

**Dynamic Schedule:** Visit [Minerva Class Schedule](#)[https://horizon.mcgill.ca/pban1/bwckschd.p\\_disp\\_dyn\\_sched](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 525 Sampling Theory and Applications (4 credits)

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

## Overview

Mathematics & Statistics (Sci) : Simple random sampling, domains, ratio and regression estimators, superpopulation models, stratified sampling, optimal stratification, cluster sampling, sampling with unequal probabilities, multistage sampling, complex surveys, nonresponse.

**Terms: Winter 2023**

Instructors: Yang, Archer Yi (Winter)

- Prerequisite: [MATH 324 \(/study/2022-2023/courses/math-324\)](#) or equivalent
- Restriction: Not open to students who have taken [MATH 425 \(/study/2022-2023/courses/math-425\)](#).

*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 \(B.A.\) - Major Concentration Statistics \(/https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-major-concentration-statistics\)](#)

[Bachelor of Arts \(B.A.\) - Major Concentration Statistics \(/https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-](#)

ba-major-concentration-statistics)

Bachelor of Arts (B.A.) - Minor Concentration Statistics  
(<https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-minor-concentration-statistics>).

Bachelor of Arts (B.A.) - Minor Concentration Statistics  
(<https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-ba-minor-concentration-statistics>).

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

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 Education (B.Ed.) - Secondary Mathematics  
(<https://www.mcgill.ca/study/2022-2023/faculties/education/undergraduate/programs/bachelor-education-bed-secondary-mathematics>).

Bachelor of Science (Agricultural and Environmental Sciences)  
([B.Sc.\(Ag.Env.Sc.\)](https://www.mcgill.ca/study/2022-2023/faculties/macdonald/und)) or  
Bachelor of Science (B.Sc.) - Major Environment - Environmetrics  
(<https://www.mcgill.ca/study/2022-2023/faculties/macdonald/und>

[ergraduate/programs/bachelor-science-agricultural-and-environmental-sciences-bscagenvsc-or-bachelor-science-bsc-major-2\)](#)

[Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) or Bachelor of Science \(B.Sc.\) - Major Environment - Environmetrics \(https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-science-agricultural-and-environmental-sciences-bscagenvsc-or-bachelor-science-bsc-major-2\)](#)

[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 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 Probability and Statistics \(https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-probability-and-statistics\)](#)

[Bachelor of Science \(B.Sc.\) - Honours Probability and Statistics \(https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-science-bsc-honours-probability-and-statistics\)](#)

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

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 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/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-statistics>)

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

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

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

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

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

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

[Doctor of Philosophy \(Ph.D.\) Quantitative Life Sciences](https://www.mcgill.ca/study/2022-2023/faculties/interfaculty/graduate/programs/doctor-philosophy-phd-quantitative-life-sciences)

[aduate/programs/doctor-philosophy-phd-quantitative-life-sciences](https://www.mcgill.ca/study/2022-2023/faculties/interfaculty/graduate/programs/doctor-philosophy-phd-quantitative-life-sciences)

[aduate/programs/doctor-philosophy-phd-quantitative-life-sciences](https://www.mcgill.ca/study/2022-2023/faculties/interfaculty/graduate/programs/doctor-philosophy-phd-quantitative-life-sciences)



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