

Dynamic Schedule: Visit [Minerva Class Schedule](#)https://horizon.mcgill.ca/pban1/bwckschd.p_disp_dyn_sched for course dates & times.McGill.ca (<https://www.mcgill.ca>) / Overview (/study/2022-2023/) / All Courses (/study/2022-2023/courses/search)

COMP 202 Foundations of Programming (3 credits)

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

Overview

Computer Science (Sci) : Introduction to computer programming in a high level language: variables, expressions, primitive types, methods, conditionals, loops. Introduction to algorithms, data structures (arrays, strings), modular software design, libraries, file input/output, debugging, exception handling. Selected topics.

Terms: Fall 2022, Winter 2023

Instructors: Campbell, Jonathan (Fall) M'hiri, Faten (Winter)

- 3 hours
- Prerequisite: a CEGEP level mathematics course
- Restrictions: [COMP 202 \(/study/2022-2023/courses/comp-202\)](#) and [COMP 208 \(/study/2022-2023/courses/comp-208\)](#) cannot both be taken for credit. [COMP 202 \(/study/2022-2023/courses/comp-202\)](#) is intended as a general introductory course, while [COMP 208 \(/study/2022-2023/courses/comp-208\)](#) is intended for students interested in scientific computation. [COMP 202 \(/study/2022-2023/courses/comp-202\)](#) cannot be taken for credit with or after [COMP 250 \(/study/2022-2023/courses/comp-250\)](#).

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 \(B.A.\) - 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.) - Minor
Concentration Environment
(<https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-minor-concentration-environment>)

Bachelor of Arts (B.A.) - Minor
Concentration Environment
(<https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-arts-ba-minor-concentration-environment>)

Bachelor of Arts (B.A.) - Minor
Concentration GIS & Remote
Sensing
(<https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-minor-concentration-gis-remote-sensing>)

Bachelor of Arts (B.A.) - Minor
Concentration GIS & Remote

Sensing
(<https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-ba-minor-concentration-gis-remote-sensing>)

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 (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 and Science (B.A. & Sc.) - Freshman Program
(<https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-and-science-ba-sc-freshman-program>)

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 Education (B.Ed.)
- Secondary Mathematics
(<https://www.mcgill.ca/study/2022-2023/faculties/education/undergraduate/programs/bachelor-education-bed-secondary-mathematics>)

Bachelor of Education (B.Ed.)
- Secondary Science and Technology
(<https://www.mcgill.ca/study/2022-2023/faculties/education/undergraduate/programs/bachelor-education-bed-secondary-science-and-technology>)

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

Bachelor of Engineering
(B.Eng.) - Honours Electrical Engineering
(<https://www.mcgill.ca/study/2022-2023/faculties/engineering/undergraduate/programs/bachelor-engineering-beng-honours-electrical-engineering>)

Bachelor of Science
(Agricultural and Environmental Sciences)
(B.Sc.(Ag.Env.Sc.)) or
Bachelor of Science (B.Sc.) -
Minor Environment
(<https://www.mcgill.ca/study/2022-2023/faculties/macdonald/undergraduate/programs/bachelor-science-agricultural-and-environmental-sciences-bscagenvsc-or-bachelor-science-bsc-minor>)

Bachelor of Science
(Agricultural and Environmental Sciences)
(B.Sc.(Ag.Env.Sc.)) or
Bachelor of Science (B.Sc.) -
Minor Environment

[. \(https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-science-agricultural-and-environmental-sciences-bscagenvsc-or-bachelor-science-bsc-minor\)](https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-science-agricultural-and-environmental-sciences-bscagenvsc-or-bachelor-science-bsc-minor)

[Bachelor of Science \(B.Sc.\) - Freshman Program](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-freshman-program)

[. \(https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-freshman-program\)](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-freshman-program)

[Bachelor of Science \(B.Sc.\) - Honours Biochemistry](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-biochemistry)

[. \(https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-biochemistry\)](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-biochemistry)

[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)

[. \(https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-biology-quantitative-biology\)](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)

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

[. \(https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-computer-science-and-biology\)](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 Earth System Science](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-earth-system-science)

[. \(https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-earth-system-science\)](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-earth-system-science)

[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)

[. \(https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-mathematics-and-computer-science\)](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

[. \(https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-science-bsc-honours-mathematics-and-computer-science\)](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 Neuroscience

[. \(https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-neuroscience\)](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-neuroscience)

Bachelor of Science (B.Sc.) - Honours Physics: Biological Physics

[. \(https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-physics-biological-physics\)](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-physics-biological-physics)

Bachelor of Science (B.Sc.) - Honours Software Engineering

[. \(https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-software-engineering\)](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

[. \(https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-statistics-and-computer-science\)](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 Biochemistry

[. \(https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-biochemistry\)](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-biochemistry)

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.) -
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 Biochemistry
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-biochemistry>)

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 Biology and
Mathematics
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-biology-and-mathematics>)

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>)

[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 Earth System Science](#)
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-earth-system-science>)

[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 Neuroscience](#)
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-neuroscience>)

[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 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 and Computer
Science](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-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 Computer Science](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-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)
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-minor-gis-remote-sensing>)

[Bachelor of Science \(B.Sc.\) -
Minor Interdisciplinary Life
Sciences](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-minor-interdisciplinary-life-sciences)
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-minor-interdisciplinary-life-sciences>)

[Bachelor of Science \(B.Sc.\) -
Minor Interdisciplinary Life
Sciences](https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-science-bsc-minor-interdisciplinary-life-sciences)
(<https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-science-bsc-minor-interdisciplinary-life-sciences>)

[Diploma \(Dip.\) Environment](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/diploma-dip-environment)
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/diploma-dip-environment>)

[Diploma \(Dip.\) Environment](https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/diploma-dip-environment)
(<https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/diploma-dip-environment>)




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