

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 350 Numerical Computing (3 credits)

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

Overview

Computer Science (Sci) : Computer representation of numbers, IEEE Standard for Floating Point Representation, computer arithmetic and rounding errors. Numerical stability. Matrix computations and software systems. Polynomial interpolation. Least-squares approximation. Iterative methods for solving a nonlinear equation. Discretization methods for integration and differential equations.

Terms: Fall 2022

Instructors: Chang, Xiao-Wen (Fall)

- 3 hours
- Prerequisites: [MATH 222 \(/study/2022-2023/courses/math-222\)](#) and [MATH 223 \(/study/2022-2023/courses/math-223\)](#) and one of: [COMP 202 \(/study/2022-2023/courses/comp-202\)](#), [COMP 208 \(/study/2022-2023/courses/comp-208\)](#), [COMP 250 \(/study/2022-2023/courses/comp-250\)](#); or equivalents.
- Restrictions: Students cannot receive credit for both [COMP 350 \(/study/2022-2023/courses/comp-350\)](#) and [MATH 317 \(/study/2022-2023/courses/math-317\)](#).

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/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-](#)

[ba-major-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 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 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 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 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 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>)

[aduate/programs/bachelor-science-bsc-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 Physics and Computer Science](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-physics-and-computer-science)
([https://www.mcgill.ca/study/2022-](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-physics-and-computer-science)

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



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