CS501: Systems Administration

Logistics:
Instructor: Derek Flynn               Lecture: 5:30-8:30 T               Location: Ryerson 251
TA: Neil Klopfenstein               Intermission: 6:50-7:10             Office Hours: 8:30-9:30 T

Dates:
Jan 11: Lecture 1                 Feb 01: Lecture 4                Feb 22: Lecture 6                Mar 14: Final
Jan 18: Lecture 2                 Feb 08: Midterm                 Feb 29: Lecture 7                Mar 16: Grades Returned
Jan 25: Lecture 3                 Feb 15: Lecture 5                Mar 07: Review

Syllabus:

Lecture 1: Introduction
- Course logistics
- The UNIX environment
- Shell programming

Lecture 2: Booting & Startup
- Role of supervisor applications
- Sequence of events at startup
- Init: Run levels

Lecture 3: Basic administrative tasks
- Adding/removing users
- Adding/removing software
- Adding/removing resources

Lecture 4: Networking
- Review of IP networking
- Interface configuration, routing
- Services & Their Clients

Lecture 5: Entropy
- NIS
- NFS/Automounter
- Rdist

Lecture 6: Essential Services
- DNS
- Email
- FTP, WWW

Lecture 7: Security
- Logging
- Firewalling
- Recovering from a compromise

Review:
- Stand-alone hosts & Basics
- Networking & Services
- Entropy & Security

Grading:
Lectures 2 through 7 have quizzes. Each quiz will be handed out 5 minutes after class begins, and will be picked up 10 minutes later. Students who arrive after the quiz has been picked up will receive a zero for that quiz.
Lectures 1 through 7 have homework assignments due immediately after the following lectures intermission.
Grading will be 25% homework, 25% quizzes, 25% midterm, 25% final. Each student's lowest quiz and homework grades will be dropped.

Textbook: