



New 600 Watt 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, telecommunications, datacommunications, 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. Students 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

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

CET 111	Computer Upgrade & Repair I	3
ATR 112	Introduction to Automation	3
CIS 110	Introduction to Computers	3
CSC 133	C Language Programming	3
ELC 128	Intro to PLC's	3
ELC 131	DC/AC Circuit Analysis	5
ELC 133	Advanced Circuit Analysis	3
ELN 131	Electronic Devices	4
ELN 132	Linear IC Applications	4
ELN 133	Digital Electronics	4
ELN 231	Industrial Controls	3
ELN 232	Intro to Microprocessors	4
ELN 234	Communication Systems	4
ELN 235	Data Communications	4
MAT 122	Algebra/Trigonometry II	3
PHY 131	Physics- Mechanics	4

III Electronics Engineering Technology Electives

ATR 112	Introduction to Automation	
CET 211	Computer Upgrade & Repair II	
EGR 110	Intro to Engineering Tech	
COE 111	Co-Op Work Experience	

Total Credits 72/73

Contact your advisor for current information

2012-2013 SEQUENCE OF CLASSES

Associates in Applied Science

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
CET 111	COM 110
ELC 133	ELN 232
ELN 131	ELN 235
MAT 122	Electronics Eng. Elect
Humanities/Fine Arts Elect	

SUMMER SEMESTER I

ELN 231
ELN 132
PHY 131

Electronic Engineering Technology Evening Certificate Program

FALL SEMESTER I

ELC 131
MAT 121

SPRING SEMESTER I

ELC 133
ELN 131



Student works with Fiber Optic