication (IPC), Interrupt handling via Interrupt Service Routines (ISR), handling of concurrency and race conditions, device driver for RS232. At the end of the semester students have to implement a shell and a complex train-controlling application.

Grading

Quizzes:	60%
Programming Project:	40%

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7/22/15