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

COMP 250 Introduction to Computer Science (3 credits)

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

Overview

Computer Science (Sci) : Mathematical tools (binary numbers, induction, recurrence relations, asymptotic complexity, establishing correctness of programs), Data structures (arrays, stacks, queues, linked lists, trees, binary trees, binary search trees, heaps, hash tables), Recursive and non-recursive algorithms (searching and sorting, tree and graph traversal). Abstract data types, inheritance. Selected topics.

Terms: Fall 2022, Winter 2023

Instructors: Alberini, Giulia (Fall) Alberini, Giulia (Winter)

- 3 hours
- Prerequisites: Familiarity with a high level programming language and CEGEP level Math.
- Students with limited programming experience should take COMP 202 (/study/2022-2023/courses/comp-202) or equivalent before COMP 250 (/study/2022-2023/courses/comp-250). See COMP 202 (/study/2022-2023/courses/comp-202) Course Description for a list of topics.

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

Bachelor of Arts (B.A.) - Honours Linguistics (https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-honours-linguistics)

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/2022-2023/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 (B.A.) - Supplementary Minor Concentration Statistics (https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-supplementary-minor-concentration-statistics)

Bachelor of Arts (B.A.) - Supplementary Minor Concentration Statistics (https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-ba-supplementary-minor-concentration-statistics)

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

Bachelor of Engineering (B.Eng.) - Minor Applied Artificial Intelligence (22-25 credits) (https://www.mcgill.ca/study/2022-2023/faculties/engineering/undergraduate/programs/bachelor-engineering-beng-minor-applied-artificial-intelligence-22-25-credits)

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 Engineering (B.Eng.) - Minor Software Engineering (https://www.mcgill.ca/study/2022-2023/faculties/engineering/undergraduate/programs/bachelor-engineering-beng-minor-software-engineering)

Bachelor of Science (B.Sc.) - Honours Applied Mathematics (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-applied-mathematics)

Bachelor of Science (B.Sc.) - Honours Applied Mathematics (https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-science-bsc-honours-applied-mathematics)

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 Computer Science (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-computer-science)

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

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

immunology-interdepartmental)

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

Bachelor of Science (B.Sc.) - Honours Mathematics (https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-science-bsc-honours-mathematics)

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

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

Bachelor of Science (B.Sc.) - Honours Microbiology and Immunology (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-microbiology-and-immunology)

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

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

science-bsc-honours-physics-and-computer-science)

Bachelor of Science (B.Sc.) - Honours Physics: Biological Physics (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-physics-biological-physics)

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

Bachelor of Science (B.Sc.) - Honours Probability and Statistics (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-probability-and-statistics)

Bachelor of Science (B.Sc.) - Honours Probability and Statistics (https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-science-bsc-honours-probability-and-statistics)

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.) - Honours Statistics and Computer Science (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-statistics-and-computer-science)

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 Microbiology and Immunology (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-microbiology-and-immunology)

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

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.) - Liberal Program - Core Science Component Statistics (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-statistics)

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 Microbiology and Immunology (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-microbiology-and-immunology)

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

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

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 Physics: Biological Physics (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-physics-biological-physics)

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

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

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)

Bachelor of Science (B.Sc.) - Minor GIS & Remote Sensing (https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-minor-gis-remote-sensing)

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

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

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