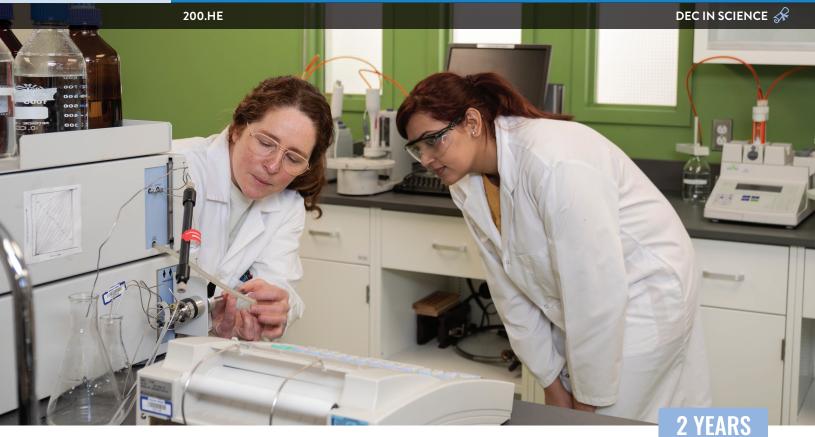
# **ENRICHED HEALTH AND LIFE SCIENCES**



## www.dawsoncollege.qc.ca/enriched-health-life

### If you would like to:

Science

- Be part of a small and super committed learning community
- Go beyond the Health and Life Sciences curriculum and challenge yourself
- Learn outside the classroom through extracurricular activities
- Participate in field trips to world-class research facilities
- Conduct original research with Dawson teachers
- Be well prepared for university studies in life sciences, medicine, ecology or environmental sciences
- Ensure you have the prerequisites required for medicine

Then the Enriched 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.



The Enriched Science program has taught me to think outside of the box when it comes to science. I enjoy being able to solve complex problems with my peers in an interactive classroom, designing my own lab experiments, and partaking in multiple extra-curricular activities that fuel my passion about science as a whole!

— Mahan M.

#### 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

### 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

The information contained in this document was accurate and complete at the time of printing

- 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	YEAR 2
Term 1	Term 3
<ul><li>Calculus I</li><li>General Chemistry</li><li>Ecology and Evolution</li></ul>	<ul> <li>Probability and Statistics</li> <li>Electricity and Magnetism</li> <li>Choice (1): Cellular Biology OR Chemistry of Solutions</li> <li>Choice (1): Option Course</li> </ul>
Term 2	Term 4
<ul> <li>Calculus II</li> <li>Mechanics</li> <li>Choice (1): Cellular Biology OR Chemistry of Solutions</li> <li>Programming in Science</li> </ul>	<ul> <li>Linear Algebra and Vector Geometry</li> <li>Waves and Modern Physics</li> <li>Choice (1): Option Course</li> <li>Integrative Project</li> </ul>



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