



Installing the Wind Generator and Solar Array



Digital Electronics Lab

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Cape Fear
COMMUNITY COLLEGE

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ELECTRONICS ENGINEERING TECHNOLOGY



**Cape Fear
Community College**

**North Campus
Castle Hayne, NC
www.cfcc.edu**

Electronics Engineering Technology

ASSOCIATE IN APPLIED SCIENCE

Curriculum Description

Those pursuing a career in the field of Electronics Engineering Technology become involved in designing, building, installing, testing, troubleshooting, and repairing developmental and production systems. You can work in field of electronics engineering, instrumentation, tele-communications, data-communications, industrial manufacturing, power electronics, research and development, aviation, medical, industrial, automotive, marine, radio, TV, and more.

Course Work

The core of courses including electricity, electronics, telecommunications, and microprocessor systems, ensure that the technician-in-training develops the skills necessary to meet entry-level job expectations. Student's learn the fundamentals of electronics, proper use of electronic test equipment, and have a background in computer systems and programming and instrumentation.

Students gain a strong background in electronic systems and component level electronics. They understand the proper use of the oscilloscope, and fiber-optic tools like the OTDR, along with digital and analog multimeters. The latest technology in Electronics, including CPLDs (Complex Programmable Logic Devices) and FLASH memory micro-controllers are used everyday by students in the lab. We have a telephone system lab that is used to train our students for the tele-communication field. The college is studying renewable energy, and the EET program has a renewable energy lab. Students study Solar (photo-voltaic panels) and Wind Power along with Batteries, and Hydrogen Fuel Cells. To learn more visit ENERGY.CFCC.EDU.

Certification is an opportunity provided as part of the training. The exam to become a Certified Electronic Technician is administered in the second year along with a Journeyman's Certificate in Telecommunications from the ETA. The ETA (Electronics Technician Association) is an internationally accredited association and is an excellent addition to the Associate Degree Program. We also offer an EET certificate program for part-time students.

Employment Opportunities

Upon graduation, opportunities are available in all areas of electronics, including the following:

- Electronics Engineering
- Electronics Manufacturing
- Electronics Service
- Computer Service
- Industry
- Medical
- Telecommunications
- Instrumentation

Salaries

The average entry-level salary is \$36,000 per year or \$18.00 per hour.



Fuel Cell Lab

REQUIRED CLASSES

ASSOCIATES IN APPLIED SCIENCE

I. General Education Courses		Semester Credit Hours
COM 110	Intro to Communication	3
ENG 111	Expository Writing	3
	Hum/Fine Arts Elective	3
MAT 121	Algebra/Trigonometry I	3
	Social/Behavioral Science Elective	3

II Major Courses

PCI 162	Instrumentation Controls	3
PCI 261	Process Measurement Systems	3
CIS 110	Introduction to Computers	3
CSC 133	C Language Programming	3
ELC 128	Intro to PLC's	5
ELC 131	DC/AC Circuit Analysis	3
ELC 133	Advanced Circuit Analysis	4
ELN 131	Electronic Devices	4
ELN 132	Linear IC Applications	4
ELN 133	Digital Electronics	3
ELN 231	Industrial Controls	4
ELN 232	Intro to Microprocessors	4
ELN 234	Communication Systems	4
ELN 235	Data Communications	3
MAT 122	Algebra/Trigonometry II	3
PHY 131	Physics- Mechanics	4

III Electronics Engineering Technology Electives

Select 3 SHC from the following courses:

CET 111	Computer Upgrade & Repair I	3
EGR 110	Intro to Engineering Tech	2
COE 111	Co-Op Work Experience	1
PCI 262	Intro to Process Control	4

Total Credits 75/76

Contact your advisor for current information

2009-2010 SEQUENCE OF CLASSES

FALL SEMESTER I	FALL SEMESTER II
Social/Behav Sciences Elect	ELC 128
CIS 110	ELN 133
ELC 131	ELN 234
ENG 111	CSC 133
MAT 121	

SPRING SEMESTER I	SPRING SEMESTER II
PCI 162	PCI 261
ELC 133	COM 110
ELN 131	ELN 232
MAT 122	ELN 235
Humanities/Fine Arts Elect	Electronics Eng. Elect

SUMMER SEMESTER I

ELN 231
ELN 132
PHY 131

Electronics Engineering Technology
Certificate Program

Instrumentation Certification

FALL SEMESTER I	FALL I	FALL II
ELC 131	ELC 131	ELC 128
MAT 121	MAT 121	
SPRING SEMESTER I	SPRING I	SPRING II
ELC 133	PCI 162	PCI 261
ELN 131		



Student works with Fiber Optic