This sheet summarizes information for the course CSC 363H 1F ("Computational Computability and Complexity") during the Fall session of 2004 on the St. George campus at the University of Toronto. By the end of the first week of classes, you should have read and become familiar with the contents of this information sheet and the relevant sections of the course website.

Course Website

`http://www.cs.utoronto.ca/~fpitt/20049/CSC363/`

The course website will always contain the most up-to-date information possible regarding the course. *You are responsible for all announcements posted on the course web site*, so please check the `Announcements` page frequently (at least once a week). You are also responsible for all announcements made in lectures and tutorials: make a friend in class and get their notes if you miss class.

Instructor Information

Instructor	Office	Phone	Email	Office Hours
François Pitt	SF 4306E	416–978–3707	`fpitt@cdf.utoronto.ca`	*T.B.A.*

Office Hours

Instructor office hours will be decided during the first week of classes and posted on the course website. TA office hours will be held occasionally during the term, but not necessarily on a regular schedule. They will be announced ahead of time on the course website.

Lectures

Section	Time	Room	Instructor
L0101	MW 2	BA 1170	François Pitt
L5101	T 7-9	BA 1180	François Pitt

Tutorials

Section L0101

Time	Room	TA's name	for students whose last name starts with...
F 2	BA 3008	Alex Hertel	A–C
F 2	BA 3012	Philipp Hertel	D–K
F 2	BA 3116	Paul McCabe	L–S
F 2	BA 3000	Phuong Nguyen	T–Z

Section L5101

Time	Room	TA's name	for students whose last name starts with...
T 6	BA 3008	Alex Hertel	A–L
T 6	BA 3012	Philipp Hertel	M–Z

Note that tutorials begin the **second** week of classes.
You have been assigned a specific tutorial section, based on the first letter of your last (family) name. *Please attend your assigned tutorial*, to allow us to keep the sections balanced. If you have a problem with your assigned tutorial, please contact your instructor immediately.

Textbook

The required textbook for the course is:

- Michael Sipser, "*Introduction to the Theory of Computation*". PWS Publishing Company (1997), ISBN: 0–534–94728–X.

The textbook will be used for readings and exercises throughout the term.
See the course website for some additional references.

Outline

The following topics will be covered in this course, in the order listed. For each topic, we have indicated the approximate number of weeks required to cover the topic as well as a list of the relevant sections in the textbook.

Outline (cont'd)

- Computability [5 weeks] — (Chapters 3, 4, 5 in the textbook): the Church-Turing thesis; turing machines and other models of computation; decidability and semi-decidability (recognizability); non-decidability and the Halting problem; diagonalization; reducibility.
- Complexity [8 weeks] — (Chapters 7, 10 in the textbook): models of efficient computation; P and NP; NP-completeness, Cook's theorem; self-reducibility and polytime transformations; approximation algorithms and heuristics; lower bounds on problem complexity.

Grading Scheme

Item	Due Date	Weight
Assignment 1	Oct 5	10%
Term Test 1	Oct 15/Oct 19	10%
Assignment 2	Oct 26	10%
Assignment 3	Nov 16	10%
Term Test 2	Nov 19/Nov 23	10%
Assignment 4	Dec 7	10%
Final exam	Dec 13–20	40%

Note: To pass this course, you must achieve a mark of 40% on the final exam.

Assignment Submission

All assigments are due *no later than 6pm* on their due date. All assignments must be submitted into the CSC 363H "drop box", located in toom BA 2220, including assignments submitted late for a lateness penalty (see the next section).
However, if you require special consideration for one of your assignments, please follow the "Policy on Special Consideration" given on the `Main Webpage`: hand in your assignment directly to your instructor or to the secretary in the main office (SF 3302), to be left in your instructor's mailbox, along with a completed "Request for Special Consideration" form and your supporting documentation.

Lateness Policy

All assignments are due *by 6pm* on their due date. Late assignments will be accepted up to 24 hours after this deadline, with the following penalties.

Submission time	Penalty
by 6pm on Tuesday	none
by 10am on Wednesday	-10%
by 6pm on Wednesday	-25%
after 6pm on Wednesday	-100%

Note that lateness penalties will be computed as a percentage of the total marks on the assignment, not of the mark you obtain. Late assignments must be submitted directly into the CSC 363H drop box (in room BA 2220), unless you require special consideration (see the section above for details).
The late policy is strictly enforced.

Plagiarism

Please read the `Guidelines for Avoiding Plagiarism` page for full details of the course policies and the Faculty's rules. Plagiarism is a form of academic fraud and is treated very seriously. **The assignments you hand in must not contain anyone else's work or ideas, without proper attribution.** In particular, the actual writeup of your assignments must be done in isolation from others (and without copying from notes or other sources). This ensures that your solution is truly your own, that you understand the course material, and that your grade reflects your own understanding.
Note that it is a serious offense to help someone commit plagiarism. *Do not let others look at your solutions, even in draft form.*
Please do not commit plagiarism, for your own sake. If you are having trouble with the course, come speak to us, that's why we're here!