## Intermediate System Administration Course Syllabus

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This is the current schedule of topics. We should be able to devote a lecture to each of the main topics.

- 1. history
  - UNIX
  - Linux
- 2. shell
  - C vs. bourne
  - command structure
  - redirection
  - wildcards
  - environment
  - shell scripting
  - tab completion
- 3. file system
  - navigation
  - mount
  - directory structure
  - common package directories
  - quotas
- 4. software
  - compiling software
  - package management
- 5. authorization
  - permissions
  - ACLs
  - passwd
  - group
- 6. authentication
  - pam
  - NIS/LDAP/etc...
- 7. networking
  - OSI layers
  - SYN/ACK handshake
  - NTP
  - DNS
  - NAT
  - DHCP
- 8. lamp
  - apache
  - mysql
  - php

- - MUAs
  - pine

10. security

- swatch
- snort
- iptables

These topics, while important, will probably not get involved enough to devote an entire lecture to. They will be worked into the main lecture schedule as the subjects pertain to the main topics.

- filters
  - sort
  - cut
  - uniq
  - head
  - tail
- logs
  - auth
  - mail
  - syslog
  - messages
  - apache
- process control
  - signals
  - job control
- searching
  - find
  - grep
  - sed
  - awk
- text editors
  - vim
  - emacs
- scheduling
  - cron
  - at/batch

- 9. mail
  - MTAs
  - MDAs

  - mutt