

A: Division Instructional Date June 18, 1997

B: Department Pure and Applied Science and Technology

Course X
June 12, 1992

Revision of C
Dated Ju

Descriptive Title

C: CMPT 210
D: 4
Credits

Course Number

1 OOD and OOP

1.1 Specs. for assignment #1: consists of one program encompassing most topics from the prerequisite course (does not include inheritance)

1.2 Modules, information hiding, and inheritance

Specs for assignment #2: inheritance

of algorithms

2

Analysis of

Worst and average case complexity of sequential and linear search algorithms

2.1. W

2.2 Worst case complexity of sorting algorithms: bubble sort, linear insertion, binary insertion, mergesort, and quicksort

2.3 Binary Searching and Searching over Strings

State spaces, backtracking, and exponential growth

Specs for assignment #3: recursive backtracking in a puzzle state space

3.1 Dynamic Data Structures

3.1 Linear structures: lists, stacks, queues

3.2 Assignment #4

3.3 Trees

3.3.1 Binary trees

Q: Method of Instruction

There are three components to the course: lectures, labs, and self-directed learning (i.e. assignments)

The lecture is used to introduce new material, usually language dependent, and one or more example case studies. The lecture is used as an additional source of problems and examples.

The two four-weekly labs are exclusively used to evaluate the student's practical programming ability. They are marked mostly on results, i.e. correctness of the algorithm.

Assignments are the most important learning vehicle and are marked according to program design, correctness and efficiency of the algorithms, coding style, and completeness of the documentation.

R: Evaluation

The final grade will be calculated from a particular distribution from the range below. The exact distribution will be given to the student on the first day of classes along with the course outline and necessary policies.

Distribution Range:

6 labs.	=	15% - 25%
2 tests @ 15%	=	30%
1 exam	=	20% - 30%
5 assignments	=	20% - 35%

Example Distribution:

6 labs	=	15%
test #1	=	15%
test #2	=	15%
assignments	=	20%
exam	=	35%
Total	=	100%