| | | IC221 Systems Programming - 2008 Syllabus |
|---|---|---|
| M | Lecture 1 | Intro |
| W | Lecture 2 | UNIX Organization |
| R | Lab 1 | UNIX Familiarity |
| M | Lecture 3 | UNIX Development Env't: xemacs, command-line compiling, argc/argv, "stdin/stdout", shell IO redirection |
| W | Lecture 4 | C vs C++: printf/scanf, C-strings, structs |
| R | Lab 2 | C basics (printf/scanf, C-strings, structs) |
| W | Lecture 5 | More C: dynamic memory, file IO |
| R | Lab 3 | C file IO (fopen, etc), dynamic memory (malloc, etc) |
| M | Lecture 6 | bash intro: |
| W | Lecture 7 | More bash: scripting |
| R | Lab 4 | bash: scripting |
| M | Lecture 8 | .dot/.rc files, environment, the login process |
| W | Lecture 9 | UNIX filesystem structures |
| R | Lab 5 | mytouch |
| M | Lecture 10 | Processes and the memory layout of a program; review |
| W | Exam 6 | |
| R | Lab 6 | Shell IO redirection (mma, mmam, mmamV2) |
| T | Lecture 11 | Process creation: fork |
| W | Lecture 12 | Parent/child processes; exit, wait |
| R | Lab 7 | fork |
| M | Lecture 13 | exec |
| W | Lecture 14 | dup |
| R | Lab 8 | fork/exec/exit/wait |
| M | Lecture 15 | Signals |
| W | Lecture 16 | Signals |
| R | Lab 9 | Signals |
| M | Lecture 17 | SEIC |
| W | Lecture 18 | IPC, fifo & pipes |
| R | Lab 10 | Pipes |
| M | Lecture 19 | Concurrency |
| W | Lecture 20 | Concurrency |
| R | Lab 11 | Producer/consumer concurrency problem |
| M | Lecture 21 | Deadlock; review |
| W | Exam 12 | |
| R | Lab 12 | Smokers concurrency problem |
| M | Lecture 22 | Networks: general concepts (terms, protocols) |
| W | Lecture 23 | Networks: protocols and services (TCP/IP, UDP, DNS) |
| R | Lecture 24 | Networks: IP addressing, sockets |
| M | Lab 13 | Socket intro |
| W | Lab 13 | Socket intro |
| R | Lab 14 | bc program using sockets |
| M | Lecture 25 | Networks: client/server |
| W | Lecture 26 | Catch up/review |
| R | Lab 15 | Distributed game |
| M | Lecture 27 | SOFS |