

Lecture Syllabus—Spring 1998			
Wk	Dates	Text	Topics Covered
1	Jan 13, 15	1, 2	Introduction, course organization. Several sample C programs. Overview of computer systems, high-level languages, compilers. [First class is Jan 13]
2	Jan 20, 22	2, 3	Simple data types, computer memory, assignment statement, constant and variable declarations, step-by-step problem solving. Arithmetic operators, simple input and output of data. [Jan 19 is MLK Day.] [Program 1 (copy) due Jan 22.]
3	Jan 27, 29	3, 4, 6	Simple output formatting, redirection of input and output, functions without parameters, functions with a single value parameter, if, if-else, and nested if-else. [Program 2 (modify copy) due Jan 29.]
4	Feb 3, 5	5	Switch statement, testing, debugging, errors, compilation, syntax and semantics, milestones, test output, while loops. [Program 3 (simple if-then) due Feb 5.]
5	Feb 10, 12	5, 6	More loop examples, for statement. Functions with parameters. [Program 4 (loops) due Feb 12.]
6	Feb 17, 19	6	More functions and parameters with examples. The char data type, logical expressions and operators. [FIRST EXAM Feb 17.]
7	Feb 24, 26	6	Continuation with examples. [Program 5 (complex logic, loops) due Feb 26.]
8	Mar 3, 5	7	Arrays, search and sort. [Program 6 (includes functions) due Mar 5.]
9	Mar 10, 12	7, 8	Continue search and sort, strings. [Last day to drop: Mar 13.] [Program 7 (more functions) due Mar 12.]
			[Mar 16–20 is Spring Break.]
10	Mar 24, 26	7	Two-dimensional arrays. [Program 8 (includes arrays) due Mar 26.]
11	Mar 31, Apr 2	7, 8	Binary search, strings. [SECOND EXAM Mar 31.]
12	Apr 7, 9	11	Simple structures. [Program 9 due Apr 9.]
13	Apr 14, 16	9	File input and output. [Program 10 due Apr 16.]
14	Apr 21, 23		Leeway. [Program 11 (includes strings) due Apr 23.]
15	Apr 28		Review, wrap-up, leeway. [Study: Apr 30, May 1.]

Note: Text is *The Art of Programming: Computer Science with C*, by Steven C. Lawlor, West, 1996.

Programs due: Thursdays.

Exams: Tuesdays.

Laboratory Syllabus—Spring 1998			
Lab	Dates	Text	Topics Covered
1	Jan 13, 15	2	Logging in and changing password. Creating a simple C program using vi. Getting a printout. Trip to the lab. [First class is Jan 13.]
2	Jan 20, 22	3	Sending e-mail. More on vi. The man pages. Trip to the lab. [Assign: Send lab instructor e-mail.] [Jan 19 is MLK Day.]
3	Jan 27, 29	7	Newsgroups and the Internet. [Assign: Post a message to our newsgroup.]
4	Feb 3, 5	4	Files and directories. [Assign: TBD]
5	Feb 10, 12	8	Advanced editing.
6	Feb 17, 19	9	Programming tools: lint, make and dbx. [Assign: TBD]
7	Feb 24, 26	10	Unix shell and command lines. [Assign: TBD]
8	Mar 3, 5		More debugging. [Assign: TBD]
9	Mar 10, 12	12	Configuring your environment. [Assign: TBD]
			[Mar 16–20 is Spring Break.]
10	Mar 24, 26		Working with strings and pointers. [Assign: TBD]
11	Mar 31, Apr 2		In-class drills on advanced parameter passing. [Assign: TBD]
12	Apr 7, 9		In-class drills on two-dimensional arrays.
13	Apr 14, 16		In-class drills on arrays and structures. [Assign: TBD]
14	Apr 21, 23		Practice for the final. [Assign: TBD]
15	Apr 28		[Study: April 30, May 1.]

As well as covering special material during the laboratories, the labs are used to help with assignments, including understanding them and debugging them, and to answer questions.

Note: The text is *Unix System V: A Practical Guide*, 3rd Edition, by Mark G. Sobell, Benjamin-Cummings, 1995.