# COMPUTER PROGRAMMING CERTIFICATE

This pathway prepares students to use basic engineering principles and technical skills for installing, servicing, and maintaining computers, peripherals, networks, and microprocessor and computer- controlled equipment. Includes instruction in mathematics, computer electronics and programming, prototype development and testing, systems installation and testing, solid state and microminiature circuitry, peripheral equipment, and report preparation. Graduates may also qualify for certification in electronics, computers, or networks.

Career Opportunities: Graduates should qualify for employment opportunities in electronics technology, computer service, computer networks, server maintenance, programming, and other areas requiring knowledge of electronic and computer systems.

# High School Career Cluster

# High School Career Cluster One: Computer Engineering (COEN)

- Prerequisite: 1121
   Computer Engineering
   Technology I
- Concentrator: 1122
   Computer Engineering Technology II

# High School Career Cluster Two: Computer Science Principles (CSPR) Prerequisite:

- BP41 Computer Science Principles I
- Concentrator: BP42 Computer Science Principles II

# Nash Community College CCP Pathway

# Computer Programming Certificate C40160BH

## Total Hours: 15

Recommended Sequence of Courses:

#### Fall Term:

 EGR 125 Appl Software for Tech (2 Credits)

# Spring Term:

 CSC 151 JAVA Programming (3 Credits)

## Summer Term:

 CSC 251 Adv JAVA Programming (3 Credits)

#### Fall Term:

 CSC 143 Object-Oriented Prog. (3 Credits)

## Spring Term:

 CET 251 Software Eng. Principles (4 Credits)

# Nash Community College Additional Diplomas/Certificates

# Computer Engineering Technology Certificate C40160A

# Total Hours: 18

- EGR 125 Appl Software for Tech (2 Credits)
- ELN 235 Data Communication (4 Credits)
- CET 111 Computer Upgrade and Repair I (3 Credits)
- CET 211 Computer Upgrade and Repair II (3 Credits)
- ELN 237 Local Area Networks (3 Credits)
- ELN 238 Advanced LANs (3 Credits)

# Computer Engineering Technology Diploma D40160

## Total Hours: 41

- EGR 125 Appl Software for Tech (2 Credits)
- ELN 133 Digital Electronics (4 Credits)
- ELC 131 Circuit Analysis I (4 Credits)
- ELC 131A Circuit Analysis I Lab (1 Credit)
- ENG 111 Writing and Inquiry (3 Credits)
- ENG TIT Willing and inquity (3 Cledits)
- MAT 121 Algebra/Trigonometry I (3 Credits)
- CET 111 Computer Upgrade and Repair I (3 Credits)
- CSC 151 JAVA Programming (3 Credits)
- ELN 131 Analog Electronics (4 Credits)
- ELN 232 Intro to Microprocessors (4 Credits)
- ELN 235 Data Communication (4 Credits)
- CET 211 Computer Upgrade and Repair II (3 Credits)
- ELN 237 Local Area Networks (3 Credits)
- BUS 151 People Skills (3 Credits)BUS 240 Business Ethics (3 Credits)
- INT 110 International Business (3 Credits)

# Nash Community College Associate's Degree

# Computer Engineering Technology A40160

## Total Hours: 76

- COM 110 Intro to Communication -or- COM 231 Public Speaking (3 Credits)
- ENG 111 Writing and Inquiry (3 Credits)
- MAT 121 Algebra/Trigonometry I (3 Credits)
- HUM/FA Humanities/Fine Arts Elective (3 Credits)
- ELC 131 Circuit Analysis I (4 Credits)
- ELN 131 Analog Electronics I (4 Credits)
- ELN 133 Digital Electronics (4 Credits)
- CET 111 Computer Upgrade and Repair I (3 Credits)
- CET 211 Computer Upgrade and Repair (3 Credits)
- CSC 151 JAVA Programming (3 Credits)
- ELN 235 Data Communication Sys. (4 Credits)
- CET 130 Operating System Prin. (3 Credits)
- CET 251 Software Eng. Principles (4 Credits)
- CET 293 Selected Topic Seminar (3 Credits)
- CSC 143 Object-Oriented Prog. (3 Credits)
- CSC 251 Adv. JAVA Programming (3 Credits)
- EGR 125 Appl Software for Tech (2 Credits)
- ELC 131 A Circuit Analysis I Lab (1 Credit)
- ELN 232 Intro to Microprocessors (4 Credits)
- ELN 237 Local Area Networks (3 Credits)
- ELN 238 Advanced LANs (3 Credits)
- MAT 122 Algebra/Trigonometry II (3 Credits)
- CET 245 Internet Servers (3 Credits)
- ACA 122 College Transfer Success (1 Credit)





Questions? Please contact
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