

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)

MATH 318 Mathematical Logic (3 credits)

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

Overview

Mathematics & Statistics (Sci) : Propositional logic: truth-tables, formal proof systems, completeness and compactness theorems, Boolean algebras; first-order logic: formal proofs, Gödel's completeness theorem; axiomatic theories; set theory; Cantor's theorem, axiom of choice and Zorn's lemma, Peano arithmetic; Gödel's incompleteness theorem.

Terms: Fall 2022

Instructors: Sabok, Marcin (Fall)

- Fall
- Prerequisite(s): [MATH 235 \(/study/2022-2023/courses/math-235\)](#) or [MATH 240 \(/study/2022-2023/courses/math-240\)](#) or [MATH 242 \(/study/2022-2023/courses/math-242\)](#).

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

[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 Mathematics](#)

(<https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-major-concentration-mathematics>)

[Bachelor of Arts \(B.A.\) - Major Concentration Mathematics](#)

(<https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-major-concentration-mathematics>)

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

Bachelor of Arts (B.A.) - Minor
Concentration Linguistics
([https://www.mcgill.ca/study/20](https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-minor-concentration-linguistics)

22-
2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-minor-concentration-linguistics)

Bachelor of Arts (B.A.) - Minor
Concentration Linguistics
([https://www.mcgill.ca/study/20](https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-ba-minor-concentration-linguistics)

22-
2023/faculties/basc/undergraduate/programs/bachelor-arts-ba-minor-concentration-linguistics)

Bachelor of Arts (B.A.) - Minor
Concentration Mathematics
([https://www.mcgill.ca/study/20](https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-minor-concentration-mathematics)

22-
2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-minor-concentration-mathematics)

Bachelor of Arts (B.A.) - Minor
Concentration Mathematics
([https://www.mcgill.ca/study/20](https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-ba-minor-concentration-mathematics)

22-
2023/faculties/basc/undergraduate/programs/bachelor-arts-ba-minor-concentration-mathematics)

Bachelor of Arts (B.A.) -
Supplementary Minor
Concentration in Computer
Science

([https://www.mcgill.ca/study/20](https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-supplementary-minor-concentration-computer-science)

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2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-supplementary-minor-concentration-computer-science)

Bachelor of Arts (B.A.) -
Supplementary Minor
Concentration in Mathematics
([https://www.mcgill.ca/study/20](https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-supplementary-minor-concentration-mathematics)

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2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-supplementary-minor-concentration-mathematics)

Bachelor of Arts and Science
(B.A. & Sc.) - Honours
Cognitive Science
([https://www.mcgill.ca/study/20](https://www.mcgill.ca/study/2022-2023/faculties/basc/undergrad)

22-
2023/faculties/basc/undergrad

[uate/programs/bachelor-arts-and-science-ba-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)
([https://www.mcgill.ca/study/2022-](https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-and-science-ba-sc-interfaculty-program-cognitive-science)

[2023/faculties/basc/undergraduate/programs/bachelor-arts-and-science-ba-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 Education \(B.Ed.\) - Secondary Mathematics](https://www.mcgill.ca/study/2022-2023/faculties/education/undergraduate/programs/bachelor-education-bed-secondary-mathematics)
([https://www.mcgill.ca/study/2022-](https://www.mcgill.ca/study/2022-2023/faculties/education/undergraduate/programs/bachelor-education-bed-secondary-mathematics)

[2023/faculties/education/undergraduate/programs/bachelor-education-bed-secondary-mathematics\)](https://www.mcgill.ca/study/2022-2023/faculties/education/undergraduate/programs/bachelor-education-bed-secondary-mathematics)

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

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

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

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

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[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)
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-mathematics-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)
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-minor-cognitive-science>)




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

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