

# CSC165 Winter 2008

## Course information sheet

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Here's a summary of the administrative details of CSC165, "Mathematical expression and reasoning for computer science," for Summer 2007. In this course we learn about communicating clearly on mathematical topics. Please check the course web page (below) often.

**COURSE WEB PAGE:** See the course web page, <http://www.cdf.toronto.edu/~heap/165/W08/>. From there you will be able to see the calendar of important course events, and navigate to the course wiki and bulletin boards.

**LECTURES:** Our meetings are:

**LECTURE SECTION L0101:** Mondays, Wednesdays, and Fridays at 11 am in RW110 (Ramsey Wright 110).

**LECTURE SECTION L5101:** Mondays 6–9 pm in BA1170.

Usually, the first two hours are lecture with examples, and during the last hour I'll present some problem-solving examples, an exercise based on course materials, or take up solutions to assignments or tests. I can be reached in person at BA4270, during lectures in BA1210, asynchronously at [heap@cs.toronto.edu](mailto:heap@cs.toronto.edu), and occasionally at 416-978-5899.

I will also answer some questions, and (occasionally) provide hints on the wiki and bulletin boards.

**TUTORIALS AND PROBLEM-SOLVING EXERCISES:** There will be six two-hour tutorial sessions (which you sign up for on ROSI) during the course. During tutorials you will work on exercises to re-inforce lecture material, and write short quizzes. Tutorial rooms will be assigned during the first week of classes (so there are no tutorials during week 1).

**TEXTBOOK AND COMPUTING:** There is no required text for this course. Instead, I offer you our course notes (see the wiki) covering the topics we discuss. Each student has an account at the CDF facility (questions? [admin@cdf.toronto.edu](mailto:admin@cdf.toronto.edu)) to facilitate assignment questions that might involve some python programming, and to allow electronic submission of assignments.

**SYLLABUS:** We will discuss the following topics:

- logic
- proof techniques
- complexity
- floating-point number representation

MARKING SCHEME: There are nine pieces of term work for this course: three assignments, three tests, an on-line journal, and two triplets of quizzes. These nine pieces of work are ranked from best to worst (breaking ties by ranking the later piece of work lower). Your best piece of work receives a weight of 11%, your next best receives a weight of 10%, your next best receives a weight of 9%, your next best receives a weight of 8%, your next best receives a weight of 7%, your next best receives a weight of 6%, your next best receives a weight of 5%, your next best receives a weight of 4%, and your next best receives a weight of 3%. This generates a term work total of 63%, with an average weight of 7% for each piece of term work. The remaining 37% of your grade is for the final exam. In addition to this scheme, you must earn a minimum of 40% of the marks allotted to the final exam to pass this course (this is sometimes called an auto-fail provision).

ITEM	DUE	WEIGHT
Assignment #1	January 29th, 10 pm	3-11%
Term test #1	February 4th	3-11%
Quizzes 1, 2, 3	Jan 15, Jan 22, Feb 12	3-11%
Assignment #2	March 4th, 10 pm	3-11%
Term test #2	March 10th	3-11%
Quizzes 4, 5, 6	Feb 26, Mar 18, Mar 25	3-11%
Assignment #3	April 1, 10 pm	3-11%
Term test # 3	April 7	3-11%
On-line journal	April 11, 10 pm	3-11%
Final exam	exam period, TBA	37%

LATENESS, SICKNESS, NATURAL DISASTERS: I cannot accept late work, since I'll be posting solutions promptly.

If you have special circumstances that force you to miss a deadline, please contact me immediately (usually before the work is due) and fill out either the "Request for special consideration," or the standard medical excuse form, (both forms are available on the web page) and provide all supporting documentation. I will do my best to ensure that there is no penalty for a deadline missed for a valid reason.

PLAGIARISM: Passing off somebody else's work as your own for credit is a serious academic offense, can have serious academic consequences, and is beneath your dignity. Be sure to give full and generous credit to any person, book, or electronic source (except the course notes, instructor, and teaching assistants) you consult in solving your assignments. If you take notes when you consult any source, then you must indicate that you are quoting that source. Type up your assignments on your own, leaving at least an hour of mind-altering activity (for example, TV, shopping, or video games) after consulting others and before beginning your assignment. Don't show your work (on paper or electronically) to other students, and don't look at other students' work.