COMP-360: Algorithm Design

McGill University, Fall 2016

Course Details

Instructor: Yang Cai
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Office hours: Tuesday 15:30-16:30 (Yang)
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Lecture room: SADB 1/12
Class times: Tue/Thu 10:05–11:25
Teaching Assistants: Mashbat Suzuki, Tommy Reddad, and Florian Shkuti

Important Links

- myCourses (WebCT Vista): http://www.mcgill.ca/lms/

Contacting Instructors and Teaching Assistants

Post all your questions about assignments on the myCourses message boards so everyone can see both the questions and the answers. You may freely answer other students’ questions as well, with one important exception: you may not provide solution. Of course, you can send e-mail to a teaching assistant or instructor directly for private matters; to that end, you may use the e-mail facilities provided by McGill or any e-mail account you have with any e-mail provider.

Students are expected to monitor their McGill e-mail account, myCourses, and the course home page for course-related news and information.

Course Description

We will cover the following topics.

- Network Flows
- Linear Programming
• NP and NP-completeness
• Heuristics
• Approximation Algorithms
• Randomized Algorithms
• Online Algorithms

Textbook

The textbook of the course is

Course Prerequisites

• COMP 251 or COMP 252
• MATH 240 or MATH 235 or MATH 363
• Restrictions: NOT open to students who have taken or are taking COMP 362.

Assessment

The grade comprises the following components:

• 25% from homework problems: there will be 5 problem sets.
• 25% from the midterm exam.
• 50% from the final exam.

No late assignments will be accepted.

Plagiarism Policy

McGill University values academic integrity. Therefore all students must understand the meaning and consequences of cheating, plagiarism, and other academic offenses under the Code of Student Conduct and Disciplinary Procedures (see [www.mcgill.ca/integrity/](http://www.mcgill.ca/integrity/) for more information). Most importantly, work submitted for this course must represent your own efforts. Copying assignments or tests from any source, completely or partially, allowing others to copy your work, will not be tolerated.