

200.B0

SCIENCE MAJOR IN ENGINEERING MATHEMATICS AND PHYSICS

This Science Major is a cluster of Pure and Applied Science courses with a special emphasis on the use of computers in the learning of science. In particular, students use MATLAB, the industry standard mathematical software used by research scientists and engineers. Students take their science and math courses together, gaining benefits from their common values and skills. In their final semester a specially designed Differential Equations course reinforces the bonds and approaches achieved.

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PROGRAM GRID

SEMESTER 1

Calculus 1
General Chemistry 1
Mechanics
English
Humanities
Physical Education
French or Complementary

SEMESTER 2

Calculus 2
Chemistry of Solutions
Waves and Modern Physics
English
Humanities
Physical Education
French or Complementary

SEMESTER 3

Linear Algebra
Electricity and Magnetism
1 Science Option course
English
Humanities or French
Physical Education or Complementary

SEMESTER 4

Differential Equations
General Biology 1
1 Science Option course
English
Humanities or French
Physical Education or Complementary

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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 Science Major in Engineering Mathematics and Physics 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.

Admissions Information:

admissions@vaniercollege.qc.ca or
514.744.7100 or 514.744.7881

Coordinator:

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