Computing Science 265

Course Information Sheet
Fall 2000

Overview:

The goal of the course is to improve your programming productivity by helping you to write code that is demonstrably correct, by making effective use of software tools, and by developing familiarity with the program development environment.

An on-line version of this document can be found at `http://csciun1.mala.bc.ca:8080/~pwalsh/teaching/teaching.html`. Students are advised to check this web side weekly to ascertain up-to-date information.

Text:

The following book is strongly recommended (available from MUC bookstore):

P. Wang, *An Introduction to Unix with X and the Internet*, ITP/PWS

Other materials will take the form of on-line class notes and the on-line documentation for commands already available on the computer system.

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Evaluation:

Exercises	30%
Midtem Examination	15%
Final Examination	55%

Grade Conversion: The following scale will be used but the instructor reserves the right to lower the numerical score required for a particular letter grade if that seems appropriate, but the same conversion will be applied to all persons in the class. Under no circumstances will the numerical score required for a particular letter grade be raised.

90-100	A+
85-<90	A
80-<85	A-
75-<80	B+
70-<75	B
65-<70	B-
60-<65	C+
55-<60	C
50-<55	D
<50	F

You must pass (>= 50%) the final exam to pass the course.

Topic Outline and Provisional Schedule

Lecture Date	**Topics**
Sep 6	Introduction
Sep 7,8	Basic Unix
Sep 11	Text Editors (vi and emacs)
Sep 13	X Windows
Sep 14,15	Development Environments (Fuse and xemacs)
Sep 18	Unix Commands and Filters
Sep 20	Interactive Shell Programming
Sep 21,22	Regular Expressions
Sep 25	Shell Scripts
Sep 27	Shell Scripts (cont.)
Sep 28,29	Program Maintenance using Make
Oct 2	Program Maintenance using Make (cont.)
Oct 4	C Programming
Oct 5,6	Kwic case study
Oct 11	Kwic case study (cont.)
Oct 12,13	C++ and cew
Oct 16	cew and m4
Oct 18	Profiling and Test Coverage
Oct 19,20	Catch-up and review
Oct 23	Midterm Test
Oct 25	Tcl/Tk

Oct 26,27	Tcl/Tk (cont.)
Oct 30	Expect
Nov 1	Expect (cont.)
Nov 2,3	File Systems
Nov 6	Networking
Nov 8	Revision Control
Nov 9,10	Revision Control (cont.)
Nov 15	Perl Branching and Looping)
Nov 16,17	Perl Data Structures
Nov 20	Perl Functions
Nov 22	Perl OO
Nov 23,24	Perl OO (cont.)
Nov 27	CGI and the Web
Nov 29	CGI and the Web (cont.)
Nov 30,Dec 1	CCH case study
Dec 4	CCH case study
Dec 6	Catch-up and review

Provisional Exercise Schedule:

Each exercise has a due date and time. Exercises must be **received** before the due date and time. All exercises are to be completed by teams of 3 students.

Exercise	**Issued**	**Due**
1	Oct 2	Oct 11
2	Oct 16	Oct 25
3	Nov 1	Nov 10
4	Nov 10	Nov 20
5	Nov 24	Dec 4

Guidelines Concerning Fraud

These guidelines concern the type of fraud where a student presents another's work as his or her own, or allows another to do so.

- As fraud invalidates the evaluation of a student's progress, it is the duty of instructors, teaching assistants, and laboratory assistants to take measures to prevent fraud and to be vigilant towards symptoms of fraud.
- Students are encouraged to study together. But, unless the contrary is indicated, submitted work is to be done by students individually. Students are to collaborate on submitted work only when this

is explicitly permitted by the instructor. In such a case, the names of all students who have collaborated on a piece of submitted work should be indicated on all submitted material. As in all academic endeavour, due credit must be given to all reference material. Students should consult the course instructor if they are not certain which outside material is appropriate for use in a course. The collaboration is to involve reasonable effort on the part of all students involved. In a situation where this is clearly not the case, appropriate action will be taken with regard to those students who have not fully contributed to the collaborative effort.

- In case fraud is detected, credit is withheld from the work affected. The students involved are reported to the department chair who may take additional disciplinary action commensurate with the severity of the fraud and the past records of the students.