

COMP 251, Fall 2017

Course Information:

Session: Fall 2017 Time: Tuesday-Thursday 8:35 - 9:55,
Room: LEA 26 Web: <http://www.cs.mcgill.ca/~hatami/comp251-F2017>

Instructor:

Instructor: Hamed Hatami Email: hatami@cs.mcgill.ca
Office: McConnell 308 Phone: 1 (514) 398-7071
Office Hours: Tuesday 2:00-3:00 pm (also by appointment)

Teaching Assistants: Shuonan Dong, Vincent Antaki, Zilun Peng, Jaspal Singh, Hossein Aboutalebi, Scott Fujimoto.

Evaluation: Homeworks 20%, Midterms 30%, Final 50% or Homeworks 20%, Midterm 15%, Final 65% if this leads to a better grade.

1 Course Description

This course is an undergraduate course on the design of algorithms and data structures. Topics include Basics of Algorithms Analysis, Greedy Algorithms, Divide and Conquer technique, Dynamic Programming, and Network Flows.

This is a rigorous course with an emphasis on mathematical proofs rather than implementations. Hence it is important that you are already familiar with the material covered in Math 240, Math 235, or Math 363.

2 Textbook

The textbook of the course is

Jon Kleinberg and Eva Tardos, Algorithm Design, 2006

3 Prerequisite:

Comp 250.

4 Co-requisite:

Math 240, Math 235, or Math 363. (It is highly recommended that you have already taken one of these courses as a prerequisite).

5 Assignments

There will be 5 assignments each worth 4% towards your overall grade. The due dates are going to be announced, and they are restrict.

6 Midterm

There will be one midterm in October.

7 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.

8 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.