



Health Science Pure & Applied Science

2009 2010 | Science Program | 200.B0 |

my Champlain

Champlain
COLLEGESAINTE-LAMBERT



The Program

The two-year pre-university Health Science and Pure & Applied Science options prepare you for admission to the faculties of Science, Engineering, and Health Sciences at university.

At Champlain College Saint-Lambert, we have found that the best way for students to succeed is by making them part of the courses they take and giving them the opportunity to study scientific problems the way professional scientists do. In Biology, this means that you spend less time listening to lectures and more time participating in group activities and studying relevant cases. In Chemistry, you have the opportunity to put into practice what you learn thanks to a major lab component in each course. In Physics, option courses that are directly relevant to trends in science and engineering are added to the curriculum.

Certain courses are compulsory for admission to university. Students must follow a course profile that satisfies the entrance requirements of the university program they intend to follow.

Health Science students will choose one Option course from Biology, Chemistry, Mathematics or Physics.

Pure & Applied Science students will take three option Science or Math courses. Calculus III and two other Physics courses are strongly recommended.

Academic Advisors are available to assist students with university pre-requisites.

Petite explication du programme de science

Le programme de Science au cégep Champlain Saint-Lambert vous offre une formation rigoureuse pour une excellente préparation pré-universitaire. Notre programme est offert en deux options – Sciences pures et appliquées et Sciences de la santé. Les étudiants choisissent l'option qui les mènera aux études universitaires en sciences pures, en sciences appliquées ou en sciences de la santé. À la première année du programme, les deux options offrent des cours communs en mathématique, chimie, physique et biologie. À la deuxième année, les étudiants ajoutent les préalables nécessaires pour satisfaire aux critères d'admission pour l'université. À partir du premier trimestre, nos conseillers pédagogiques sont disponibles pour discuter des préalables universitaires et de la cote de rendement (cote R).

Health Science Pure & Applied Science



Semester Breakdown

Health Science

Semester 1	Semester 2	Semester 3	Semester 4
<ul style="list-style-type: none"> English Humanities French Physical Education Calculus I General Chemistry I Mechanics 	<ul style="list-style-type: none"> English Humanities Complementary Physical Education General Biology I Calculus II General Chemistry II 	<ul style="list-style-type: none"> English Humanities Complementary General Biology II Organic Chemistry I Waves & Modern Physics 	<ul style="list-style-type: none"> English French Physical Education Linear Algebra Electricity & Magnetism One Optional Course

Pure & Applied Science

Semester 1	Semester 2	Semester 3	Semester 4
<ul style="list-style-type: none"> English Humanities French Physical Education Calculus I General Chemistry I Mechanics 	<ul style="list-style-type: none"> English Humanities Complementary Physical Education Calculus II General Chemistry II Waves & Modern Physics 	<ul style="list-style-type: none"> English Humanities Complementary General Biology I Linear Algebra Electricity & Magnetism 	<ul style="list-style-type: none"> English French Physical Education Three Optional Courses

Facilities

The Chemistry Department has four fully equipped labs each accommodating a maximum of 20 students. The labs are equipped with laptop computers and the latest data acquisition tools. Students can see the relationship between the equipment and the results in real time. Other equipment included are: an Atomic Absorption Spectrophotometer, a Gas Chromatograph, an Infrared Spectrophotometer, and nine Electronic Analytical Balances.

The Physics Department has four fully equipped labs, three of which are used by students to perform standard experiments and one which is used for special projects. The labs are equipped with the latest in computerized tools for data collection and analysis that will enhance your experimental skills. Each lab workstation is equipped with a Pentium computer as well as sophisticated sensors and data-acquisition devices that allow you to immediately see the outcome of your work.

In **the Biology Department's** two fully equipped labs, students pursue open-ended inquiries of their own design. While some students make high-quality digital recordings of the behavior of pond life under a microscope, others use computers to delve into the mysteries of protein structure using research quality molecular imaging programs. Sophisticated computer software simulates biological systems and processes otherwise difficult or impossible to study. Teachers and students draw upon a comprehensive collection of specimens, video clips and models to augment their labs and lectures.

Which science Program should I take?

You should apply for the Health Science option if you wish to pursue a career in one of the following fields:

- Biotechnology
- Dentistry
- Dietetics
- Forensics
- Medicine
- Nursing
- Nutrition
- Occupational Therapy
- Optometry
- Pharmacy
- Physiotherapy
- Psychology (B.Sc.)
- Veterinary Medicine

You should apply for the Pure & Applied Science option if you wish to pursue a career in one of the following fields:

- Agriculture
- Architecture
- Computer Science
- Engineering
- Forestry
- Geology
- Math (B.Sc.)
- Physics (B.Sc.)
- Scientific Research

Minimum Admission Requirements

In order to be admitted to a program leading to a Diploma of College Studies (DEC), candidates must possess a Secondary School Diploma or have completed a level of education that is deemed equivalent by the College. Applicants should also have successfully completed Mathematics 536, Chemistry 534 and Physics 534 at the high school level. The detailed admissions requirements can be found in the Admissions Handbook.

Admission Priorities

Even if candidates to programs meet the requirements of the *Règlement sur le régime des études collégiales*, they may be refused admission because of the lack of places.

Application Deadline

- March 1st for the Fall Semester.
- November 1st for the Winter Semester.

Information and Applications

Web Site: www.ChamplainOnLine.com

or

Contact your high school guidance counselor or our Admissions Office.

Contact Information

900 Riverside Drive, Saint-Lambert, Quebec J4P 3P2

Call or fax us at

Tel: 450-672-6240 Fax: 450-672-8297

Toll Free: 1-877-929-9197

Reach us on the Internet

E-mail: admissions@champlaincollege.qc.ca

Web Site: www.champlainonline.com

Champlain College Saint-Lambert is a campus of Champlain Regional College