# Syllabus  {September 29, 2008}

| Date | | Topic | Reading and Assignments |
|------|---|-------|-------------------------|
| 1.  Aug 28 | Th | introduction | |
| 2.  Aug 29 | F | Unix  Basics | Basic Unix web site |
| 3.  Sep  2 | Tu | introduction to C | printf, primitive types, scanf |
| | | | #include, #define, if, sizeof, for |
| **Sep 3** | **W  LAB 1** | **The Mechanics of  Creating and Running Programs under Unix** | |
| 4.  Sep  4 | Th | functions | D&D Chapter 5 |
| 5.  Sep  5 | F | arrays, call-by-value | D&D Chapter 6 |
| | | call-by-reference | **Program 1 Due at 11:59 p.m.** |
| 6.  Sep  8 | M | pointers,strings | D&D Chapter 7 and 8 |
| 7.  Sep  9 | Tu | structs | D&D Chapter 10 |
| **Sep 10** | **W LAB 2** | **Arrays, debugging and make** | |
| 8.  Sep 11 | Th | memory allocation | malloc, free |
| 9.  Sep 12 | F | data structures | D&D Chapter 12 |
| 10. Sep 15 | M | event lists, linked lists | **Program 2 Due at 11:59 p.m.** |
| 11. Sep 16 | Tu | queues | D&D Chapter 12 |
| **Sep 17** | **W LAB 3** | **Command Line Arguments end Event Lists** | |
| 12. Sep 18 | Th | Review | |
| 13. Sep 19 | F | Mid Term Exam  (closed book) | |
| 14. Sep 22 | M | trees | D&D Chapter 12 |
| 15. Sep 23 | Tu | doubly linked lists, tree traversals | D&D Chapter 12 |
| **Sep 24** | **W LAB 4** | **Trees** | |
| 16. Sep 25 | Th | stacks and hashing | **Program 3 Due at 11:59 p.m.** |
| 17. Sep 26 | F | introduction to C++ | D&D Chapter 18 |
| 18. Sep 29 | M | C++ terminology | D&D Chapter 18 |
| 19. Sep 30 | Tu | classes and objects | D&D Chapter 19 |
| **Oct  1** | **W LAB 5** | **Simulating Shopper Queuing at a Store** | |
| 20. Oct  2 | Th | classes and objects | D&D Chapter 20 |
| 21. Oct  3 | F | constructors and destructors | D&D Chapter 20 |
| 22. Oct  6 | M | composition | **Program 4 Due at 8:00 a.m.** |
| 23. Oct  7 | Tu | friend functions and this pointer | D&D Chapter 21 |
| **Oct 8** | **W LAB 6** | **(Optional Lab – Finish LAB 5)** | |
| 24. Oct 10 | Th | operation overloading | D&D Chapter 22 |
| 25. Oct  7 | F | inheritance | D&D Chapter 23 |
| 26. Oct 11 | M | polymorphism | D&D Chapter 24 |
| 27. Oct 14 | Tu | Review | |
| Oct 15 | W | | **Program 5 Due at 11:59 p.m.** |
| 28. Oct 16 | Th | **FINAL EXAM (closed book)** | |