

Electrical Engineering Technology

College of Lake County Grayslake · Vernon Hills · Waukegan · Online

Program Overview

Engineering, Math & Physical Sciences
Division, Room T102 (847) 543-2044

www.clcillinois.edu/programs/elt

ELECTRICAL ENGINEERING TECHNOLOGY (Associate in Applied Science) Plan 24ED

Students are prepared to work in research,
electronic layout, instrumentation, design, field
service, communication and service laboratories.

To complete an A.A.S., students must meet General
Requirements detailed in the current CLC catalog.
Visit www.clcillinois.edu/catalog/ (select Career
Programs).

Required General Education Coursework . 16

MTH 122	College Algebra	4
ENG 120	Technical Composition I	3
PHI 122	Logic	3
SOC 121	Introduction to Sociology	3
CMM 121	Fundamentals of Speech	3

Required EET Coursework 32

EET 115	Electronic Laboratory Techniques	2
EET 113	Solid State Electronics	4
EET 170	DC Circuit Fundamentals	2
EET 173	DC Analysis-Network Theorems	2
EET 174	AC Fundamentals	2
EET 175	AC Analysis & Circuit Theorems	2
EET 211	Advanced Solid State Electronics	4
EET 212	Electronic Communication Systems	3
EET 213	Introduction to Digital Electronics	4
EET 216	Microprocessors I	4
EET 230	Electrical Machinery	3

Additional Required Coursework 23

PSY 122	Psychology in Business and Industry	3
ECO 221	Principles of Macroeconomics or	
ECO 222	Principles of Microeconomics	3
MTH 123	Trigonometry	3
MTH 145	Calc. & Analytic Geometry I	5
MTH 146	Calc. & Analytic Geometry II	4
PHY 121	General Physics	5

Total Hours for A.A.S. Degree 71

ELECTRICAL TECHNOLOGY (Certificate) Plan 24EF

A minimum of 35 semester hours of credit must be
completed for the certificate. Although courses are
generally selected from the following, other subjects
may be taken as part of a program with division
approval.

Minimum Required Coursework 35

Select a minimum of 31 hours from the list below:

EET 113	Solid State Electronics	4
EET 173	DC Analysis-Network Theorems and	
EET 170	DC Circuit Fundamentals	4
EET 174	AC Fundamentals and	
EET 175	AC Analysis and Circuit Theorems	4
EET 211	Advanced Solid State Electronics	3
EET 212	Electronic Communications Systems	3
EET 213	Introduction to Digital Electronics	4
EET 216	Microprocessors I	4
ELT 111	Electronic Drafting	2
ELT 116	Technical Programming	3
ELT 217	Microprocessors II	3
MTH 117	Technical Mathematics I	3
MTH 118	Technical Mathematics II	4
PHY 120	Practical Aspects of Physics	4

PC TECHNICIAN (Certificate) Plan 22CI

The PC Technician certificate provides career
training for students entering the computer
technical support field. The skill sets involved in this
certificate provide the training for individuals who
install, maintain, upgrade and repair PC hardware
and software. This certificate helps prepare the
student for the A+ Certification exam. Proficiency
credit through examination is available for CIT 120
and EET 170.

CIT 120	Introduction to Computers	3
CIT 130	Operating Systems for A+ Certification	3
EET 170	DC Circuit Fundamentals	2
ELT 151	PC Hardware Fundamentals	3
ELT 152	PC Peripherals and Troubleshooting	3

Total Hours for Certificate 14

Typical Jobs *

- Electronics Engineering Technician
- Refurbish Technician
- Electrical Technician
- Electronics Test Technician
- Engineering Aide
- Failure Analysis Technician
- Field Engineer

Salary Range *

\$31,300 - \$78,000

Job Outlook *

Overall employment of
engineering technicians is
expected to grow about as
fast as the average for all
occupations. Opportunities
will be best for individuals
with an associate degree or
extensive job training in
engineering technology.

Transfer Schools

CLC will have agreements with
the following institutions by
Fall 2008:

- Milwaukee School
of Engineering
- Southern Illinois
University
- DeVry University

* Career information is based on
data from the Bureau of Labor
Statistics for the Chicagoland area.



Electrical Engineering Technology

ELECTRICAL/ELECTRONIC MAINTENANCE (Certificate) Plan 24EH

This program provides students with the skills necessary to perform trouble-shooting and maintenance procedures in industry. Students with experience in the field and demonstrating appropriate knowledge may be given advanced standing in the program.

EET 170	DC Circuit Fundamentals	2
ELC 113	Basic Instrumentation and Shop Practices	2
ELC 172	Applied AC Circuit Theory	2
ELT 117	Industrial Digital Electronics I	3
ELT 118	Industrial Digital Electronics II	3
ELT 171	Industrial Control Systems	3
ELT 172	Applied Communication Systems	3
ELT 173	Applied Analog Circuits	3
ENG 120	Technical Composition I or	
ENG 121	English Composition I	3
MTH 114	Applied Mathematics I or	
MTH 117	Technical Mathematics I	3
	Technical Elective (see below)	3-4

Total Hours for Certificate 30-32

Technical Electives:

CNA 111	Cisco Networking	3
CNA 112	Cisco Networking II	3
CNA 113	Cisco Networking III	3
CNA 114	Cisco Networking IV	3
EET 230	Electrical Machinery	3
ELC 114	Motor and Machine Control	3
ELC 171	Programmable Logic Controllers	3
ELC 215	Power Transmission and Distribution	4
ELT 151	PC Hardware Fundamentals	3
ELT 152	PC Peripherals and Troubleshooting	3
ROB 111	Introduction to Robotics	3

How to Register

Visit www.clcillinois.edu/credit/register/ for steps on how to register.

What Does an Electrical Engineering Technologist Do?

Electronics are the “brains” that drive our gadgets—and our lives—cell phones, MP3 players, DVD players, electric cars and thousands of other products!

- Help design and fix products that can change lives.
- Make computers faster and smarter.
- Make your cell phone smaller and better.
- Power-up today’s hot gadgets, from Segways to robotic vacuum cleaners

What can you do with a degree in Electrical Engineering Technology?

A person with a two-year degree usually works as an assistant to the person with a four-year degree.

- Designing
- Making and testing
- “Tweaking” and customizing
- Maintaining and troubleshooting
- Repairing at home office or in the field
- Sales

In CLC’s Program, You’ll Learn

- Electronic circuits
- How to use electronic instruments
- Microprocessors
- Computer hardware and software
- Foundation in math, science, English and liberal-arts electives

What’s the Difference?

Engineering vs. Engineering Technology Engineering

- Designing
- More theory
- Lots of advanced math and science
- Four-year degree

Engineering Technology

- Troubleshooting/fixing
- More hands-on
- Not as much advanced math and science
- Two-year or four-year degree

Contact Info

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Student Experience

“[The instructors] show a lot of real life work experience; they are very knowledgeable. They balance lab and class time well. This program offers a solid base and preparation for a four year electrical engineering technology degree or a career in the electronics industry.”

- Thomas Strasser

“[Electrical Engineering Technology] is a great career with many possibilities. There is always a new challenge with every job you take on.”

- Mitchel Kauppila

“I like using my hands and mind. This field is very demanding of both.”

- Annemarie McAloon