

Computer Science 170
Fall Semester, 1992

Dr. Ed Bailey
Seney 112 A - 4 -8398

Texts: C by Dissection, Kelly & Pohl, A Practical Guide to the UNIX System, (2nd) Sobell.

Course Content : History of Computing, Logic, Algorithmic problem Solving, Electric Circuits.
Introduction to C language, Introduction to UNIX operating system, recursion
and data structures. This includes chapters 1 - 14 in the C text and chapters 1-6, 9 & 10
in the UNIX text.

Grading: There will be three tests at 150 points each for 450 points, six programs for a total of
350 points and a comprehensive final exam at 200 points.

In General,

A : 900 to 1000 points
B : 800 to 899 points
C : 700 to 799 points
D : 600 to 699 points
F : below 599 points

Honor Code : The Honor Code of Oxford College applies to all work submitted for credit in this course, and
all such work will be pledged to be yours and only yours. Please read carefully your copy of
the Honor Code. Programs need to include comment lines stating that the Honor Code has
been satisfied.

Assignments :

Tuesday, August 25	History of Computing Getting Started with the UNIX OS	Chap. 1-2 (UNIX)
Thursday, August 27	Review of sets, Intro to UNIX Utilities, File Structure and vi Writing An ANSI C program	Chap. 3, 4 & 6 (UNIX) Chap 1 (C)
Tuesday, Sept. 1	Review of function and Finite Series Lexical Elements, Operations and the C System	Chap 2 (C)
Thursday, Sept. 3	Introduction to logic Flow Of Control (Part 1)	Chap 3 (1 - 12) (C)
Tuesday, Sept. 8	Equivalences and Quantifiers Flow of Control (Part 2)	Chap 3 (13 - 23) (C)
Thursday, Sept 10	methods of reasoning and proof Functions in C, Top-Down Design	Chap 4 (C)
Sunday , Sept 13	Program One (Chapters 1 - 2) : 11 : 00 p.m.	
Tuesday, Sept 15	Review for Test One	Chap (1 - 4)
Thursday, Sept 17	Test One (Logic and the Basics of the C Language)	

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Tuesday, Sept 22	Algorithms and Problems Character Processing	Chap 5 (C)
Thursday, Sept 24	More Algorithmic Problems Fundamental Data Types	Chap 6 (1-7) (C)
Sunday, Sept 27	Program Two Chapters 3 - 4) : 11:00 p.m.	
Tuesday, Sept 29	MAPS Methodology Mathematical Functions	Chap 6 (8 - 14) (C)
Thursday, Oct. 1	Software Development Enumeration Types	Chap 7 (1 - 3,8 - 11) (C)
Tuesday, Oct. 6	Case Studies using MAPS Functions and Pointers	Chap 8 (1 - 5) (C)
Thursday, Oct. 8	Defining Abstractions Storage Classes	Chap 8 (6 - 14) (C)
Sunday, Oct. 11	Program Three Chapter 5 : 11:00 p.m.	
Tuesday, Oct. 13	Review for Test Two	Chapters 5 - 8
Thursday, Oct. 15	Test Two - Development of Algorithms - Functions in C	
Tuesday, Oct. 20	Correctness and Robustness of Algorithms One-Dimensional Arrays and Pointers	Chap 9 (1 - 6)
Thursday, Oct. 22	Solving Text Processing problems with MAPS Multi-Dimensional Arrays	Chap 9 (7 - 12)
Tuesday, Oct. 27	Solving Graphics problems with MAPS Strings and Pointers	Chap 10 (1 - 5)
Thursday, Oct. 29	Ensuring Robustness and Correctness Standard Library for Strings	Chap 10 (6 - 11)
Sunday, Nov. 1	Program four Chapter 8 : 11:00 p.m.	
Tuesday, Nov. 3	Overview of Computer Organization The Preprocessor	Chap 11(1 - 13) (C)
Thursday, Nov. 5	Representation of information in a computer Software Methodology and recursion	Chap 11(14 - 16) Chap 12 (C)
Tuesday, Nov. 10	Memory and The Arithmetic-Logic Unit Divide and Conquer methodology	Chap 12 - 4
Thursday, Nov. 12	The Control Unit Data Structures	Chap 13 (1 - 8) (C)

Sunday, Nov. 15	Program Five - Chapter 10 - 11:00	
Tuesday, Nov. 17	Intellectual Property Linked Lists	Chap 13 (9 - 15) (C)
Thursday, Nov. 19	Liability for Software Errors Review for Test Three	Chapter (9 - 13)
Tuesday, Nov. 23	Test Three - Software Structures in C	
Tuesday, Dec. 1	Computing as a Discipline Input/Output and Files	Chap 14 (C)
Thursday, Dec. 3	Review for Final Exam	
Friday, Dec. 4	Program Six - Chapter 13 : 4:00 p.m.	
Wednesday, Dec. 9	Final Exam - 9:00 - P. 120	