

CSC375F Algorithm Design and Analysis Instructor: A. Borodin
Text: “Algorithm Design ” by Jon Kleinberg and Eva Tardos

CSC375 is our (enriched version) 3rd year undergraduate course in algorithm design and analysis. This is a standard and required course in most CSC programs throughout the world. Following the text, we will be emphasizing various algorithmic paradigms such as greedy algorithms, dynamic programming, network flows, linear programming and rounding, randomized algorithms, local search and multiplicative weights update. These techniques will be applied to a wide variety of (well motivated) discrete computational problems with a focus on combinatorial optimization.

The grading scheme will be based on 3 problem sets (5% each), each of which will be immediately followed by a term test (15% each), and a final exam (40%). As soon as an assignment is due (on a Wednesday) and collected, we will discuss the solutions in class and a term test will follow (on Friday). Therefore, no late assignments will be accepted. See the course web page (www.cs.toronto.edu/~bor/375f07) for the dates of all problem sets and tests.

Email Policy: I try to read emails regularly but I do NOT promise to reply to all emails. In particular, some questions require a technical answer and I will often answer such questions in class so that everyone can benefit.

Office hours (SF 2303B): To be announced. Beyond any posted office hours, students are always welcome to make appointments and/or drop by to see if I am available. In general, I prefer speaking to people in person than via email!