

Pure & Applied Science 200.PR

2 YEARS

Application deadline › March 1 • November 1

www.dawsoncollege.qc.ca/pure-applied

If you would like to:

- Be well prepared for university studies in areas such as engineering, physics, mathematics, or computer science
- 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
- Take advanced courses in physics, mathematics and computer science
- Obtain a DEC in Science

Then the Pure and Applied Science Profile could be for you.

Explore, research and discover what interests you most in the vast world of science. The Pure and Applied Science Profile offers exposure to many disciplines in the first year. In the second year, students can go deeper into topics of particular interest, such as ecology and the environment, engineering, and computer science. The Integrative Project is another opportunity to choose what you wish to learn.



The emphasis on collaboration and the importance of cross-disciplinary research are values taught here that will serve me well in the future as a scientist.

– Benjamin C.

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 profile lead you?

Graduates of this profile are well prepared for a wide variety of university studies, such as engineering, physics, mathematics, or computer science.

What do you need to apply?

- A Diploma of Secondary Studies (DES) or academic background judged equivalent to the DES
- Sec V Mathematics – Technical & Scientific option or Science option 564-506 or 565-506
- Sec V Chemistry 551-504
- Sec V Physics 553-504

Selection of Science Option Courses

Pure and Applied 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
- Multivariable Calculus
- Discrete Mathematics
- Linear Algebra 2
- Organic Chemistry
- Environmental Chemistry
- Forensic Chemistry
- Organic Chemistry 2
- Astrophysics
- Engineering Physics
- Medical Physics
- Physical Geology
- Programming in Science 2
- Programming for Data Science
- Algorithms: Real World Applications
- Applied Mathematics in Science