

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 203 Principles of Statistics 1 (3 credits)

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

Overview

Mathematics & Statistics (Sci) : Examples of statistical data and the use of graphical means to summarize the data. Basic distributions arising in the natural and behavioural sciences. The logical meaning of a test of significance and a confidence interval. Tests of significance and confidence intervals in the one and two sample setting (means, variances and proportions).

Terms: Fall 2022, Winter 2023, Summer 2023

Instructors: Sajjad, Alia; Kreitewolf, Jens (Fall) Nadarajah, Tharshanna (Winter)

- No calculus prerequisites
- Restriction: This course is intended for students in all disciplines. For extensive course restrictions covering statistics courses see Section 3.6.1 of the Arts and of the Science sections of the calendar regarding course overlaps.
- You may not be able to receive credit for this course and other statistic courses. Be sure to check the Course Overlap section under Faculty Degree Requirements in the Arts or Science section of the Calendar. Students should consult <http://www.mcgill.ca/students/transferecredit> (<http://www.mcgill.ca/students/transferecredit>) for information regarding transfer credits for this course.

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

[Bachelor of Arts \(B.A.\) - Faculty Program Environment - Ecological Determinants of Health in Society.](#)
(<https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-faculty-program-environment-ecological-determinants-health-society>)

[Bachelor of Arts \(B.A.\) - Faculty Program Environment - Ecological Determinants of Health in Society.](#)
(<https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-arts-ba-faculty-program-environment-ecological-determinants-health-society>)

[Bachelor of Arts \(B.A.\) - Faculty Program Environment - Economics and the Earth's](#)

Environment
(<https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-faculty-program-environment-economics-and-earths-environment>)

Bachelor of Arts (B.A.) - Faculty Program Environment - Economics and the Earth's Environment
(<https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-arts-ba-faculty-program-environment-economics-and-earths-environment>)

Bachelor of Arts (B.A.) - Faculty Program Environment - Environment and Development
(<https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-faculty-program-environment-environment-and-development>)

Bachelor of Arts (B.A.) - Faculty Program Environment - Environment and Development
(<https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-arts-ba-faculty-program-environment-environment-and-development>)

Bachelor of Arts (B.A.) - Honours Geography
(<https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-honours-geography>)

Bachelor of Arts (B.A.) - Honours Urban Studies
(<https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-honours-urban-studies>)

Bachelor of Arts (B.A.) - Joint Honours Component Environment
(<https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-honours-urban-studies>)

[ba-joint-honours-component-environment](#)

Bachelor of Arts (B.A.) - Joint Honours Component Environment

([https://www.mcgill.ca/study/2022-](https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-arts-ba-joint-honours-component-environment)

[2023/faculties/environment/undergraduate/programs/bachelor-arts-ba-joint-honours-component-environment](https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-arts-ba-joint-honours-component-environment))

Bachelor of Arts (B.A.) - Joint Honours Component Geography

([https://www.mcgill.ca/study/2022-](https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-joint-honours-component-geography)

[2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-joint-honours-component-geography](https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-joint-honours-component-geography))

Bachelor of Arts (B.A.) - Joint Honours Component Geography

([https://www.mcgill.ca/study/2022-](https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-ba-joint-honours-component-geography)

[2023/faculties/basc/undergraduate/programs/bachelor-arts-ba-joint-honours-component-geography](https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-ba-joint-honours-component-geography))

Bachelor of Arts (B.A.) - Major Concentration Geography

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

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

Bachelor of Arts (B.A.) - Major Concentration Geography

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

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

Bachelor of Arts (B.A.) - Major Concentration Geography

(Urban Studies)

([https://www.mcgill.ca/study/2022-](https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-major-concentration-geography-urban-studies)

[2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-major-concentration-geography-urban-studies](https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-major-concentration-geography-urban-studies))

Bachelor of Arts (B.A.) - Major Concentration Geography

(Urban Studies)

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

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

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 Science for Arts
Students
(<https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-minor-concentration-science-arts-students>)

Bachelor of Arts and Science
(B.A. & 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>)

Bachelor of Arts and Science
(B.A. & Sc.) - Interfaculty
Program Environment
(<https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-and-science-ba-sc-interfaculty-program-environment>)

Bachelor of Arts and Science
(B.A. & Sc.) - Interfaculty
Program Environment
(<https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-arts-and-science-ba-sc-interfaculty-program-environment>)

Bachelor of Education (B.Ed.)
- Secondary Science and
Technology.
(<https://www.mcgill.ca/study/2022-2023/faculties/education/undergraduate/programs/bachelor-education-bed-secondary-science-and-technology>)

Bachelor of Engineering
(B.Eng.) - Bioengineering
(<https://www.mcgill.ca/study/2022-2023/faculties/engineering/undergraduate/programs/bachelor-engineering-beng-bioengineering>)

