

## Benefits in Computer Engineering Technology

- Wireless Internet Access
- Novell Academic Silver Partner
- Work Study Experience
- Internship in the Computer Engineering Department
- Leading Research Topics including:
  - Computer Forensic
  - Grid Computing
  - Linux Development
  - Java Enterprise Programming

## Employment Opportunities

Graduates should qualify for employment opportunities in electronics technology, computer service, computer networks, server maintenance, programming, and other areas requiring a knowledge of electronic and computer systems. Graduates may also qualify for certification in electronics, computers, or networks. The average entry level starting salary range is \$19-30 per hour or \$39K-\$62K.

For more information, please contact  
one of the following instructors

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# COMPUTER ENGINEERING TECHNOLOGY

**Two-year Associate in Applied Science  
one year certificate**



**Cape Fear  
Community College  
North Campus  
Castle Hayne, NC  
www.cfcc.edu**

# Computer Engineering

ASSOCIATE IN APPLIED SCIENCE or  
CERTIFICATE PROGRAM

## Curriculum Description

The Computer Engineering Technology curriculum provides the skills required to install, service, and maintain computers, peripherals, networks, and microprocessor and computer controlled equipment. It includes training in both hardware and software, emphasizing operating systems concepts to provide a unified view of computer systems.

## Course Work

Course work includes mathematics, physics, electronics, digital circuits and programming, with emphasis on the operation, use, and interfacing of memory and devices to the CPU. Additional topics may include communications, networks, operating systems, programming languages, Internet configuration and design, and industrial applications.



Students get instruction in programming.



Students get hands on experience with network devices.

## Required Classes 2009-2010

I General Education Courses		Semester Hour Credits
COM 110	Intro to Communications	3
ENG 111	Expository Writing	3
	Humanities/Fine Arts Elective	3
MAT 121	Algebra/Trigonometry I	3
	Behavioral/Social Science Elec.	3
II Major Courses		
CET 111	Computer Upgrade/Repair I	3
CET 130	Operating System Principles	3
CET 172	Internet Technologies	3
CET 211	Computer Upgrade/Repair II	3
CET 240	Network Security	3
CET 245	Internet Servers	3
CIS 110	Introduction to Computers	3
CSC 151	Java Programming	3
CSC 251	Advanced Java	3
ELC 131	DC/AC Circuit Analysis	5
ELN 131	Semiconductor Appl	4
ELN 133	Digital Electronics	4
ELN 237	Local Area Networks	3
MAT 122	Algebra/Trigonometry II	3
PHY 131	Physics-Mechanics	4
TNE 255	Network Servers	3
Computer Engineering Electives		
CET 150	Computer Forensics I	3
CET 250	Computer Forensics II	3
COE 111	CE Co-Op Work Experience	1
COE 121	CE Co-Op Work Experience	1
COE 131	CE Co-Op Work Experience	1
TNE 245	Network Perimeter Security	3
WEB 285	Emerging Web Technologies	3

Contact your advisor for current information

## Certificate Programs Networking

The Networking Certificate program prepares individuals for the following types of entry-level positions: Computer Repair Technician, Computer Technician, Hardware/Software Installer, and Network Support Specialist. Upon completion of this certificate program the student will be prepared for and may elect to take the following certificate tests: A+ Network+, and Certified Network Administrator.

### Required Classes

CIS-110  
CET-172  
CET-111  
ELN-237  
CET-211  
TNE-255

## Web Development

The Web Development Certificate program prepares individuals for the following types of entry level positions: Web Manager, Web Page Designer, Web Site Developer, and Web Technician.

### Required Classes

CIS-110  
CET-172  
CSC-151  
CET-130  
CET-245  
CSC-251

## Security

The Computer Engineering Network Security Certificate prepares students to understand and install various types of security tools and models. This curriculum also develops operating skills needed to successfully manage and support these devices.

### Required Classes

CET-130  
CET-172  
CET-240  
ELN-237  
CET-245  
TNE-245