CSC 463: Computational Complexity and Computability
Winter 2019

Instructor	Benjamin Rossman (ben.rossman@utoronto.ca)
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	Please use email for personal matters only. Include "CSC 463" in the subject or your email. For other matters, see the instructor or TAs during office hours.
Textbook	Michael Sipser "Introduction to the Theory of Computation" (2nd or 3rd Edition)
Course website	http://www.math.toronto.edu/rossman/CSC463.html
Course description	Computability Theory (5 weeks): Turing machines, Church's Thesis, decidability and semi-decidability, diagonal arguments, the Halting Problem and other undecidable problems, reductions, complete problems. Computational Complexity (7 weeks): The classes P and NP, polynomial time reducibility, NP-completeness, Cook-Levin Theorem, various NP-complete problems, time and space complexity, intractable problems, other topics.

Lectures	Monday and Wednesday 2-3 in Bahen 1200
Tutorial	Friday 2-3 in Bahen 1200
Instructor office hours	Monday 3-4 in Bahen 6412
TA office hours	(to be determined)

Grading	10% for each of four problem sets 20% midterm exam (in tutorial on March 1) 40% final exam
	If you must miss an exam due to medical reasons, you must inform the instructor by email in advance (or as soon as possible) and present a doctor's note in accordance with UofT policy.
Homework policy	Assignments are due at the beginning of tutorial/lecture, since solutions will be discussed during the tutorial/lecture. The work you submit must be your own. You may discuss problems with each other; however, you should prepare written solutions alone. Copying assignments is a serious academic offense and will be dealt with accordingly.