

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 208 Computer Programming for Physical Sciences and Engineering (3 credits)

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

Overview

Computer Science (Sci) : Programming and problem solving in a high level computer language: variables, expressions, types, functions, conditionals, loops, objects and classes. Introduction to algorithms such as searching and sorting. Modular software design, libraries, file input and output, debugging. Emphasis on applications in Physical Sciences and Engineering, such as root finding, numerical integration, diffusion, Monte Carlo methods.

Terms: Fall 2022, Winter 2023

Instructors: M'hiri, Faten (Fall) Parekh, Deven (Winter)

- 3 hours
- Corequisite: [MATH 133 \(/study/2022-2023/courses/math-133\)](#) and [MATH 141 \(/study/2022-2023/courses/math-141\)](#), or equivalents.
- Restrictions: Not open to students who have taken or are taking [COMP 202 \(/study/2022-2023/courses/comp-202\)](#), [COMP 204 \(/study/2022-2023/courses/comp-204\)](#), or GEOG 333; not open to students who have taken or are taking [COMP 206 \(/study/2022-2023/courses/comp-206\)](#) or [COMP 250 \(/study/2022-2023/courses/comp-250\)](#).
- [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 with sufficient math background and in (non-life) science or engineering fields.

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

[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 Engineering \(B.Eng.\) - Bioengineering \(/https://www.mcgill.ca/study/2022-2023/faculties/engineering/bioengineering\)](#)

22-
2023/faculties/engineering/und
ergraduate/programs/bachelor
-engineering-beng-
bioengineering)

Bachelor of Engineering
(B.Eng.) - Chemical
Engineering
(https://www.mcgill.ca/study/20
22-
2023/faculties/engineering/und
ergraduate/programs/bachelor
-engineering-beng-chemical-
engineering)

Bachelor of Engineering
(B.Eng.) - Civil Engineering
(https://www.mcgill.ca/study/20
22-
2023/faculties/engineering/und
ergraduate/programs/bachelor
-engineering-beng-civil-
engineering)

Bachelor of Engineering
(B.Eng.) - Co-op in Materials
Engineering
(https://www.mcgill.ca/study/20
22-
2023/faculties/engineering/und
ergraduate/programs/bachelor
-engineering-beng-co-op-
materials-engineering)

Bachelor of Engineering
(B.Eng.) - Co-op in Mining
Engineering
(https://www.mcgill.ca/study/20
22-
2023/faculties/engineering/und
ergraduate/programs/bachelor
-engineering-beng-co-op-
mining-engineering)

Bachelor of Engineering
(B.Eng.) - Honours Mechanical
Engineering
(https://www.mcgill.ca/study/20
22-
2023/faculties/engineering/und
ergraduate/programs/bachelor
-engineering-beng-honours-
mechanical-engineering)

Bachelor of Engineering
(B.Eng.) - Materials
Engineering
(https://www.mcgill.ca/study/20
22-
2023/faculties/engineering/und
ergraduate/programs/bachelor
-engineering-beng-materials-
engineering)

Bachelor of Engineering
(B.Eng.) - Mechanical
Engineering
(https://www.mcgill.ca/study/20
22-

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

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

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

Bachelor of Engineering
(B.Eng.) - Minor Construction Engineering and Management
([https://www.mcgill.ca/study/2022-](https://www.mcgill.ca/study/2022-2023/faculties/engineering/undergraduate/programs/bachelor-engineering-beng-minor-construction-engineering-and-management)

[2023/faculties/engineering/undergraduate/programs/bachelor-engineering-beng-minor-construction-engineering-and-management](https://www.mcgill.ca/study/2022-2023/faculties/engineering/undergraduate/programs/bachelor-engineering-beng-minor-construction-engineering-and-management))

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

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

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

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

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

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

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

22-
2023/faculties/arts/undergraduate/programs/bachelor-science-bsc-honours-mathematics-and-computer-science)

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

Bachelor of Science (B.Sc.) -
Liberal Program - Core
Science Component
Atmospheric and Oceanic
Sciences
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-atmospheric-and-oceanic-sciences>)

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

Bachelor of Science (B.Sc.) -
Major Chemistry: Biophysical
Chemistry
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-chemistry-biophysical-chemistry>)

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 Environment -
Atmospheric Environment and
Air Quality
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-environment-atmospheric-environment-and-air-quality>)

[environment-atmospheric-environment-and-air-quality](#))

[Bachelor of Science \(B.Sc.\) - Major Environment - Atmospheric Environment and Air Quality](#)
(<https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-science-bsc-major-environment-atmospheric-environment-and-air-quality>)

[Bachelor of Science \(B.Sc.\) - Major Physics](#)
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-physics>)

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




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

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

(<https://www.mcgill.ca>)

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