Douglas College [illegible]

A: *Division* Instructional *Date* June 9, 1998

B: *Department* Science and Technology *New Course* X

Revision of Course ____

Dated ____

C: CMPT-250 *Course Number* D: Computer Systems Design and Architecture *Descriptive Title* E: 3 *Credits*

F: *Calendar Description*

This course introduces computer systems design and architecture. It

Summary of Revisions

N: *Textbook and Materials to be Purchased by Students*

- Heuring V.P. and Jordan H.F., Computer Systems Design and Architecture, Addiso
- Portfolio for logic design assignments
- Two 3½" high density diskettes

O: *Course Objectives*

The students should be able to:

- demonstrate an understand
- designing and implementing programs in mac
- functionally describing architectural support
- virtually simulating the hardware functions
- using a logic circuit simu
- quantitatively describing the complexity and speed of
- mathematical functional no

P: *Course Content*

1 The General Purpose Computer

1.1 Views: programmer's, architect's, hardware d

1.2 A Review of Simple A

1.2.1 Instruction Formats

1.2.2 Addressing Modes

1.2.3 Instruction Sets

2 Microprogramming a control unit for SAP

Q: *Method of Instruction*

There are three components to the course: lectures, labs, and assignments.

[redacted] and practical considerations. The book is to be used as a close adjunct to the lecture notes and examp