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eCalendar (/study/2022-2023/) Programs, Courses & University Regulations Fall 2022-

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Dynamic Schedule: Visit Minerva Class Schedule

(https://horizon.mcgill.ca/pban1/bwckschd.p_disp_dyn_sched) for course dates & times.

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MATH 308 Fundamentals of Statistical Learning (3 credits)

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

Overview

Mathematics & Statistics (Sci): Theory and application of various techniques for the exploration and analysis of multivariate data: principal component analysis, correspondence analysis, and other visualization and dimensionality reduction techniques; supervised and unsupervised learning; linear discriminant analysis, and clustering techniques. Data applications using appropriate software.

Terms: Winter 2023

Instructors: Alam, Shomoita (Winter)

Prerequisite(s): MATH 208 (/study/2022-2023/courses/math-208), one of MATH 223 (/study/2022-2023/courses/math-223), MATH 236 (/study/2022-2023/courses/math-236), MATH 247 (/study/2022-2023/courses/math-247), MATH 251 (/study/2022-2023/courses/math-251); MATH 323 (/study/2022-2023/courses/math-323) or MATH 356 (/study/2022-2023/courses/math-356).

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/20 22-

2023/faculties/arts/undergradu ate/programs/bachelor-artsba-major-concentrationmathematics)

Bachelor of Arts (B.A.) - Major Concentration Mathematics (https://www.mcgill.ca/study/20 22-

2023/faculties/basc/undergrad uate/programs/bachelor-artsba-major-concentrationmathematics)

Bachelor of Arts (B.A.) - Major Concentration Statistics (https://www.mcgill.ca/study/20 22-

2023/faculties/arts/undergradu ate/programs/bachelor-artsba-major-concentrationstatistics)

Bachelor of Arts (B.A.) - Major Concentration Statistics (https://www.mcgill.ca/study/20 22-2023/faculties/basc/undergrad

uate/programs/bachelor-arts-

ba-major-concentrationstatistics)

Bachelor of Arts (B.A.) - Minor
Concentration Statistics
(https://www.mcgill.ca/study/20
222023/faculties/arts/undergradu
ate/programs/bachelor-artsba-minor-concentrationstatistics)

Bachelor of Arts (B.A.) - Minor
Concentration Statistics

Concentration Statistics
(https://www.mcgill.ca/study/20
222023/faculties/basc/undergrad
uate/programs/bachelor-artsba-minor-concentrationstatistics)

Bachelor of Arts (B.A.) Supplementary Minor
Concentration in Mathematics
(https://www.mcgill.ca/study/20
222023/faculties/arts/undergradu
ate/programs/bachelor-artsba-supplementary-minorconcentration-mathematics)

Bachelor of Arts (B.A.) Supplementary Minor
Concentration Statistics
(https://www.mcgill.ca/study/20
222023/faculties/arts/undergradu
ate/programs/bachelor-artsba-supplementary-minorconcentration-statistics)

Bachelor of Arts (B.A.) Supplementary Minor
Concentration Statistics
(https://www.mcgill.ca/study/20
222023/faculties/basc/undergrad
uate/programs/bachelor-artsba-supplementary-minorconcentration-statistics)

Bachelor of Science (B.Sc.) -Honours Applied Mathematics (https://www.mcgill.ca/study/20 22-2023/faculties/science/undergr aduate/programs/bachelor-

<u>aduate/programs/bachelor-science-bsc-honours-applied-mathematics)</u>

Bachelor of Science (B.Sc.) -Honours Applied Mathematics (https://www.mcgill.ca/study/20 22-2023/faculties/arts/undergradu ate/programs/bachelorscience-bsc-honours-appliedmathematics)

Bachelor of Science (B.Sc.) -Honours Mathematics (https://www.mcgill.ca/study/20 22-2023/faculties/arts/undergradu ate/programs/bachelorscience-bsc-honoursmathematics)

Bachelor of Science (B.Sc.) -Honours Mathematics (https://www.mcgill.ca/study/20 22-2023/faculties/science/undergr aduate/programs/bachelorscience-bsc-honoursmathematics)

Bachelor of Science (B.Sc.) -Honours Probability and Statistics (https://www.mcgill.ca/study/20 22-2023/faculties/science/undergr aduate/programs/bachelorscience-bsc-honoursprobability-and-statistics)

Honours Probability and
Statistics
(https://www.mcgill.ca/study/20
222023/faculties/arts/undergradu
ate/programs/bachelorscience-bsc-honoursprobability-and-statistics)

Bachelor of Science (B.Sc.) -

Bachelor of Science (B.Sc.) -Liberal Program - Core Science Component Mathematics (https://www.mcgill.ca/study/20 22-2023/faculties/science/undergr aduate/programs/bachelorscience-bsc-liberal-programcore-science-componentmathematics)

Bachelor of Science (B.Sc.) -Liberal Program - Core Science Component Statistics (https://www.mcgill.ca/study/20 22-2023/faculties/science/undergr aduate/programs/bachelorscience-bsc-liberal-programcore-science-componentstatistics)

Bachelor of Science (B.Sc.) Major Mathematics
(https://www.mcgill.ca/study/20
222023/faculties/science/undergr
aduate/programs/bachelorscience-bsc-majormathematics)

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Bachelor of Science (B.Sc.) - Major Statistics

(https://www.mcgill.ca/study/20

2023/faculties/science/undergr aduate/programs/bachelorscience-bsc-major-statistics)

<u>Bachelor of Science (B.Sc.) -</u>
<u>Major Statistics and Computer</u>
<u>Science</u>

(https://www.mcgill.ca/study/20 22-

2023/faculties/science/undergr aduate/programs/bachelorscience-bsc-major-statistics-

and-computer-science)

Bachelor of Science (B.Sc.) -Minor Statistics (https://www.mcgill.ca/study/20

22-2023/faculties/science/undergr aduate/programs/bachelorscience-bsc-minor-statistics)



Visit *Minerva Class Schedule* for course dates & times

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