

The Science program provides students with a balanced education that integrates both the basic components of rigorous scientific learning and a general education foundation. Graduates are equipped with a solid grounding in mathematics, chemistry, physics and biology and optionally earth science. Problem-solving skills and critical thinking are developed throughout. Courses are taught using an interdisciplinary learning approach where students apply scientific problem-solving techniques in a variety of contexts.

The Science program is also designed to develop well-rounded students who become informed, concerned and active citizens in local, national and global communities.



### **THIS PROGRAM IS FOR YOU IF...**

- You are intellectually curious, motivated, and would like to pursue your studies in a science-related field.
- You have a keen interest in developing skills in effective oral and written communication, and analytical and critical thinking.

### **WHAT DISTINGUISHES THE PROGRAM OFFERED AT JAC FROM OTHERS LIKE IT?**

The Science program at John Abbott is unique in that the students have the flexibility to choose their option courses according to the prerequisites required for admission to the university program of their choice.

After completing a general first year of Science, students select their three option courses, allowing them the freedom to choose courses leading either to a Health Science or Pure & Applied orientation. This program flexibility allows students the possibility of selecting the courses that are of greatest interest to them as we offer a wide range of science option courses from Marine Biology to Independent Research projects in laboratories. Students are sure to find courses that will excite and inspire them. In the Science courses, we support a very hands-on approach making strong use of our laboratory facilities.

Another distinguishing feature of this program is the level of support provided to students through faculty office hours, individual appointments, organized peer tutorial sessions, as well as customized support through the Academic Success Centre.

### **ADMISSION REQUIREMENTS**

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- + Mathematics TS 5 or SN 5
- + Sec. 5 Chemistry
- + Sec. 5 Physics

### **LEARNING COMMUNITIES**

All first-semester students will be pre-registered into a "Learning Community". Students in Science will have two courses paired – Chemistry of Solutions and Mechanics. In other words, the same students will be registered in each of the two sections forming a cohesive group. The Learning Communities model gives students a better opportunity to learn collaboratively and make friends. The result is a cohort of engaged students who benefit from a network of peer support and feel more connected to their program of study.

## SCIENCE OPTION COURSES

### BIOLOGY

101-DCN-05	General Biology II	101-DDJ-05	Biological Marine Science
101-DDB-05	Human Anatomy & Physiology	101-DDM-05	Human Genetics

### MATHEMATICS

201-DDB-05	Calculus III	201-DDD-05	Statistical Methods
201-DDC-05	Linear Algebra II		

### CHEMISTRY

202-DCP-05	Organic Chemistry I	202-DDP-05	Forensic Chemistry
202-DDB-05	Organic Chemistry II	202-ENV-AB	Environmental Sciences
202-DDN-05	Chemistry of the Environment		

### PHYSICS

203-DDB-05	Physics for Engineers	203-DDM-05	Astronomy
203-DDC-05	Astrophysics	203-ENV-05	Environmental Sciences

### EARTH/OCEAN SCIENCE

205-DDC-AB	Earth, Moon and Planets – Planetary Geology	205-DDN-AB	Introduction to Oceanography
205-DDM-05	Understanding Planet Earth	205-DDP-AB	Earth System Science

### MULTI-DISCIPLINARY

360-RES-AB	Independent Research Project	360-FRE-AB	Field Research in Environmental Science
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### WHERE SCIENCE CAN TAKE YOU!

This program is intended for students who wish to further their studies or pursue careers in all science-related fields and beyond. This includes but is not limited to agriculture, architecture, astronomy, biological sciences, biochemistry, chemistry, computer science, dentistry, dietetics, education, engineering, environmental sciences, forestry, geological and climate sciences, kinesiology, mathematics, medicine, nursing, nutrition, occupational therapy, optometry, pharmacy, physics, physiotherapy and veterinary medicine.



### HOW TO APPLY

John Abbott College is affiliated with the *Service régional d'admission du Montréal métropolitain* (SRAM) and uses its online application service.

To apply:

- complete the online application at [admission.sram.qc.ca](http://admission.sram.qc.ca),
- select John Abbott College and the program of your choice along with the corresponding program number, and
- if applicable, send all required documents and the application fee.

Students whose prerequisites are more than five years old should contact the Admissions office.

The application deadline is March 1 for the fall semester and November 1 for the winter semester. All documents and payment must be submitted by the deadline.

**Program start: fall and winter**

## PROGRAM PLANNER

### FIRST SEMESTER

603-101-MQ	ENGLISH
345-1__-MQ	HUMANITIES
109-1__-MQ	PHYSICAL EDUCATION
__-__-__-__	COMPLEMENTARY COURSE

All three of these courses:

201-NYA-05	Calculus I <sup>1</sup>
202-NYB-05	Chemistry of Solutions <sup>1</sup>
203-NYA-05	Mechanics <sup>1</sup>

### SECOND SEMESTER

603-1__-MQ	ENGLISH
602-1__-MQ	FRANÇAIS
345-1__-MQ	HUMANITIES
109-1__-MQ	PHYSICAL EDUCATION

Three of the following:

101-NYA-05	General Biology I
201-NYB-05	Calculus II
202-NYA-05	General Chemistry
203-NYB-05	Electricity and Magnetism

### THIRD SEMESTER

603-1__-MQ	ENGLISH
345-2__-AB	HUMANITIES
109-103-MQ	PHYSICAL EDUCATION
__-__-__-__	Science course not taken in 2nd semester

And two of the following:

201-NYC-05	Linear Algebra I
203-NYC-05	Waves Optics and Modern Physics
__-__-__-__	Science Option course <sup>2</sup>

### FOURTH SEMESTER

603-200-AB	ENGLISH
602-2__-AB	FRANÇAIS
__-__-__-__	COMPLEMENTARY COURSE

Remaining 3 science courses:

__-__-__-__	Science Option course <sup>2</sup>
__-__-__-__	Science Option course <sup>2</sup>
__-__-__-__	Science Option or required course <sup>2</sup>

1. Students will be pre-registered in these three courses.
2. Refer to the Science Option Course Chart for courses.

Courses taken by some students may need to be adjusted due to recent changes brought to the "Charte de la langue française" by Bill 96.