CMPS 105 **System Programming** **Fall 2005**

`http://www.soe.ucsc.edu/classes/cmps105/`

- **Course:** System Programming
- **Time & Place:** Mondays, Wednesdays and Fridays 11:00am-12:10pm, Baskin Engineering, Room 156.
- **Discussion/Lab Sections:**
- **Time & Place:** tbd
- **Instructor:** Dean Bailey; office: E2-249B; phone: 459-1339, e-mail: dbailey@soe.ucsc.edu
- **Teaching Assistant:** tbd.
- **Office Hours:**
  - Bailey: Mondays and Wednesdays 2:00pm-3:15pm.
  - TA: tbd
- **Required Textbook:** *Advanced Programming in the UNIX Environment 2nd Edition*, by W. Richard Stevens, Stephen A. Rago, Addison-Wesley.
- **Goal:** To cover most of the material contained in Chapters 1 through 15.
- **Syllabus:** The chapter headings are a tentative syllabus for the course:

  Introduction
  UNIX Standardization and Implementations
  File I/O
  Files and Directories
  Standard I/O Library
  System Data Files and Information
  Environment of a UNIX Process
  Process Control
  Process Relationships
  Signals
  Terminal I/O
  Advanced I/O
  Daemon Processes
  Interprocess Communication
  Advanced Interprocess Communication

- **Evaluation:** The course work will be weighted as follows:

Final Examination	40%
One Midterm Examination	30%
Programming Assignments	30%

- **Examination Schedule:**
  1. Final Examination, Wednesday, December 7, 2005, 12:00noon-3:00 p.m.
  2. Midterm Examination on Monday, October 31, 2005, 11:00 a.m.-12:10 p.m.

     The examination schedule is fixed. In particular, requests for changes in the schedule will not be accommodated; if you have conflicts with this schedule, please do not enroll in the class. Also, *no* time extension will be given for late arrivals on examination days.
- **Academic Integrity:**

- No form of academic dishonesty will be tolerated.
- You are encouraged to discuss the course material and concepts with other students in the class. However, all work that you submit must be your own. Under no circumstances may you look at anyone else's code or show anyone else your code. And while you may discuss the concepts and techniques used in the programming assignments, you may not discuss implementation details of the assignments themselves.
- Incidents of academic dishonesty will be reported according to UCSC's policy on academic integrity, the full text of which can be found at `http://oasas.ucsc.edu/avcue/integrity`
- Specifically for this class, if you are caught turning in work as your own, that is not solely your own, or assisting others in doing so, a formal written report will be sent to your Department, the School of Engineering, and to your Provost and academic preceptor. Furthermore you will get a failing grade for the course and the incident will be noted in your evaluation.

- **Other interesting textbooks, NOT required:**
  - *UNIX Systems Programming for SVR4*, by David A. Curry.
  - *Practical UNIX Programming: A Guide to Concurrency, Communication, and Multithreading*, by Kay. A. Robbins and Steven Robbins.
  - *Advanced UNIX Programming, 2ed.*, by Marc J. Rochkind.