



ENERGY SYSTEMS ENGINEERING TECHNOLOGY

Congratulations and Welcome to Energy Systems Engineering Technology

COVID-19 Information: First semester of your trades program will be a blended delivery approach. Practical components will be delivered face-to-face at the campus in your program's shops. Social distancing, frequent hand-washing, and other COVID-19 protocols are in place at all campuses. The theory portion of your program will be delivered via online/distance. You will require a computer and a good internet connection for the online/distance part of your program. For details on the minimal technical requirements for online/distance learning at Holland College, please visit

<https://www.hollandcollege.com/technical-requirements-for-blended-and-distance-learning.html>

Schedules are in the process of being finalized but as a general rule practical training will be full days on campus, theory will be full days off campus via remote delivery. We will share the schedule as soon as it is completed. To support any students travelling from outside the province who may need to self isolate, programs will accommodate you through distance delivery for the first two weeks of classes (September 1-14). Students that do not need to self isolate in the first two weeks are encouraged to attend practical training class days. If the current directive of self-isolation from the PEI Chief Public Health Office changes between now and September 1, students will be advised of changes by Holland College.

If you have any specific questions about COVID-19, please email our student Experience Team at: student-inquiries@hollandcollege.com

Instructors' Contact information:

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Start date & Time:

September 1, 2020 at 9:00 am

Location of Classroom:

Centre for Applied Science and Technology (CAST)
Prince of Wales Campus, 300 Kent Street, Charlottetown
Room #316

Christmas Break:

End of First Semester - December 11, 2020
Start of Second Semester -January 6, 2021

February Break:

February 22-26, 2021

Easter Break: April 2-5, 2021

End of Semester Two: April 23, 2021

Program Overview:

The Energy Systems Engineering Technology program will train people to understand how energy is generated, distributed, and consumed and how we need to make smart choices to ensure a sustainable flow of energy while maintaining our lifestyle. If you are interested in acquiring the knowledge and skills to make a difference in the way, we use energy to ensure sustainability of the planet this program is the place to start.

During the two years of this program, students will learn about the different methods of both traditional and emerging energy production, energy storage, distribution and utilization. Students will also learn about traditional and more modern efficient building practices. Software such as Hot2000 and RETSREEN will be used to model energy loads and evaluate choices for energy efficiency and conservation. Hands-on familiarity of renewable energy technologies, including solar photovoltaic, solar thermal, wind, geothermal, biomass, biofuel and others will be explored in the laboratory and in the field.

Student Tool and Clothing Requirements:

Laptop: Windows 10 or newer – video and audio capabilities. Microsoft Office Suite will be supplied by the college.

Calculator: Scientific (Recommended: Casio FX-991MS) ***

Foot Safety: Safety Boots with green and orange tags ***

Work Wear: Clothing suitable to work in outdoor conditions ***

Headphones & Microphone: Online courses and watching instructional videos in class ***

Recommended Supplies - Will be supplied by program but you may want your own:

Eye Safety: CSA approved Glasses/Goggles ***

Ear Safety Protection: Ear Plugs***

Hard Hat: Type 2 CSA approved ***

Student Books and Resource Materials

1st Year Students:

- Safety & Blueprint ILM Packages - Required Sept 3, 2020 *
- Delmar's Standard Textbook of Electricity, 6th Edition - Required Sept 3, 2020 *
- Green Building, Principles & Practices in Residential Construction - Required Oct 2020 *
- Computer Essentials – Pearson Custom Access Code – Required Sept 2020 *
- Technical Mathematics – Required Sept 2020 **
- Building Auditor Level 2 Trainee guide – Required Sept 2020*
- Beginning AutoCAD 2021 – Required Jan 2021 *
- Energy Savings Toolbox – Required Jan 2021**
- Physics Workbook – Required Jan 2021*
- Photovoltaic Systems, 3rd Edition, James P. Dunlop – Required Sept 2020 *

* = Available at Holland College Bookstore

** = Supplied by ESET Program

*** = Not needed for the first day. Recommend waiting to discuss with Learning Managers prior to purchasing