

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 315 Ordinary Differential Equations (3 credits)

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

Overview

Mathematics & Statistics (Sci) : First order ordinary differential equations including elementary numerical methods. Linear differential equations. Laplace transforms. Series solutions.

Terms: Fall 2022, Winter 2023, Summer 2023

Instructors: Berk, Aaron (Fall) Bélanger-Rioux, Rosalie (Winter)

- Prerequisite: [MATH 222 \(/study/2022-2023/courses/math-222\)](#).
- Corequisite: [MATH 133 \(/study/2022-2023/courses/math-133\)](#).
- Restriction: Not open to students who have taken or are taking [MATH 325 \(/study/2022-2023/courses/math-325\)](#).

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 \(B.A.\) - Minor Concentration Mathematics \(/https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-minor-concentration-mathematics\)](#)

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

[ba-minor-concentration-mathematics\)](#)

[Bachelor of Arts \(B.A.\) - Minor Concentration Mathematics \(https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-minor-concentration-mathematics\)](#)

[Bachelor of Arts \(B.A.\) - Minor Concentration Mathematics \(https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-ba-minor-concentration-mathematics\)](#)

[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 Arts and Science \(B.A. & Sc.\) - Major Concentration Physics \(https://www.mcgill.ca/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-and-science-ba-sc-major-concentration-physics\)](#)

[Bachelor of Commerce \(B.Com.\) - Major Concentration Mathematics for Management Students \(https://www.mcgill.ca/study/2022-2023/faculties/desautels/undergraduate/programs/bachelor-commerce-bcom-major-](#)

concentration-mathematics-
management-students)

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.)) 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 (B.Sc.) -
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 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 Chemistry - Bio-
organic
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-chemistry-bio-organic>)

[2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-chemistry-bio-organic](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-chemistry-bio-organic))

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

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

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

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

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

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

[2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-physics-biological-physics\)](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-physics-biological-physics)

[Bachelor of Science \(B.Sc.\) - Honours Planetary Sciences \(https://www.mcgill.ca/study/2022-](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-planetary-sciences)

[2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-planetary-sciences\)](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-planetary-sciences)

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

[2023/faculties/science/undergraduate/programs/bachelor-science-bsc-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 Chemistry - General \(https://www.mcgill.ca/study/2022-](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-chemistry-general)

[2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-chemistry-general\)](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-chemistry-general)

[Bachelor of Science \(B.Sc.\) - Liberal Program - Core Science Component Mathematics \(https://www.mcgill.ca/study/2022-](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-mathematics)

[2023/faculties/science/undergraduate/programs/bachelor-science-bsc-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 Physics \(https://www.mcgill.ca/study/2022-](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-physics)

[2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-physics\)](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-physics)

[Bachelor of Science \(B.Sc.\) - Liberal Program - Core Science Component Statistics \(https://www.mcgill.ca/study/2022-](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-statistics)

[2023/faculties/science/undergraduate/programs/bachelor-science-bsc-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)

science-bsc-liberal-program-core-science-component-statistics).

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 Atmospheric Science
and Physics
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-atmospheric-science-and-physics>).

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 Chemistry - Bio-organic
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-chemistry-bio-organic>).

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

Bachelor of Science (B.Sc.) -
Major Computer Science and
Biology
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor>

[science-bsc-major-computer-science-and-biology](#)

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

[Bachelor of Science \(B.Sc.\) - Major Mathematics and Computer Science](#)
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-mathematics-and-computer-science>)

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

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

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

[Bachelor of Science \(B.Sc.\) -
Major Physics and Computer
Science](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-physics-and-computer-science)

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

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

[Bachelor of Science \(B.Sc.\) -
Major Physics and Geophysics](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-physics-and-geophysics)

[\(https://www.mcgill.ca/study/2022-
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science-bsc-major-physics-
and-geophysics\)](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-physics-and-geophysics)

[Bachelor of Science \(B.Sc.\) -
Major Physics: Biological
Physics](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-physics-biological-physics)

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

[Bachelor of Science \(B.Sc.\) -
Major Physiology and
Mathematics](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-physiology-and-mathematics)

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

[Bachelor of Science \(B.Sc.\) -
Major Physiology and Physics](https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-physiology-and-physics)

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

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

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

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

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


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

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