DEC 200.PR

T/V

SCIENCE DEPARTMENT

PURE & APPLIED SCIENCE

2 YEARS - PRE-UNIVERSITY



ABOUT THE PROGRAM

Pure and Applied Science is a two-year pre-university DEC program that prepares students to pursue university studies in the physical, computer, or engineering sciences.

We ensure that students are well-equipped for university studies by training them in the fundamentals of the physical and engineering sciences by using methods such as:

- Differential equations
- Advanced calculus
- Statistics
- Problem-solving in engineering physics using MATLAB

UNIVERSITY STUDY OPTIONS

- Mechanical Engineering
- Electrical Engineering
- Aerospace Engineering
- Bioengineering
- Urban Development
- Architecture
- Bio-architecture
- Software Engineering
- Bio-physics
- Much more!

ADMISSION REQUIREMENTS

International students entering our DEC (Diploma of College Studies) programs must have completed schooling that is considered equivalent to a high school diploma issued by the Quebec Ministry of Education (MEES).

WHAT WILL YOU LEARN?

Necessary foundations in mathematics and physics to give you as many options for university studies as possible.

Fundamentals of the physical sciences and engineering.

SEMESTER BREAKDOWN **PURE AND APPLIED SCIENCE**



SEMESTER 1

- 603-101-MQ INTRODUCTION TO COLLEGE **ENGLISH**
- 345-101-MQ KNOWLEDGE
- 602-100-MQ BASIC FRENCH
- 201-NYA-05 CALCULUS I
- 202-NYA-05 GENERAL CHEMISTRY
- 203-NYA-05 MECHANICS

SEMESTER 2

- 603-102-MQ LITERARY GENRES
- 602-TVA-TV FRENCH FOR SPECIFIC **PROGRAMS**
- 109-101-MQ PHYSICAL ACTIVITY AND **HEALTH**
- 101-NYA-05 GENERAL BIOLOGY I
- 201-NYB-05 CALCULUS II
- 202-NYB-05 CHEMISTRY OF SOLUTIONS

SEMESTER 3

- 603-103-MQ LITERARY THEMES
- 345-102-MQ WORLD VIEWS
- 109-102-MQ PHYSICAL ACTIVITY AND **EFFECTIVENESS**
- 420-PRA-TV INTRODUCTION TO **PROGRAMMING**
- 201-NYC-05 LINEAR ALGEBRA
- 203-NYB-05 ELECTRICITY AND **MAGNETISM**

SEMESTER 4

- 603-TVE-TV ENGLISH ADAPTED TO **PROGRAM**
- 109-103-MQ PHYSICAL ACTIVITY AND **AUTONOMY**
- 345-TVH-TV CRITICAL THOUGHT APPLIED TO WORLD ISSUES
- 203-NYC-05 WAVES, OPTICS, AND **MODERN PHYSICS**
- 203-EPH-TV PROBLEM-SOLVING IN **ENGINEERING PHYSICS**
- 360-200-TV INTEGRATION PROJECT

LEGEND:



GENERAL EDUCATION COURSES



PROGRAM-SPECIFIC COURSES

BILINGUAL STUDIES OPTION

We offer students the option of completing their general education courses in French while completing their program-specific courses in English.

For more details: tav.ca/bilingual-studyoption/