

Electrical Systems Technology



HEARTLAND
COMMUNITY COLLEGE

Certificate

31 Semester Hours

General Education Requirements

COMM	101	Intro to Oral Communication	3
MATH	109	College Algebra for Math & Science	4
Or			
TMAT	103	Technical Mathematics I*	<u>4</u>
		TOTAL	7

Technical Core Requirements

ELTC	102	DC Electronics	3
ELTC	103	AC Electronics	3
ELTC	206	Digital Electronics & Microprocessors	3
ELTC	207	Solid State Electronics	
		Troubleshooting & Measurements	3
		* Technical Electives	<u>12</u>
		TOTAL	24

* Technical Electives

Technical Elective concentrations may be taken from the following groups. Other electives are possible as approved by advisor or department.

Building Automation

CNST	103	Building Mechanical & Electrical Systems	3
MAIN	222	Industrial Controllers	3
REEC	110	Green Building Technology	3
REEC	210	Building Automation	3

Electronic Systems Technology

ELTC	212	Automation & Control Electronics	3
ELTC	220	Data Communications	3
MAIN	201	Electrical Wiring & Maintenance	3
Or			
NETW	208	Data and Cabling Systems	3
NETW	160	Introduction to Networking	3

Renewable Energy

ELTC	212	Automation & Control Electronics	3
MAIN	102	Mechanical Systems	3
REEC	140	Renewable Energy Concepts I	3
REEC	240	Renewable Energy Concepts II	3

Electrical Maintenance

ELTC	212	Automation & Control Electronics	3
MAIN	101	Industrial Electricity and Systems	3
MAIN	201	Electrical Wiring & Maintenance	3
MAIN	222	Industrial Controllers	3

Program Description

The Electrical Systems Technology Certificate is a one-year program designed to prepare graduates for employment or advancement in electrical-related maintenance areas within industry. This program includes introductions to electricity, electronics, digital electronics and solid state electronics, and allows students to select elective courses. Students choosing to continue their education after the Electrical Systems Technology Certificate may easily continue into the Electronic Systems Technology, Renewable Energy, or Maintenance Technology Associate in Applied Science degree programs.