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# COMP 566 Discrete Optimization 1 (3 credits)

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

## Overview

Computer Science (Sci) : Use of computer in solving problems in discrete optimization. Linear programming and extensions. Network simplex method. Applications of linear programming. Vertex enumeration. Geometry of linear programming. Implementation issues and robustness. Students will do a project on an application of their choice.

**Terms:** This course is not scheduled for the 2022-2023 academic year.

Instructors: There are no professors associated with this course for the 2022-2023 academic year.

- 3 hours
- Prerequisites: [COMP 360 \(/study/2022-2023/courses/comp-360\)](#) and [MATH 223 \(/study/2022-2023/courses/math-223\)](#)

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

[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>)

[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>)

[Doctor of Philosophy \(Ph.D.\) Computer Science](#)  
(<https://www.mcgill.ca/study/2022-2023/faculties/science/graduate/programs/doctor-philosophy-phd-computer-science>)

[Master of Science \(M.Sc.\) Computer Science \(Non-Thesis\)](#)  
(<https://www.mcgill.ca/study/2022-2023/faculties/science/graduate/programs/master-science-msc-computer-science-non-thesis>)

[22-2023/faculties/science/graduate/programs/master-science-msc-computer-science-non-thesis\)](https://www.mcgill.ca/study/2022-2023/faculties/science/graduate/programs/master-science-msc-computer-science-non-thesis)

[Master of Science \(M.Sc.\)  
Computer Science \(Thesis\)  
\(https://www.mcgill.ca/study/2022-2023/faculties/science/graduate/programs/master-science-msc-computer-science-thesis\)](https://www.mcgill.ca/study/2022-2023/faculties/science/graduate/programs/master-science-msc-computer-science-thesis)



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