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

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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 319 Partial Differential Equations (3 credits)

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

Overview

Mathematics & Statistics (Sci): First order equations, geometric theory; second order equations, classification; Laplace, wave and heat equations, Sturm-Liouville theory, Fourier series, boundary and initial value problems.

Terms: Winter 2023

Instructors: Bélanger-Rioux, Rosalie (Winter)

- Winter
- Prerequisites: MATH 223 (/study/2022-2023/courses/math-223) or MATH 236 (/study/2022-2023/courses/math-236), MATH 314 (/study/2022-2023/courses/math-314) or equivalent, MATH 315 (/study/2022-2023/courses/math-315)
- Not open to students who have taken or are taking MATH 475 (/study/2022-2023/courses/math-475).

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.) - Minor Concentration Mathematics (https://www.mcgill.ca/study/20 22-

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

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

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

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 Commerce
(B.Com.) - Major
Concentration Mathematics for
Management Students
(https://www.mcgill.ca/study/20
222023/faculties/desautels/under
graduate/programs/bachelorcommerce-bcom-majorconcentration-mathematicsmanagement-students)

Bachelor of Education (B.Ed.)
- Secondary Mathematics
(https://www.mcgill.ca/study/20
222023/faculties/education/under
graduate/programs/bacheloreducation-bed-secondarymathematics)

Bachelor of Engineering
(B.Eng.) - Minor Mathematics
(https://www.mcgill.ca/study/20
222023/faculties/engineering/und
ergraduate/programs/bachelor
-engineering-beng-minormathematics)

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

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

Bachelor of Science (B.Sc.) Honours Biology - Quantitative
Biology
(https://www.mcgill.ca/study/20
222023/faculties/science/undergr
aduate/programs/bachelor-

science-bsc-honours-biologyquantitative-biology)

Bachelor of Science (B.Sc.) -Honours Earth System
Science
(https://www.mcgill.ca/study/20
222023/faculties/science/undergr
aduate/programs/bachelorscience-bsc-honours-earthsystem-science)

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

Bachelor of Science (B.Sc.) Liberal Program - Core
Science Component
Atmospheric and Oceanic
Sciences
(https://www.mcgill.ca/study/20
222023/faculties/science/undergr
aduate/programs/bachelorscience-bsc-liberal-programcore-science-componentatmospheric-and-oceanicsciences)

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.) -Major Atmospheric Science (https://www.mcgill.ca/study/20 22-2023/faculties/science/undergr aduate/programs/bachelorscience-bsc-majoratmospheric-science)

Bachelor of Science (B.Sc.) Major Biology - Quantitative
Biology
(https://www.mcgill.ca/study/20
222023/faculties/science/undergr
aduate/programs/bachelorscience-bsc-major-biologyquantitative-biology)

Bachelor of Science (B.Sc.) -Major Biology and Mathematics

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

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

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

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

Bachelor of Science (B.Sc.) -Major Physics and Geophysics (https://www.mcgill.ca/study/20 22-

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

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

<u>Diploma (Dip.) Meteorology</u> (https://www.mcgill.ca/study/20 22-

and-mathematics)

2023/faculties/science/undergr aduate/programs/diploma-dipmeteorology)



Visit *Minerva Class Schedule* for course dates & times

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

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