Erindale College — University of Toronto at Mississauga
Department of Computer Science

CSC 104: The How and Why of Computing
Fall 2009

Instructor: Jeremy Sills
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Course Web Page: `http://www.cs.utoronto.ca/~sills/104/09f`

Texts:

J. Parsons and D. Oja, *New Perspectives on Computer Concepts, 2010, 12th Edition*
Student Edition Labs, Version 4.0

Class Schedule:

Week of	Readings	Topics	Tutorial
Sep 7 - 11	P&O ch 0, 1	basic concepts	
Sep 14 - 18	P&O ch 2	hardware	UTM computing labs, text editor
Sep 21 - 25	P&O ch 3, 4	software	intro to html
Sep 28 - Oct 2	P&O ch 3, 8, 11	applications	history video
Oct 5 - 9	P&O ch 10	design	A1 Q&A
	Assignment 1 due — Software/website review teams of two		
Oct 12 - 16	P&O ch 12	programming	Java programming
Oct 19 - 23	Java readings	midterm/programming	programming environments
Oct 26 - 30	P&O ch 5, 6, 7	networks/internet	Java examples
Nov 2 - 6	AI readings	AI	more Java examples, A2 Q&A
	Assignment 2 due — Java programming individual work		
Nov 9 - 13	Theory readings	theory	AI video
Nov 16 - 20	P&O ch 9, Social issues readings	social issues	A3 Q&A
Nov 23 - 27	P&O	security/review	
	Assignment 3 due — Research individual work		

Assessment Schedule and Scheme:

	Weight	Dates	Details
Assignment 1	10%	Oct 8	
Mid term test	10%	Oct 23	test held during class
Assignment 2	10%	Nov 5	
Assignment 3	10%	Nov 26	
Labs	10%	one lab per class	see lab schedule
Electronic participation	5%	ongoing	
Final exam	45%	Dec 7 - 18 (exam period)	three hour exam; no aids

You must achieve at least 40 out of 100 on the final exam to pass this course.

Assignments:

Clearly label each of the different parts of the assignments with the course number, the assignment number, your name, (your team members' names, when you are working in a team), your tutorial time, and your instructor's name. Do not include your student number in any files that can be viewed by anyone other than yourself and your instructor. Also in your assignment solution files, list the names of anyone you discussed the assignment with or any other sources you used to develop your solution. Assignments are due at 10 a.m. on the days indicated in the above schedule. All assignments are submitted electronically. The procedure will be described in the tutorial session.

There is no need to submit a paper version of your assignment. Late assignments will be accepted until 10 a.m. on the day following the assignment due date. The penalty for a late assignment is 20% of the base mark for the assignment. If you are unable to complete an assignment due to illness or other circumstance, contact the instructor as soon as possible in person, by telephone or email. Late assignments that deserve special consideration must be discussed with the instructor. That discussion should be initiated by email. Documentation (e.g., a doctor's note on the standard UofT form) must be provided.

`http://www.utm.utoronto.ca/fileadmin/w3reg/pdfs/OTR_Forms/medcert_web.pdf`

Late assignments, even those for special circumstances, will not be accepted later than one week after the due date.

Backup files:

Make backup files regularly. Losing a file and the marks for the assignment stored in the file are a costly way of learning the value of backup files.

Plagiarism:

The word "plagiarism" means a kind of fraud—passing off someone else's work or ideas as your own to get a higher mark than you deserve. Plagiarism is a form of academic fraud and is treated very seriously. The assignment solutions you hand in must be your own and not contain anyone else's ideas. In CSC 104 where some assignments may be team efforts, you must be careful to keep ideas and information within your team.

Assignments are given in order to help you learn, and the grades you are given are a measure of how much you have learned. You will be given plenty of help in lectures and tutorials to start you off on assignments, and you may always ask your instructor or your TA for additional help.

