

# COMP 250 – Course Information

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**lectures:** Monday, Wednesday, Friday 13:35–14:25 in McConnell 304

**webpage:** [www.cs.mcgill.ca/~durocher/teaching](http://www.cs.mcgill.ca/~durocher/teaching)

**instructor:** Steph Durocher ([durocher@cs.mcgill.ca](mailto:durocher@cs.mcgill.ca))

**office hours:** Monday, Friday 14:30–15:30 in McConnell 324 or by appointment

**TAs:** Faiyaz Al Zamal ([faiyaz.zamal@mail.mcgill.ca](mailto:faiyaz.zamal@mail.mcgill.ca))

Hiba Yamani ([hiba.yamani@mcgill.ca](mailto:hiba.yamani@mcgill.ca))

Xun Sean Zhu ([xun.zhu@mail.mcgill.ca](mailto:xun.zhu@mail.mcgill.ca))

**TA office hours:** Tuesday, Friday 12:00–13:00 in Trottier 3107

**textbook:** Michael Goodrich and Roberto Tamassia, *Data Structures & Algorithms in Java*, fourth edition, John Wiley and Sons, 2006.

**assignments:** Problem sets and labs will be distributed in class. **Solutions must be submitted by 14:00 on the due date.** To permit the prompt distribution of solutions and return of marked assignments, **late assignments will not be accepted.** Please place your name, student #, and course # on all submitted material.

Students are encouraged to discuss course concepts and the general interpretation of homework problems with other students in the class. Such discussions should take place in a room from which no written record will come out. Each student must work on the final solution of assignment problems independently. Submitting the work of another person as your own constitutes academic misconduct. Any collaboration that does not follow these guidelines will be considered plagiarism and will be reported to the Faculty of Science.

**quizzes and examinations:** Two quizzes will be given in class on January 24 and March 19. A typical quiz will last 20 minutes and will consist of two or three problems similar to those from recent assignments. There will be a midterm February 16 and a final exam held during the exam period. Exams and quizzes will be closed book.

<b>grading scheme:</b>	final exam	40%
	midterm	25%
	quizzes	10%
	assignments + labs	25%

# COMP 250 – Course Outline

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The course covers the following topics. The ordering of topics may change.

Course Topic	Textbook Reference
algorithmic problem solving	1
programming in Java	2.1
object-oriented design and abstract data types	4.1, 4.2
runtime analysis	3.5
iteration and recursion	4.3.3, 11.1.5
induction and recurrence relations	1.5, 3.1–3.3
arrays and linked lists	9.3.3
searching	5
stacks and queues	7, 10.1, 8.3
binary trees	8.1, 8.2
priority queues	3.1.2, 11.1, 11.2, 8.3.5
sorting	9.2
hash tables	9.3
dictionaries	13
graphs	

Course Schedule	
January 3	first class
January 17	assignment 1 due
January 24	quiz
January 31	assignment 2 due
February 14	assignment 3 due
February 16	midterm exam
February 19 – 23	break
February 28	assignment 4 due
March 14	assignment 5 due
March 19	quiz
March 28	assignment 6 due
April 6, 9	no class
April 11	assignment 7 due, last class
April 13 – 30	exam period