

# CS 270 – System Software

Course Syllabus

Spring 2019

**Instructor:** Bruce Bolden JEB 232    bruceb@cs.uidaho.edu

**Text:**     *LINUX for Programmers and Users*, Graham Glass & King Ables, Prentice-Hall, 2006  
           *The C Programming Language*, Kernighan & Ritchie, Prentice-Hall, 1988

| Week                                      | Day     | Topic   | Text/Ref       |
|---|---------|---|----------------|
| 1   | Jan 9   | W Introduction, orientation, history                | Chap 1         |
|   |         | F History, C executable concepts                    | Chap 1         |
| 2   | 14      | M C compilation process                             | Notes          |
|   |         | W C compilation - multimodule compilation           | Notes          |
|   |         | F Basic UNIX Commands                               | Notes          |
| 3   | 21      | M *** MLK - Idaho Human Rights Day - NO Classes *** |                |
|   |         | W Basic UNIX Commands                               | Chap 2         |
|   |         | F Basic UNIX Commands                               | Chap 2         |
| 4   | 28      | M The UNIX file system                              | Chap 14, Notes |
|   |         | W The UNIX file system                              | Chap 14, Notes |
|   |         | F Advanced UNIX Commands                            | Chap 3         |
| 5   | Feb 4   | M Advanced UNIX Commands                            | Chap 3         |
|   |         | W UNIX Shells                                       | Chap 4         |
|   |         | F UNIX Shells                                       | Chap 5, 6      |
| 6   | 11      | M Shell Programming                                 | Chap 7, 8      |
|   |         | W Shell Programming                                 | Chap 7, 8      |
|   |         | F Shell Programming                                 | Chap 7, 8      |
| 7   | 18      | M *** President's Day - NO Classes ***              |                |
|   |         | W Scripting Languages - Perl                        | Chap 3, Notes  |
|   |         | F Scripting Languages - Perl                        | Chap 3, Notes  |
| 8   | 25      | W Scripting Languages - Perl                        | Chap 3, Notes  |
|   |         | W Scripting Languages - Perl                        | Chap 3, Notes  |
|   |         | F *** Test 1 ***                                    |                |
| 9   | Mar 4   | M Networking  | Chap 9, Notes  |
|   |         | W Networking  | Chap 9, Notes  |
|   |         | F The Internet                                      | Chap 11, Notes |
| 11 - 15 *** Spring Break - NO Classes *** |         |   |                |
| 10  | 18      | M The Internet                                      | Chap 11, Notes |
|   |         | W The executable Environment                        | Notes          |
|   |         | F The executable Environment                        | Notes          |
| 11  | 25      | M C Programming Tools - ld                          | Chap 12        |
|   |         | W C Programming Tools - ld                          | Chap 12        |
|   |         | F C Programming Tools - libraries                   | Chap 12        |
| 12  | April 1 | M Systems Programming - Pipes                       | Chap 13        |
|   |         | W Systems Programming - Sockets                     | Chap 13        |
|   |         | F Systems Programming - Sockets                     | Chap 13        |
| 13  | 8       | M Systems Programming - System Calls                | Chap 13        |
|   |         | W *** Test 2 ***                                    | Chap 13        |
|   |         | F Systems Programming - File Operations             | Chap 13        |

| Week | Day      | Topic                                      | Text/Ref |
|------|----------|--|----------|
| 14   | April 15 | M Systems Programming - File Operations    | Chap 13  |
|      |          | W Systems Programming - Process management | Chap 13  |
|      |          | F Systems Programming - Signals            | Chap 13  |
| 15   | April 22 | M C Programming Tools - make               | Chap 12  |
|      |          | W C Programming Tools - make               | Chap 12  |
|      |          | F Systems Programming - System Calls       |          |
| 16   | 29       | M System Administration                    | Chap 15  |
|      |          | W System Administration                    | Chap 15  |
|      |          | F Final Exam Review                        |          |

**Final:** XXXday, May ??, ??:00 – ??:00 PM

### Grading:

The letter grade you receive from the course will be determined as follows:

|       |   |      |   |
|-------|---|------|---|
| 90%   | - | 100% | A |
| 89.9% | - | 80%  | B |
| 79.9% | - | 70%  | C |
| 69.9% | - | 60%  | D |
| 59.9% | - | 0%   | F |

The instructor reserves the right to adjust these percentages lower if deemed necessary.

### Center for Disability Access and Resources (CDAR) Reasonable Accommodations Statement

Reasonable accommodations are available for students who have documented temporary or permanent disabilities. All accommodations must be approved through the Center for Disability Access and Resources located in the Bruce M. Pitman Center, Suite 127 in order to notify your instructor(s) as soon as possible regarding accommodation(s) needed for the course. Phone: 208-885-6307

Email: [cdar@uidaho.edu](mailto:cdar@uidaho.edu)

Website: [www.uidaho.edu/current-students/cdar](http://www.uidaho.edu/current-students/cdar)

### Academic Dishonesty

Academic Dishonesty will not be tolerated in this course. The following are examples of violation of normal academic integrity:

**Cheating** Using or attempting to use unauthorized materials, information, or study aids in any academic exercise. The term “academic exercise” includes all forms of work submitted for a grade earned in a course that generates credit hours.

**Fabrication** Falsification or invention of any information or the source of any information in an academic exercise.

**Collusion** Intentionally or knowingly helping or attempting to help another to commit an act of academic dishonesty.

**Plagiarism** Copying or imitating the language, ideas, and/or thoughts of another author and passing off the same as one's original work.

If academic dishonesty is suspected, I will withhold a grade until we have discussed the circumstances. Any work that I determine is dishonest will receive an automatic F and you may receive an F for the course. I will also forward a report of the incident to the Dean of Students for prosecution in accordance with the University of Idaho Student Code of Conduct.

Do your assignments on your own. Consulting with friends is permitted. However, blatant copying will not be tolerated and will be dealt with according to the guidelines on academic dishonesty: University of Idaho Academic Integrity.