Bachelor of Engineering
(B.Eng.) - Minor Applied
Artificial Intelligence (22-25
credits)
(<https://www.mcgill.ca/study/2022-2023/faculties/engineering/undergraduate/programs/bachelor-engineering-beng-minor-applied-artificial-intelligence-22-25-credits>)

Bachelor of Science
(Agricultural and
Environmental Sciences)
(B.Sc.(Ag.Env.Sc.)) or
Bachelor of Science (B.Sc.) -
Major Environment -
Ecological Determinants of
Health - Cellular
(<https://www.mcgill.ca/study/2022-2023/faculties/macdonald/undergraduate/programs/bachelor-science-agricultural-and-environmental-sciences-bscagenvsc-or-bachelor-science-bsc-major-0>)

Bachelor of Science
(Agricultural and
Environmental Sciences)
(B.Sc.(Ag.Env.Sc.)) or
Bachelor of Science (B.Sc.) -
Major Environment -
Ecological Determinants of
Health - Cellular
(<https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-science-agricultural-and-environmental-sciences-bscagenvsc-or-bachelor-science-bsc-major-0>)

Bachelor of Science
(Agricultural and
Environmental Sciences)
(B.Sc.(Ag.Env.Sc.)) or

Bachelor of Science (B.Sc.) -
Major Environment -
Ecological Determinants of
Health- Population
(<https://www.mcgill.ca/study/2022-2023/faculties/macdonald/undergraduate/programs/bachelor-science-agricultural-and-environmental-sciences-bscagenvsc-or-bachelor-science-bsc-major-1>)

Bachelor of Science
(Agricultural and
Environmental Sciences)
(B.Sc.(Ag.Env.Sc.)) or
Bachelor of Science (B.Sc.) -
Major Environment -
Ecological Determinants of
Health- Population
(<https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-science-agricultural-and-environmental-sciences-bscagenvsc-or-bachelor-science-bsc-major-1>)

Bachelor of Science
(Agricultural and
Environmental Sciences)
(B.Sc.(Ag.Env.Sc.)) or
Bachelor of Science (B.Sc.) -
Major Environment - Food
Production and Environment
(<https://www.mcgill.ca/study/2022-2023/faculties/macdonald/undergraduate/programs/bachelor-science-agricultural-and-environmental-sciences-bscagenvsc-or-bachelor-science-bsc-major-3>)

Bachelor of Science
(Agricultural and
Environmental Sciences)
(B.Sc.(Ag.Env.Sc.)) or
Bachelor of Science (B.Sc.) -
Major Environment - Food
Production and Environment
(<https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-science-agricultural-and-environmental-sciences-bscagenvsc-or-bachelor-science-bsc-major-3>)

Bachelor of Science
(Agricultural and
Environmental Sciences)
(B.Sc.(Ag.Env.Sc.)) or
Bachelor of Science (B.Sc.) -
Major Environment - Water
Environments & Ecosystems -

Biological
(<https://www.mcgill.ca/study/2022-2023/faculties/macdonald/undergraduate/programs/bachelor-science-agricultural-and-environmental-sciences-bscagenvsc-or-bachelor-science-bsc-major-6>)

Bachelor of Science
(Agricultural and Environmental Sciences)
(B.Sc.(Ag.Env.Sc.)) or
Bachelor of Science (B.Sc.) -
Major Environment - Water
Environments & Ecosystems -
Biological
(<https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-science-agricultural-and-environmental-sciences-bscagenvsc-or-bachelor-science-bsc-major-6>)

Bachelor of Science
(Agricultural and Environmental Sciences)
(B.Sc.(Ag.Env.Sc.)) or
Bachelor of Science (B.Sc.) -
Major Environment - Water
Environments and
Ecosystems - Physical
(<https://www.mcgill.ca/study/2022-2023/faculties/macdonald/undergraduate/programs/bachelor-science-agricultural-and-environmental-sciences-bscagenvsc-or-bachelor-science-bsc-major-7>)

Bachelor of Science
(Agricultural and Environmental Sciences)
(B.Sc.(Ag.Env.Sc.)) or
Bachelor of Science (B.Sc.) -
Major Environment - Water
Environments and
Ecosystems - Physical
(<https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-science-agricultural-and-environmental-sciences-bscagenvsc-or-bachelor-science-bsc-major-7>)

Bachelor of Science
(Agricultural and Environmental Sciences)
(B.Sc.(Ag.Env.Sc.)) or
Bachelor of Science (B.Sc.) -
Major Environment-Land
Surface Processes and
Environmental Change

<https://www.mcgill.ca/study/2022-2023/faculties/macdonald/undergraduate/programs/bachelor-science-agricultural-and-environmental-sciences-bscagenvsc-or-bachelor-science-bsc-major-4>

