Science

HEALTH AND LIFE SCIENCES

200.HR

DEC IN SCIENCE

2 YEARS

www.dawsoncollege.qc.ca/health-life

If you would like to:

- ☐ Be well prepared for university studies in life sciences, medicine, ecology or environmental sciences
- ☐ Have priority for advanced chemistry and biology courses that are prerequisites for medicine
- ☐ Have priority for Integrative Project sections that relate to biology and chemistry, including health and the environment
- ☐ Explore advanced ideas in mathematics, physics, chemistry and biology
- ☐ Understand the natural world
- ☐ Use logical reasoning to solve problems
- ☐ Recognize how scientific knowledge is constructed
- ☐ Obtain a DEC in Science

Then the Health and Life Sciences Profile could be for you.

Dreaming of a career in medicine, dentistry or health and life sciences? The Health and Life Sciences Profile is designed for students with a particular interest in biology and chemistry.

The first year gives students a wide variety of courses in science disciplines. The second year allows students to go deeper into disciplines related to health science. They will take the prerequisite courses for medicine: Human Anatomy and Physiology; and Organic Chemistry. In addition, they will have guaranteed spots in courses related to health and environmental science for their Integrative Project.

Students in this profile are part of a brilliant and curious learning community. Dawson's Health and Life Sciences students are Quebec's future leaders in medicine, research, industry and academia.

> **Health Science at Dawson was the perfect preparation for university. It gave me the opportunity to learn, become autonomous, have fun and make life-long memories and friendships.**
>
> — Sophie E.

What will you learn?

- To think like a scientist
- To employ a scientific method
- To read and analyze scientific publications
- To choose and appropriately use digital technologies to support learning, to present content, to model, to simulate and to program
- To design and implement a scientific project
- To collect, analyze and communicate experimental data
- To solve complex problems

Where will this program lead you?

Graduates of this profile are well prepared for a wide variety of university studies, such as medicine, dentistry, physiotherapy, physiology, biochemistry, pharmacology, veterinary medicine, ecology, or environmental sciences.

What do you need to apply?

- Secondary V Chemistry
- Secondary V Physics
- Secondary V Mathematics: Technical & Scientific option (TS) or Science option (SN)

Application Deadline

March 1 • November 1

Health Science Option Courses

Health Science students will choose two option courses from this list. Please note that not all courses are offered every year.

- Human Anatomy and Physiology
- Field and Community Ecology
- Biotechnology
- Topics in Biology
- Multivariable Calculus
- Discrete Mathematics
- Linear Algebra 2
- Topics in Mathematics
- Organic Chemistry
- Environmental Chemistry
- Forensic Chemistry
- Organic Chemistry 2
- Topics in Chemistry
- Astrophysics
- Engineering Physics
- Medical Physics
- Topics in Physics
- Physical Geology
- Topics in Geology
- Programming in Science 2
- Programming for Data Science
- Algorithms: Real World Applications
- Topics in Computer Science
- Applied Mathematics in Science
- Topics in Science

LIST OF SPECIFIC COURSES

All students must also take General Education courses such as English, French, Humanities and Physical Education, in addition to complementary courses.

YEAR 1

Term 1	Term 2
▪ Calculus I ▪ General Chemistry ▪ Ecology and Evolution	▪ Calculus II ▪ Mechanics ▪ Cellular Biology OR Chemistry of Solutions ▪ Programming in Science

YEAR 2

Term 3	Term 4
▪ Probability and Statistics ▪ Electricity and Magnetism ▪ Cellular Biology OR Chemistry of Solutions ▪ Choice (1): Option Course	▪ Linear Algebra and Vector Geometry ▪ Waves and Modern Physics ▪ Choice (1): Option Course ▪ Integrative Project

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