

COMP 251
Algorithms and Data Structures

Lectures. Monday/Wednesday 8.30-9.30am and Friday 4.30-5.30pm in the Auditorium, Adams Building.

Instructor.

- Adrian Vetta
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 - Office Hours: Friday 2pm-3.30pm in Burnside Room 1118

Topics. Introduction to algorithmic techniques and applications. Topics include Recursive Algorithms, Graph Algorithms, Greedy Algorithms, Dynamic Programming, Network Flows and Data Structures.

Pre-Requisites. The prerequisite are Comp 250 **and** a course in logical thinking and mathematical proofs (specifically, Math 240 or Math 235).

Course Textbook. *Algorithm Design* by J. Kleinberg and E. Tardos, Addison Wesley, 2006.

Recommend Books/Lecture Notes.

- *Algorithms* by S. Dasgupta, C. Papadimitriou and U. Vazirani, McGraw Hill, 2008.
- [Algorithms](#) by J. Erickson, Creative Commons License, 2015.

Grading Scheme.

- *Midterm Exams: 40%.*
 - There will be 3 in-class tests/midterm exams. Only your best two tests will count (20% each).
- *Final Exam: 60%.*