



Explorations Science

2009-2010 | Orientation & Integration Sessions | 081.01 |

my Champlain

Champlain
COLLEGESAINTE-LAMBERT



The Program

Explorations Science is designed for students who want Sciences but are missing the required high school pre-requisite courses. This option is not open to students who passed their high school math/science courses. Nor is it designed for students who have tried but failed these prerequisite courses.

Students who apply for the preparatory Explorations Science year should be advised that it will require dedication and motivation on their part. The Sciences are among the most difficult subjects at the college and university level. The amount of homework assigned will be considerable in order to maximize your preparation.

A proper science preparation requires one full year of study. In the first semester, we will provide you with the basics of Physical Science and Mathematics. In the second semester you will cover the CEGEP equivalent of Chemistry 534, Physics 534 and an appropriate Mathematics course.

The Explorations in Mathematics course offered in the first semester will help students develop skills necessary to succeed in college level science and mathematic courses. Emphasis will also be placed on the development of study skills and scientific methodology which students must develop in order to succeed in Science.

Une petite explication de l'option « Explorations Science »

L'option « Explorations Science » est conçue pour les étudiants qui veulent s'inscrire à un programme relié aux sciences et dont les cours préalables n'ont jamais été complétés au secondaire. Les étudiants s'inscrivent aux cours de sciences physiques 436, mathématiques 436 ou 536, chimie 534 et/ou physique 534 et, suite à la réussite des deux sessions d'orientation et d'intégration, ils effectuent un transfert dans un programme collégial relié aux sciences ou dans tout autre programme. Ce programme n'est pas admissible pour ceux qui ont échoués un des cours préalables au secondaire ou dont les notes ne sont pas assez fortes pour être accepté dans un programme de sciences régulier.

Explorations Science

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.

Explorations Science

Possible combination of semester courses depending on high school prerequisites

Since this option has been designed for students who did not have the opportunity to register for Math 436 or 536, Physical Science 436, Chemistry 534 and Physics 534 courses at the high school level, in order to better prepare the students, the equivalent Mathematics and Physical Science courses will be offered in the Fall semester and the equivalent Chemistry 534 and Physics 534 courses will only be available in the Winter semester.

Possible combinations	From High School	Fall semester	Winter semester
<h1>1</h1>	<ul style="list-style-type: none"> • Math 514 • Physical Science 416 or 436 	<ul style="list-style-type: none"> • 201-007 Algebra (equivalent to Math 436) • 982-021 Physical Science (similar to Physical Science 436 but with a broader curriculum) • 360-D2G-LA Complementary course in Mathematics 	<ul style="list-style-type: none"> • 201-009 Functions and trigonometry (equivalent to Math 536) • 202-006 Chemistry (equivalent to Chemistry 534) • 203-006 Physics (equivalent to Physics 534)
<h1>2</h1>	<ul style="list-style-type: none"> • Math 436 • Physical Science 416 or 436 	<ul style="list-style-type: none"> • 201-009 Functions and trigonometry (equivalent to Math 536) • 982-021 Physical Science (similar to Physical Science 436 but with a broader curriculum) • 360-D2G-LA Complementary course in Mathematics 	<ul style="list-style-type: none"> • 201-NYA Calculus I • 202-006 Chemistry (equivalent to Chemistry 534) • 203-006 Physics (equivalent to Physics 534)
<h1>3</h1>	<ul style="list-style-type: none"> • Math 536 • Physical Science 416 or 436 	<ul style="list-style-type: none"> • 201-NYA Calculus I • 101-NYA General Biology I • 982-021 Physical Science (similar to Physical Science 436 but with a broader curriculum) • 360-D2G-LA Complementary course in Mathematics 	<ul style="list-style-type: none"> • 201-NYB Calculus II • 202-006 Chemistry (equivalent to Chemistry 534) • 203-006 Physics (equivalent to Physics 534)



PLEASE NOTE: that students who have passed either the Physical Science 416 or the Physical Science 436 course at the high school will still be required to register for our 982-021 Physical Science course in the fall. The curriculum for this course is broader than the one at the high school level as it contains material in the Chemistry area. Exceptions will be made for students who received a passing grade of 85% or higher in their Physical Science course at the high school.

Minimum Admission Requirements

In order to be admitted candidates must possess a Secondary School Diploma including Math 514 and Physical Science 416 or have completed a level of education that is deemed equivalent by the College.

For detailed admissions requirements please refer to the Admissions Handbook.

Admission Priorities

Explorations Science is limited in enrolment due to space constraints as well as its rigorous nature. As such not all qualified candidates can be admitted.

Application Deadline

- March 1st for the Fall 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