The work you submit must be your own. Refer to the 2008-2009 UTM Calendar and Appendix "A" in the University of Toronto, Code of Behavior on Academic Matters for a more detailed description.

`http://www.utm.utoronto.ca/regcal/WEBGEN120.html`

Guidelines for avoiding plagiarism:

You may discuss assignments with friends and classmates—but only up to a point. You may discuss and compare general approaches. You may also discuss how to get around particular difficulties. But you should not leave such a discussion with any written material. You should never look at another student's solution to an assignment on paper or on the computer screen, even in draft form. The actual coding of your programs or documents, analysis of results and writing of reports must be done independently. If you do talk with anyone about an assignment, you must include their name in your submitted assignment files. If you use some other source to help develop your solution, you must give credit in the assignment.

Note that it is also a serious offense to help someone commit plagiarism. Do not lend your printouts, reports, disks or other storage devices, or let others copy or read them. To protect yourself against people copying your work without your knowledge, retain all of your old printouts and draft notes until the assignments have been graded and returned to you. If you suspect that someone has stolen a printout, diskette, CD, USB key, etc., contact your instructor immediately.

Helping each other:

Although you must not solve your assignments with the help of others, there are still many ways in which students can help each other. For instance, you can go over difficult lecture or tutorial material, work through exercises, or help each other understand an assignment handout. This sort of course collaboration can be done in study groups. We hope that you will meet other students and work together in these ways.

Labs:

The course work includes eleven hands-on labs. Each *perfect* lab is worth 1% of your final grade to a maximum of 10%. Labs are to be done on your own time. Labs may be repeated as many times as necessary. Submit the lab printout in the lecture room at the *beginning* (that is 2:10 p.m.) of each class specified in the following schedule. Labs must be submitted on the day specified. Late labs will not be accepted.

The first lab is due in the September 18 class. The labs are on the Student Edition Labs, Version 4.0 CD that comes with the text.

The schedule below lists the titles and due dates for the eleven labs.

Lab Title	Date
Using Input Devices	Sep 18
Creating Web Pages	Sep 25
Binary Numbers	Oct 2
Understanding the Motherboard	Oct 9
Maintaining a Hard Drive	Oct 16
Databases	Oct 23
Spreadsheets	Oct 30
Networking Basics	Nov 6
Connecting to the Internet	Nov 13
Protecting Your Privacy On Line	Nov 20
Keeping Your Computer Virus Free	Nov 27

Each lab has several subtopics with *Intro*, *Observe*, *Practice* and *Review* sections. Do all the sections and all the subtopics. After completing all the *Review* sections press the *Results* button. In the dialog box that says *Enter name* key in your name. Press the *Print* icon. Submit the printed copy of the results in class.

The Erindale (UTM) computing facilities can be busy when labs and assignments are due. You are encouraged to start early and work ahead.

Electronic participation:

Your use of the course computer facilities will be monitored. You are expected to read the web pages regularly. In team assignments you are expected to converse with your assignment partner by email. You are also expected to interact with other members of the class electronically. For a complete list of expectations check the course announcements web page.

Examinations:

The mid term exam will be held during the class, October 23. The midterm is 50 minutes in length. The final examination will be held during the examination period. It will be three hours in length. Questions on either exam may include information from the course text and readings, the lecture notes, the assignments, the labs or the videos. Questions about current computer related news stories may also be included.

If you are unable to write the mid term exam due to illness or other circumstance, contact the instructor as soon as possible by telephone or email. If you are unable to write the final examination due to illness, contact your Registrar as soon as possible.

Videos:

The following videos will be shown during the tutorial hour. You can review the videos in the St. George AV library. They are as follows:

Sep 30	"Giant Brains."
Nov 11	"Thinking Machines."

Other course information:

Other term information will be posted in the course web pages. Each student is expected to read the course Web pages and their email messages regularly. Not reading the web pages or email is not a valid excuse for missing information regarding the course.

Electronic help:

Questions can be emailed to the course account.