

**Ontario College Diploma,
2 years – Technician (1002)**

**Ontario College Advanced Diploma,
3 years – Technology (1001)**

Starts September

PROGRAM OUTLINE – Technician & Technology

Semester 1

ESET 120 Basic Electrical Circuits
ESET 130 Energy Systems 1
ESET 140 Introduction to RE Technologies
ESET 160 Computer Applications
ESET 170 Basic Engineering Mathematics
ESET 190 College Writing Skills

Semester 2

ESET 210 PTLF Measurement
ESET 230 Energy Systems 2
ESET 250 Applied Thermodynamics 1
ESET 260 Blueprint Reading & Basic Drafting
ESET 270 Mathematical Applications
ESET 320 AC Systems
GENE 26 Problem Solving

Semester 3

ESET 220 Electronic Devices
ESET 330 Skills Certifications
ESET 360 2D Computer Aided Drafting
ESET 441 Renewable Energy Systems 1:
Electrical Generation
WRIT 13 Technical Writing

Semester 4

ESET 350 Applied Thermodynamics II
ESET 310 Electrical Power Distribution
& Metering
ESET 410 Energy Systems Control
ESET 430 Energy Auditing Project
ESET 442 Renewable Energy Systems 2: Heat
Production
GENE 21 Entrepreneurship 1
ESET 491 Energy Programs & Government
Legislation

Semester 5

ESET 510 Advanced Energy Systems Control
ESET 540 Renewable & Alternative Energy
Systems Design
ESET 560 Energy Systems Design &
Simulation Software
ESET 561 Computer Aided Design &
Presentation
ESET 630 Energy Management Design
Project
GENE General Elective Course

Semester 6

ESET 631 Energy Management Design
Project II
ESET 680 Technical Report & Placement
Seminar
ESET 690 Work Experience Placement

FOR MORE INFORMATION

CONTACT RECRUITING

Call: 1-800-463-0752

Email: dreamit@sl.on.ca

Visit: www.stlawrencecollege.ca

Program Coordinator:

David Athersych, MSc. P. Eng.,
613-544-5400, ext.1245, dathersych@sl.on.ca

PROGRAM HIGHLIGHTS

Become part of the exciting new field of energy efficiency and sustainable energy systems that is emerging as Canada confronts issues of increasing energy costs and the serious environmental impacts of conventional energy usage.

Our Energy Systems Engineering Technician and Technology graduates will fill the growing needs of employers in this rapidly expanding field. Your work will involve energy auditing and modelling of existing conventional heating and lighting systems and specifying energy efficiency improvements for residential and commercial buildings. You will also be trained in the sizing, specification and implementation of solar photovoltaic, solar thermal and other sustainable energy systems.

Unique to St. Lawrence College is Energy House, the site of the Energy Systems Engineering Technology and Technician practical laboratories in renewable energy. Opened in Fall 2005, this off-grid training facility offers a comprehensive selection of renewable energy equipment for hands-on training in solar thermal and photovoltaic, ground source heat pump, small wind, solar air heating, and other sustainable energy technologies. (Visit <http://energyhouse.ati.sl.on.ca>)

FEES

2009-10 tuition fees are \$2219. Compulsory fees are \$982.15. All fees are subject to change for 2010-11.

Entrance Scholarships are available for this program. Please refer to our website for details: www.stlawrencecollege.ca/awards.

ADDITIONAL COSTS

Books, lab kits and supplies (estimate):

First year: Fall \$400, Winter \$400.

ADMISSION REQUIREMENTS

Ontario Secondary School Diploma or equivalent with the following prerequisite:

- Grade 12 Math at the C or U level (or MCR3U or MCF3M)

The majority of Grade 11 and 12 courses must be college or university preparation level.