BASIC ELECTRONICS

A course of study that prepares the students to apply basic engineering principles and technical skills to become technicians who design, build, install, test, troubleshoot, repair, and modify developmental and production electronic components, equipment, and systems such as industrial/computer controls, manufacturing systems, communication systems, and power electronic systems. Includes instruction in mathematics, basic electricity, solid-state fundamentals, digital concepts, and microprocessors or programmable logic controllers.

Career Opportunities: Graduates should qualify for employment as electronics engineering technician, field service technician, instrumentation technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, and production control technician.

Nash Community College CCP Pathway

Basic Electronics Certificate C40200AH

Total Hours: 15

Recommended Sequence of Courses:

Fall Term:

- EGR 125 Appl Software for Technology (2 Credits)
- ELC 131 Circuit Analysis I (4 Credits)
- ELC 131A Circuit Analysis I Lab (1 Credit)

Spring Term:

- ELN 131 Analog Electronics (4 Credits)
- ELN 133 Digital Electronics (4 Credits)

Nash Community College Additional Diploma

Electronics Engineering Technology Diploma

D40211

Total Hours: 46-48

- ENG 111 Writing and Inquiry (3 Credits)
- MAT 121 Algebra/Trigonometry I (3 Credits) -or-MAT 171 Precalculus Algebra (4 Credits)
- ELC 131 Circuit Analysis I (4 Credits)
- ELN 131 Analog Electronics I (4 Credits)
 ELN 133 Digital Electronics (4 Credits)
- ELN 132 Linear IC Applications (4 Credits)
- ELN 232 Introduction to Microprocessors (4 Credits)
- ELN 260 Prog. Logic Controllers (4 Credits)
- EGR 125 Appl. Software for Tech. (2 Credits)
- ELC 131A Circuit Analysis I Lab (1 Credit)
- ATR 280 Robotic Fundamentals (4 Credits) -or-CET 111 Computer Upgrade/Repair I (3 Credits)
- ELN 235 Data Communication Sys (4 Credits)
- ELN 236 Fiber Optics and Lasers (4 Credits)
- ELN 275 Troubleshooting (2 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

Electronics Engineering Technology A40200

Total Hours: 73-74

- COM 110 Intro. to Communication (3 Credits)
 -or- COM 231 Public Speaking (3 Credits)
- ENG 111 Writing and Inquiry (3 Credits)
- ENG 114 Prof. Research and Reporting (3 Credits)
- HUM/FA Humanities/Fine Arts Elective (3 Credits)
- MAT 120 Algebra/Trigonometry I (3 Credits)
- -or- MAT 171 Precalculus Algebra (4 Credits)
- S/BS Social/Behavioral Science Elective (3 Credits)
- ELC 131 Circuit Analysis I (4 Credits)
- ELN 131 Analog Electronics I (4 Credits)
 ELN 133 Digital Electronics (4 Credits)
- ELN 132 Analog Electronics II (4 Credits)
- ELN 232 Intro. to Microprocessors (4 Credits)
- ELN 260 Prog. Logic Controllers (4 Credits)
- ATR 280 Robotic Fundamentals (4 Credits)
- CET 111 Computer Upgrade/Repair I (3 Credits)
- CSC 151 JAVA Programming (3 Credits)
- EGR 125 Appl. Software for Tech. (2 Credits)
- ELC 131A Circuit Analysis I Lab (1 Credit)
- ELC 213 Instrumentation (4 Credits)
- ELN 235 Data Communication Sys. (4 Credits)
- ELN 236 Fiber Optics and Lasers (4 Credits)
- ELN 275 Troubleshooting (2 Credits)
- MAT 172 Precalculus Trigonometry (4 Credits)
- ACA 122 College Transfer Success (1 Credit)

Bachelor's Degree:

East Carolina University

Bachelor of Science in Industrial Technologies Transfer Program

https://cet.ecu.edu /techsystems/und ergraduate-progra ms/industrial-tech nology-transfer/





Questions? Please contact
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