

# INTERNATIONAL BACCALAUREATE



## What is IB? What is IB about?

The IB Diploma Program is a world-renowned program of study leading to the attainment of the International Baccalaureate "Diploma", a strong pre-university qualification. The program is designed by the International Baccalaureate Organization (IBO) and is adapted to the Québec CEGEP system. Students who complete the program earn both the IB Diploma and the Diplôme d'Études Collégiales (DEC). This pre-university degree is recognized worldwide as an indicator of a well-prepared, hard-working and well-rounded student.

## What's special about IB?

The IB Diploma Program gives students a solid knowledge foundation in their specific area of study and helps them to enhance their general academic skills (writing, critical thinking, textual analysis, for instance). It also encourages students to develop an international perspective and to expand the horizons of their concerns and intellectual interests to encompass the entire world. Students who complete the IB program will have a deep and thorough understanding of their focal subject of studies (i.e. experimental sciences) and, also, an appreciation for the knowledge and learning methods of other subject areas. They will be able to approach their studies and meet learning challenges with confidence.

## Who chooses IB (at Vanier)?

Students who choose to pursue studies in the IB program are keen learners, curious about the world in its multiple facets and interested in international events and developments. They tend to be organized, motivated, hard-working yet modest. IB students are willing to take on the challenge of a demanding program knowing that they are engaged in studies with peers following a similar curriculum throughout the world.

## What approach is used in teaching?

The IB Diploma Program aims to give students a sense of the interconnectedness of various areas of inquiry and knowledge. Therefore, while deepening knowledge in the concentration subject of study, teaching also seeks to show the relations between subjects studied in the program. The Theory of Knowledge course, a core course of the program, is especially tuned to this learning aim. Courses are also designed with a view to highlighting international aspects of the subject. Teachers follow the curricular guidelines of both the IBO and the Ministry of Education of Québec.

For more on IB program at Vanier see: [www.vaniercollege.qc.ca/ib](http://www.vaniercollege.qc.ca/ib)  
For more information on the IBO and the Diploma Program see: [www.ibo.org](http://www.ibo.org)



# INTERNATIONAL BACCALAUREATE – SCIENCE OPTION

The IB Diploma Program is a world-renowned pre-university program that combines the curriculum of the International Baccalaureate Organization (IBO) with the educational requirements of the Quebec CEGEP system. The Program offers students an opportunity to undertake a course of studies leading to the IBO Diploma and the Quebec Diplôme d'Études Collégiales. The IBO Diploma is recognized by universities worldwide as a strong pre-university qualification and as a sign of a student who is a keen, motivated and skilled learner.

The Program's curriculum gives students a solid foundation in their main subject of study (ie. the physical sciences), but also emphasizes the acquisition of writing, speaking and critical thinking skills and an understanding and appreciation of cultural diversity and human commonalities. Students who approach their studies with maturity and focus and who enjoy learning and expanding their intellectual horizons will find the program appealing and rewarding.

In keeping with the IB Organization's educational philosophy putting great value on the development of the intellectual, emotional and physical self, the Program includes a component known as Creativity, Action, Service (CAS). This core element of the program stresses the importance of learning outside the classroom through participation, assisting others and developing creative talents. Among the ways that students satisfy the CAS requirement is by taking on community service projects or pursuing activities that build aesthetic or athletic interests and abilities.

I loved the IB program. I had to work really hard but it was worth it. I was so proud once I finished it and got my IB diploma. I think it almost meant more to me than my DEC. IB taught me a lot about myself. It teaches you to know your limits and how to accomplish all you have to do.

And I made friends in IB at Vanier. It was a great group and really special. We always hung out together and studied together and we've remained friends. That's something I didn't even have in high school.

We still get together every few months and we have this connection because we shared this very intense challenge.

I'm now at Concordia University in the Computer Engineering Co-op program and I think IB truly prepared me for this. I know when to study and when to take a break. I meet other students around me who didn't learn how to study at all in Cegep and it's tough for them now. IB taught me how to study effectively.

When I go for job interviews and they ask me about my proudest accomplishment I always tell them "Graduating from the IB program at Vanier College".

**Julia Lemire**

International Baccalaureate Science 2008

## PROGRAM GRID

### SEMESTER 1

Calculus 1  
General Chemistry 1  
Physics: Mechanics  
English  
Humanities  
French  
Physical Education

### SEMESTER 2

Calculus 2  
Chemistry of Solutions  
Physics: Waves and Modern Physics  
Introduction to Cultural Anthropology  
English  
Humanities  
French

### SEMESTER 3

General Biology 1  
Linear Algebra 1  
Physics: Electricity and Magnetism  
Anthropology: Culture and the Dynamics of Change  
English

### SEMESTER 4

General Biology 2  
Statistics  
Organic Chemistry 1  
Anthropology: Fieldwork and Cultural Knowledge  
English  
French

## INTERNATIONAL BACCALAUREATE – SCIENCE OPTION 200.10

### ADMISSION REQUIREMENTS:

Admission to the College is on the basis of the Québec Secondary School Diploma (Diplôme d'études secondaires), including Secondary V first and second language, and Secondary IV Mathematics or equivalent scholarship completed outside the province. As well, students who have graduated from secondary school in Québec must have passed Secondary IV Science, Mathematics, and History.

### Admission to International Baccalaureate - Science requires the following pre-requisite courses:

- Math 406 and 506; or Cegep Math 201-009; or adult education MTH 5101-5111 (inclusive)
- Physics 504; or Cegep Physics 203-006; or adult education PHS 5041, 5042 & 5043 with labs
- Chemistry 504; or Cegep Chemistry 202-006; or adult education CHE 5041, 5042 & 5043 with labs
- Science 558-404 or 558-402; or Cegep Physical Science 982-021; or adult education PSC 4010, 4011, 4012.

Admission to International Baccalaureate - Science requires a Letter of Intent with the application.

### Coordinator:

science@vaniercollege.qc.ca or  
514.744.7500 local 6024  
for more information about the Science programs

Admissions to any Science profile or Program is limited.  
Apply early.

### Admissions Information:

admissions@vaniercollege.qc.ca or  
514.744.7100 or 514.744.7881

### Website:

www.vaniercollege.qc.ca/ib  
for the International Baccalaureate program  
www.vaniercollege.qc.ca/science  
for Science programs

These sites all list appropriate Program Grids, Course Descriptions and Graduation and Academic standards.

### Coordinator:

ib@vaniercollege.qc.ca or  
514.744.7500 local 6020  
for more information about the IB Science program

### Extra Charges:

The IB program charges a fee of \$500 per semester.