



Large demand for BSET grads

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Building Systems Engineering Technology

Palmarès Lauréat Winner 2011

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This program gives students the expertise necessary to design heating, ventilation, air conditioning and refrigeration (HVAC&R) systems in modern buildings.

Graduates are able to design and maintain those systems as well as the necessary control mechanisms, in order to have healthy, comfortable environments in all types of buildings. Students apply theory and principles of engineering to develop, operate and test the electrical, lighting, plumbing, and fire protection systems along with the HVAC&R operations of any modern building.

Job placement possibilities are excellent for graduates. Students have a variety of career choices in manufacturing, contracting, building operations and in the design of commercial, institutional and industrial building systems.

Graduates of this program have significant advantages. The General Studies component of the program opens the possibility of continuing on to university. This option is taken by approximately 20% of graduates. In addition, the General Studies component teaches students superior communication skills that can open further possibilities in areas like administration or sales. In any case, graduates earn very competitive salaries with good opportunities for advancement.

Students of this program are qualified to become members of *L'ordre des technologues professionnels du Québec (OTPQ)* that gives them professional recognition and certain advantages such as awards, professional contacts, and job information.

What can I do after I graduate with a DEC in Building Systems Engineering Technology?

Graduates are employed in designing with consulting engineering firms, and as cost estimators on construction projects, supervisors of building maintenance teams, technical and sales representatives with manufacturers and distributors of HVAC systems, and HVAC inspectors with government and city agencies. Job Futures Quebec states: "Reflecting the strong growth rate in this occupation, the labour market ... is better than average for all technical program graduates, mainly because of a good rate of placement in training-related jobs and a relatively low unemployment rate."

Yes, it is possible to continue on to university studies from this program.

Graduates applying to university should consult with an Academic Advisor to know the prerequisites of the program they wish to apply to. At certain institutions BSET graduates may receive advanced standing.

Program Grid

SEMESTER 1

Principles of Electric Controls
Computer Software
English
Physical Education
French
Humanities
Complementary

SEMESTER 2

Applied Mathematics
Intro to HVAC-CAD
Intro to HVAC and Construction
Principles of Heat and Fluids
English
Humanities
Physical Education

SEMESTER 3

Elements of Calculus
Physics: Mechanics
HVAC Systems Layouts-CAD
Ventilation Systems
Construction Security and Codes
English
French

SEMESTER 4

Strength of Materials
Heating Systems
Industrial Ventilation/IAQ
Electrical and Lighting Systems
Refrigeration Systems
Humanities
Complementary

SEMESTER 5

Air Conditioning Systems
Plumbing Systems
Refrigeration Project
HVAC Controls
Fire Protection Systems
Work Place Psychology
English

SEMESTER 6

Energy Conservation
HVAC Cost Estimation
HVAC Project Management
Internship
HVAC Project
Physical Education



Admission Requirements

Admission to the College is on the basis of the Quebec Secondary School Diploma (*Diplôme d'études secondaires*); or the Quebec Diploma of Vocational Education (*Diplôme d'études professionnelles*) with Secondary 5 first and second languages as well as Secondary 4 Mathematics; or equivalent scholarship completed outside the province.

Admission to Building Systems Engineering Technology requires

Math TS/SN 406 or Cegep Math 201-013-50 or adult education MTH 4101-4111 (inclusive)

Science 558-404 or 558-402 or Cegep Physical Science 982-003-50 or adult education PSC 4010, 4011, 4012

Admissions Information

admissions@vaniercollege.qc.ca or
514.744.7100 or 514.744.7881
BSET accepts students for Winter admissions.

Website

www.vaniercollege.qc.ca/building-systems-engineering
for more information including Course Descriptions
and Graduation and Academic Standard

Coordinator

bset@vaniercollege.qc.ca or
514.744.7500 local 6003
for more information about the BSET program