1 Course Description

We will cover the following topics.

- Network flows.
- Linear programming.
- NP-completeness.
- Pspace.
- Approximation algorithms.
- Randomized algorithms.
- Online algorithms.

2 Textbook

The textbook of the course is


3 Prerequisite:

COMP 251 or COMP 252, and either MATH 240 or MATH 235 or MATH 363. Restrictions: Not open to students who have taken or are taking COMP 362.
4 Assignments

There will be 6 assignments. Your lowest grade will be dropped and each of the other 5 worth 4% towards your overall grade.

5 Academic Integrity

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 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.

6 Submission of written work in French

In accord [sic] with McGill University’s Charter of Students’ Rights, students in this course have the right to submit in English or in French any written work that is to be graded.