Dynamic Schedule: Visit **Minerva Class Schedule (https://horizon.mcgill.ca/pban1/bwckschd.p_disp_dyn_sched)** for *course dates & times.*

COMP 251 Algorithms and Data Structures (3 credits)

Offered by: Computer Science (Faculty of Science (/study/2022-2023/faculties/science))

Overview

Computer Science (Sci) : Introduction to algorithm design and analysis. Graph algorithms, greedy algorithms, data structures, dynamic programming, maximum flows.

Terms: Fall 2022, Winter 2023

Instructors: Waldispuhl, Jérôme; Alberini, Giulia (Fall) Becerra, David (Winter)

- 3 hours
- Prerequisites: COMP 250 (/study/2022-2023/courses/comp-250); MATH 235 (/study/2022-2023/courses/math-235) or MATH 240 (/study/2022-2023/courses/math-240)
- COMP 251 (/study/2022-2023/courses/comp-251) uses mathematical proof techniques that are taught in the corequisite course(s). If possible, students should take the corequisite course prior to COMP 251 (/study/2022-2023/courses/comp-251).
- COMP 251 (/study/2022-2023/courses/comp-251) uses basic counting techniques (permutations and combinations) that are covered in MATH 240 (/study/2022-2023/courses/math-240) but not in MATH 235 (/study/2022-2023/courses/math-235). These techniques will be reviewed for the benefit of MATH 235 (/study/2022-2023/courses/math-235) students.
- Restrictions: Not open to students who have taken or are taking COMP 252 (/study/2022-2023/courses/comp-252).

This course may be used as a required or complementary course in the following programs:

Bachelor Engineering (B.Eng.) - Co-op in Software Engineering (https://www.mcgill.ca/study/2022-2023/faculties/engineering/undergraduate/programs/bachelor-engineering-beng-co-op-software-engineering)

Bachelor of Arts (B.A.) - Major Concentration Computer Science (https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-major-concentration-computer-science)

Bachelor of Arts (B.A.) - Major Concentration Computer Science (https://www.mcgill.ca/study/20

22-2023/faculties/basc/undergraduate/programs/bachelor-arts-ba-major-concentration-computer-science)

Bachelor of Arts (B.A.) - Major Concentration Software Engineering (https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-major-concentration-software-engineering)

Bachelor of Arts (B.A.) - Minor Concentration Computer Science (https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-minor-concentration-computer-science)

Bachelor of Arts (B.A.) - Minor Concentration Computer Science (https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-ba-minor-concentration-computer-science)

Bachelor of Arts and Science (B.A. & Sc.) - Honours Cognitive Science (https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-and-science-ba-sc-honours-cognitive-science)

Bachelor of Arts and Science (B.A. & Sc.) - Interfaculty Program Cognitive Science (https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-and-science-ba-sc-interfaculty-program-cognitive-science)

Bachelor of Arts and Science (B.A. & Sc.) - Major Concentration Software Engineering (https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-and-science-ba-sc-major-concentration-software-engineering)

Bachelor of Engineering (B.Eng.) - Bioengineering

(https://www.mcgill.ca/study/2022-2023/faculties/engineering/undergraduate/programs/bachelor-engineering-beng-bioengineering)

Bachelor of Engineering (B.Eng.) - Computer Engineering (https://www.mcgill.ca/study/2022-2023/faculties/engineering/undergraduate/programs/bachelor-engineering-beng-computer-engineering)

Bachelor of Engineering (B.Eng.) - Minor Computer Science (https://www.mcgill.ca/study/2022-2023/faculties/engineering/undergraduate/programs/bachelor-engineering-beng-minor-computer-science)

Bachelor of Science (B.Sc.) - Honours Biology - Quantitative Biology (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-biology-quantitative-biology)

Bachelor of Science (B.Sc.) - Honours Software Engineering (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-software-engineering)

Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Computer Science (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-computer-science)

Bachelor of Science (B.Sc.) - Liberal Program - Core Science Component Software Engineering (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-software-engineering)

Bachelor of Science (B.Sc.) - Major Biology - Quantitative Biology (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-biology-quantitative-biology)

Bachelor of Science (B.Sc.) - Major Computer Science (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-computer-science)

Bachelor of Science (B.Sc.) - Major Computer Science - Computer Games (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-computer-science-computer-games)

Bachelor of Science (B.Sc.) - Major Computer Science and Biology (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-computer-science-and-biology)

Bachelor of Science (B.Sc.) - Major Mathematics and Computer Science (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-mathematics-and-computer-science)

Bachelor of Science (B.Sc.) - Major Physics and Computer Science (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-physics-and-computer-science)

Bachelor of Science (B.Sc.) - Major Software Engineering (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-software-engineering)

Bachelor of Science (B.Sc.) - Major Statistics (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-statistics)

Bachelor of Science (B.Sc.) - Major Statistics and Computer Science (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-statistics-and-computer-science)

Bachelor of Science (B.Sc.) - Minor Cognitive Science (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-minor-cognitive-science)

Bachelor of Science (B.Sc.) - Minor Computer Science (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-minor-computer-science)

McGill Minerva

Visit *Minerva Class Schedule* for **course dates & times**

Class Schedule (https://horizon.mcgill.ca/pban1/bwckschd.p_disp_dyn_sched

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