CSE 490c Midterm Topic List -- May 5, 2004

This is a brief list of some of the topics we've covered so far this quarter. You are responsible for anything on this list, as well as anything else that we have covered in lecture, discussion, homework, or readings. As a reminder, the midterm is in-class, open-book, open-notes, and closed-computer.

- Unix
  - Shell and basic commands
  - Advanced commands (grep, find, sed, diff, etc.)
  - Regular expressions
  - Emacs
  - Redirecting output
  - Shell scripts

- Development Tools
  - IDE vs. Tool suite
  - Editors, interpreters, compilers, virtual machines, linkers, debuggers, etc.
  - Debugging with JDB
  - Make

- Programming in Groups
  - Benefits and Challenges
  - CVS
  - Pair Programming

- Programming for Correctness
  - Specifications (pre/post conditions, invariants)
  - Assertions
  - Documentation
  - Testing
  - Defensive Programming
  - Programming for Change

- Social Impact Discussions
  - Intellectual Property
  - Digital Rights Management
  - Software Failures