

CS501: Systems Administration

Logistics:

Instructor: Derek Flynn
TA: Neil Klopfenstein

Lecture: 5:30-8:30 T
Intermission: 6:50-7:10

Location: Ryerson 251
Office Hours: 8:30-9:30 T

Dates:

Jan 11: Lecture 1
Jan 18: Lecture 2
Jan 25: Lecture 3

Feb 01: Lecture 4
Feb 08: Midterm
Feb 15: Lecture 5

Feb 22: Lecture 6
Feb 29: Lecture 7
Mar 07: Review

Mar 14: Final
Mar 16: Grades Returned

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:

The textbook for the course is "UNIX *System Administration Handbook*," 2nd Ed., ISBN 0131510517.