



PURE AND APPLIED SCIENCE

ABOUT

Pure and Applied Science is a two-year pre-university DEC program that prepares students to pursue university studies in physics, mathematics and statistics, aerospace, electrical, mechanical, software, or civil engineering, and much more.

- 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

QUICK INFO

Pre-University

DEC

2 Years

 200.PR

 DEC

 4 semesters

 Start dates: Fall, Winter

 In-person; Daytime

PURE AND APPLIED SCIENCE

COURSE LIST

SEMESTER 1

- 603-101-MQ INTRODUCTION TO COLLEGE ENGLISH
- 345-101-MQ KNOWLEDGE
- 602-100-MQ BASIC FRENCH
- 201-NYA-05 CAL I: DIFFERENTIAL CALCULUS
- 202-NYA-05 GENERAL CHEMISTRY: MATTER
- 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
- 201-NYB-05 CAL II - INTEGRAL CALCULUS
- 202-NYB-05 CHEMISTRY OF SOLUTIONS
- 101-NYA-05 GENERAL BIOLOGY I

SEMESTER 3

- 603-103-MQ LITERARY THEMES
- 345-102-MQ WORLD VIEWS
- 109-102-MQ PHYSICAL ACTIVITY AND EFFECTIVENESS
- 420-TVB-TV USE OF MICROCOMPUTER SOFTWARE
- 201-NYC-05 LINEAR ALGEBRA AND VECTOR GEOMETRY
- 203-NYB-05 ELECTRICITY AND MAGNETISM
- 420-PRA-TV INTRODUCTION TO PROGRAMMING

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

IS THIS FOR YOU?

The Pure and Applied Science DEC program is for the student who wishes to have a career in engineering, architecture, mathematics, statistics, or the physical sciences. If you are interested in solving problems using mathematics and are curious about the modern world's evolving physical and technical infrastructures, this program may be for you.

AFTER THE PROGRAM?

This program prepares students to apply to university in any of the following disciplines:

Fundamental Sciences:

- Chemistry
- Biology
- Biochemistry
- Physics
- Mathematics

Engineering and Architecture:

- Aerospace engineering
- Mechanical engineering
- Electrical engineering
- Building engineering
- Civil engineering
- Computer engineering
- Software engineering
- Industrial engineering
- Chemical engineering
- Architecture
- Many other programs