(https://www.mcgill.ca)

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

5	е	а	r	С	r	١
,	C	а		v	ı	

Entire Site

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 556 Mathematical Statistics 1 (4 credits)

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

Overview

Mathematics & Statistics (Sci): Distribution theory, stochastic models and multivariate transformations. Families of distributions including location-scale families, exponential families, convolution families, exponential dispersion models and hierarchical models. Concentration inequalities. Characteristic functions. Convergence in probability, almost surely, in Lp and in distribution. Laws of large numbers and Central Limit Theorem. Stochastic simulation.

Terms: Fall 2022

Instructors: Stephens, David (Fall)

- Fall
- Prerequisite: MATH 357 (/study/2022-2023/courses/math-357) or equivalent

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

Bachelor of Arts (B.A.) - Major

Concentration Statistics (https://www.mcgill.ca/study/20 2023/faculties/arts/undergradu ate/programs/bachelor-arts-

ba-major-concentrationstatistics)

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

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

Bachelor of Arts (B.A.) -Supplementary Minor **Concentration Statistics** (https://www.mcgill.ca/study/20

2023/faculties/arts/undergradu ate/programs/bachelor-artsba-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-artsba-supplementary-minorconcentration-statistics)

Bachelor of Science (B.Sc.) -

Honours Probability and
Statistics
(https://www.mcgill.ca/study/20
222023/faculties/science/undergr
aduate/programs/bachelorscience-bsc-honoursprobability-and-statistics)

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

Honours Statistics and
Computer Science
(https://www.mcgill.ca/study/20
222023/faculties/science/undergr
aduate/programs/bachelorscience-bsc-honoursstatistics-and-computerscience)

Bachelor of Science (B.Sc.) -

Bachelor of Science (B.Sc.) Liberal Program - Core
Science Component Statistics
(https://www.mcgill.ca/study/20
222023/faculties/science/undergr
aduate/programs/bachelorscience-bsc-liberal-programcore-science-component-

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

statistics)

Bachelor of Science (B.Sc.) Minor Statistics
(https://www.mcgill.ca/study/20
222023/faculties/science/undergr
aduate/programs/bachelorscience-bsc-minor-statistics)

Doctor of Philosophy (Ph.D.)
Biostatistics
(https://www.mcgill.ca/study/20
222023/faculties/medicine/gradu

(https://www.mcgill.ca)

Copyright © 2023 McGill University

Accessibility (https://www.mcgill.ca/accessibility)

 $Log \ in \ {\color{red} \color{red} \underline{ \color{blue} a}} \ \ (/study/2022-2023/saml_login?destination=node/21754)$

<u>ate/programs/doctor-</u> <u>philosophy-phd-biostatistics)</u>

Doctor of Philosophy (Ph.D.)
Quantitative Life Sciences
(https://www.mcgill.ca/study/20
22-

2023/faculties/interfaculty/grad uate/programs/doctorphilosophy-phd-quantitativelife-sciences)

Master of Science (M.Sc.)
Biostatistics (Non-Thesis)
(https://www.mcgill.ca/study/20
222023/faculties/medicine/gradu
ate/programs/master-sciencemsc-biostatistics-non-thesis)

Master of Science (M.Sc.)

Biostatistics (Thesis)
(https://www.mcgill.ca/study/20
222023/faculties/medicine/gradu
ate/programs/master-sciencemsc-biostatistics-thesis)



Visit *Minerva Class Schedule* for course dates & times

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