Course map

Course map

(Also note the official dates from	the <u>Registrar's office</u> including add/drop dates and official holiday	/S)	
(All information subject to change	2)		
Week	Lectures (~3 hours per week)	Lab (~1 hours per week)	
1 - September 4 - 10	 Topic 0 - Course introduction Topic 1 - Introduction to operating systems and Unix Topic 2 - Introduction to C 		
2 - September 11 - 17	 Topic 3 - Unix basics Topic 4 - Unix editors Topic 5 - C fundamentals 	 Lab 01 login and logout department network using Unix to create a directory and two files 	• Assig
3 - September 18 - 24	 Topic 6 - Formatted IO Topic 7 - Files and directories 	 Lab 02 use tar command to manipulate archives use sftp to transfer files create a small C program and compile 	
4 - September 25 - October 1	 Topic 8 - Flow control in C (Selection statements and loops) Topic 9 - File security and permissions Topic 10 - Data types in C and Binary representation in computers 	Lab 03Flow control in C	• Assig • Assig • C
5 - October 2 - 8	 Topic 11 - Memory maps in C (Arrays) Topic 12 - Function calls in C 	 Lab 04 create new files and directories in Unix change their permission levels 	
6 - October 9 - 15	• Topic 13 - Pointers in C	 Lab 05 Small programs in C that work with different data types 	AssigAssigCU
7 - October 16 - 22	 Topic 14 - Unix command I/O and redirection Topic 15 - Processes and job control 	Lab 06Arrays in CFunctions in C	
8 - October 23 - 29	 Topic 16 - Regular expressions Topic 17 - Strings in C 	 Lab 07 Exercise with the grep command 	AssigAssigC
9 - October 30 - November 5 (Rea Week)	ading		I
10 - November 6 - 12	 Topic 18 - Variables (scope) in C (Program organization) Topic 19 - Debugging 	• Lab 08 • gdb	
11 - November 13 - 19	 Topic 20 - Structure types in C Topic 21 - The Preprocessor Topic 22 - Writing large programs 	 Lab 09 Working with the String library 	AssigAssigC
12 - November 20 - 26	 Topic 23 - Shell environments Topic 24 - Shell programming Topic 25 - Memory allocation (Advanced uses of pointers) Topic 26 - Linked lists and other advanced uses of 	Lab 10Shell programming	

Topic 27 - Declarations
 Topic 28 - Compiler directives in C
 Topic 29 - Low Level programming
 Lab 11
 Practice with command I/O, redirection, job control, etc
 Assign
 Topic 30 - The Standard Library
 Topic 31 - Interacting with Unix files in C (Input/Output)
 Exam period