

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 417 Linear Optimization (3 credits)

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

Overview

Mathematics & Statistics (Sci) : An introduction to linear optimization and its applications: Duality theory, fundamental theorem, sensitivity analysis, convexity, simplex algorithm, interior-point methods, quadratic optimization, applications in game theory.

Terms: Fall 2022

Instructors: Paquette, Courtney (Fall)

- Prerequisites: [COMP 202 \(/study/2022-2023/courses/comp-202/\)](#), and [MATH 223 \(/study/2022-2023/courses/math-223/\)](#) or [MATH 236 \(/study/2022-2023/courses/math-236/\)](#), and [MATH 314 \(/study/2022-2023/courses/math-314/\)](#) or equivalent
- Restriction: Not open to students who have taken or are taking [MATH 487 \(/study/2022-2023/courses/math-487/\)](#) or [MATH 517 \(/study/2022-2023/courses/math-517/\)](#).

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

[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 \(/https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-ba-major-concentration-mathematics/\)](#)

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

[Bachelor of Arts \(B.A.\) - Minor Concentration Mathematics \(/https://www.mcgill.ca/study/2022-2023/faculties/basc/undergrad](#)

[uate/programs/bachelor-arts-ba-minor-concentration-mathematics\)](#)

[Bachelor of Arts \(B.A.\) -
Supplementary Minor
Concentration in Mathematics
\(https://www.mcgill.ca/study/20
22-
2023/faculties/arts/undergradu
ate/programs/bachelor-arts-
ba-supplementary-minor-
concentration-mathematics\)](#)

[Bachelor of Arts \(B.A.\) -
Supplementary Minor
Concentration Statistics
\(https://www.mcgill.ca/study/20
22-
2023/faculties/arts/undergradu
ate/programs/bachelor-arts-
ba-supplementary-minor-
concentration-statistics\)](#)

[Bachelor of Arts \(B.A.\) -
Supplementary Minor
Concentration Statistics
\(https://www.mcgill.ca/study/20
22-
2023/faculties/basc/undergrad
uate/programs/bachelor-arts-
ba-supplementary-minor-
concentration-statistics\)](#)

[Bachelor of Commerce
\(B.Com.\) - Major
Concentration Mathematics for
Management Students
\(https://www.mcgill.ca/study/20
22-
2023/faculties/desautels/under
graduate/programs/bachelor-
commerce-bcom-major-
concentration-mathematics-
management-students\)](#)

[Bachelor of Education \(B.Ed.\)
- Secondary Mathematics
\(https://www.mcgill.ca/study/20
22-
2023/faculties/education/under
graduate/programs/bachelor-
education-bed-secondary-
mathematics\)](#)

[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
\(B.Eng.\) - Minor Mathematics
\(https://www.mcgill.ca/study/20
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2023/faculties/engineering/und](#)

[ergraduate/programs/bachelor
-engineering-beng-minor-
mathematics\)](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-engineering-beng-minor-mathematics)

[Bachelor of Science \(B.Sc.\) -
Liberal Program - Core
Science Component
Mathematics
\(https://www.mcgill.ca/study/20
22-
2023/faculties/science/undergr
aduate/programs/bachelor-
science-bsc-liberal-program-
core-science-component-
mathematics\)](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-mathematics)

[Bachelor of Science \(B.Sc.\) -
Liberal Program - Core
Science Component Statistics
\(https://www.mcgill.ca/study/20
22-
2023/faculties/science/undergr
aduate/programs/bachelor-
science-bsc-liberal-program-
core-science-component-
statistics\)](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 Mathematics
\(https://www.mcgill.ca/study/20
22-
2023/faculties/science/undergr
aduate/programs/bachelor-
science-bsc-major-
mathematics\)](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-mathematics)

[Bachelor of Science \(B.Sc.\) -
Major Statistics
\(https://www.mcgill.ca/study/20
22-
2023/faculties/science/undergr
aduate/programs/bachelor-
science-bsc-major-statistics\)](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-statistics)



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