[Bachelor of Science \(Agricultural and Environmental Sciences\) \(B.Sc.\(Ag.Env.Sc.\)\) or Bachelor of Science \(B.Sc.\) - Major Environment-Land Surface Processes and Environmental Change](https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-science-agricultural-and-environmental-sciences-bscagenvsc-or-bachelor-science-bsc-major-4)
(<https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-science-agricultural-and-environmental-sciences-bscagenvsc-or-bachelor-science-bsc-major-4>)

[Bachelor of Science \(B.Sc.\) - Honours Anatomy and Cell Biology](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-anatomy-and-cell-biology)
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-anatomy-and-cell-biology>)

[Bachelor of Science \(B.Sc.\) - Honours Atmospheric Science](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-atmospheric-science)
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-atmospheric-science>)

[Bachelor of Science \(B.Sc.\) - Honours Biochemistry](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-biochemistry)
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-biochemistry>)

[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)
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-earth-system-science>)

[Bachelor of Science \(B.Sc.\) - Honours Geography](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-geography)
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-geography>)

science-bsc-honours-
geography)

Bachelor of Science (B.Sc.) -
Honours Immunology
(Interdepartmental)
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-immunology-interdepartmental>)

Bachelor of Science (B.Sc.) -
Honours Microbiology and
Immunology
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-microbiology-and-immunology>)

Bachelor of Science (B.Sc.) -
Honours Pharmacology
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-pharmacology>)

Bachelor of Science (B.Sc.) -
Liberal Program - Core
Science Component Anatomy
and Cell Biology
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-anatomy-and-cell-biology>)

Bachelor of Science (B.Sc.) -
Liberal Program - Core
Science Component
Atmospheric and Oceanic
Sciences
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-atmospheric-and-oceanic-sciences>)

Bachelor of Science (B.Sc.) -
Liberal Program - Core
Science Component
Biochemistry
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-biochemistry>)

core-science-component-biochemistry).

Bachelor of Science (B.Sc.) -
Liberal Program - Core
Science Component
Geography.
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-geography>.)

Bachelor of Science (B.Sc.) -
Liberal Program - Core
Science Component
Microbiology and Immunology.
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-microbiology-and-immunology>.)

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 Anatomy and Cell
Biology.
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-anatomy-and-cell-biology>.)

Bachelor of Science (B.Sc.) -
Major Atmospheric Science
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-atmospheric-science>.)

Bachelor of Science (B.Sc.) -
Major Biochemistry.
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-biochemistry>.)

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>.)

[2023/faculties/science/undergraduate/programs/bachelor-science-bsc-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 Environment - Atmospheric Environment and Air Quality](https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-science-bsc-major-environment-atmospheric-environment-and-air-quality)
(<https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-science-bsc-major-environment-atmospheric-environment-and-air-quality>)

[Bachelor of Science \(B.Sc.\) - Major Environment - Atmospheric Environment and Air Quality](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-environment-atmospheric-environment-and-air-quality)
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-environment-atmospheric-environment-and-air-quality>)

[Bachelor of Science \(B.Sc.\) - Major Environment - Earth Sciences and Economics](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-environment-earth-sciences-and-economics)
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-environment-earth-sciences-and-economics>)

[Bachelor of Science \(B.Sc.\) - Major Environment - Earth Sciences and Economics](https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-science-bsc-major-environment-earth-sciences-and-economics)
(<https://www.mcgill.ca/study/2022-2023/faculties/environment/undergraduate/programs/bachelor-science-bsc-major-environment-earth-sciences-and-economics>)

[Bachelor of Science \(B.Sc.\) - Major Geography](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-geography)
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-geography>)

[Bachelor of Science \(B.Sc.\) - Major Microbiology and Immunology](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-microbiology-and-immunology)
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-microbiology-and-immunology>)

Bachelor of Science (B.Sc.) -
Major Pharmacology
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-pharmacology>)

Bachelor of Science (B.Sc.) -
Major Statistics
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-statistics>)

Bachelor of Science (B.Sc.) -
Minor Interdisciplinary Life
Sciences
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-minor-interdisciplinary-life-sciences>)

Bachelor of Science (B.Sc.) -
Minor Interdisciplinary Life
Sciences
(<https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-science-bsc-minor-interdisciplinary-life-sciences>)

Bachelor of Science
(Kinesiology) (B.Sc.
(Kinesiology)) - Kinesiology
(<https://www.mcgill.ca/study/2022-2023/faculties/education/undergraduate/programs/bachelor-science-kinesiology-bsckinesiology-kinesiology>)

Bachelor of Science
(Kinesiology) (B.Sc.
(Kinesiology)) - Kinesiology -
Honours
(<https://www.mcgill.ca/study/2022-2023/faculties/education/undergraduate/programs/bachelor-science-kinesiology-bsckinesiology-kinesiology-honours>)




Visit *Minerva Class Schedule* for
course dates & times

Class Schedule
(https://horizon.mcgill.ca/pban1/bwckschd.p_disp_dyn_sched)

(<https://www.mcgill.ca>)

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