Northwest State
Community College

COMPUTER SCIENCE ENGINEERING TECHNOLOGY

Associate of Applied Science
Computer Science Engineering Tech.
Associate of Applied Science

The Computer Science Engineering Technology program prepares graduates for the field of computer science with a comprehensive understanding of computer hardware and software at the machine and system level. The program combines curriculum in electronics and computer programming addressing both hardware and software aspects of computer design and applications. The design aspect places emphasis on computer structures, computer architectures, microcomputer systems, digital design, and computational applications. The applications part of the program includes a general knowledge of computer operating systems, utilization of software in engineering technologies, low- and high-level programming techniques, and the use of mathematical algorithms.

Career Outlook

With an increasing utilization of computer systems and programming, demand for technicians with a computer science background is ever increasing. Graduates of this program will have the foundational coursework leading into four-year computer science and electrical engineering programs at various universities, as well as being qualified for entry-level engineering technicians in product design, engineering support, and other technical support positions. Typical job titles with this degree would include Application Specialist, Computer Systems Specialist, Computer Maintenance Technician, Field Service Representative, Field Engineer, Installation Technician, and Systems Integrator.
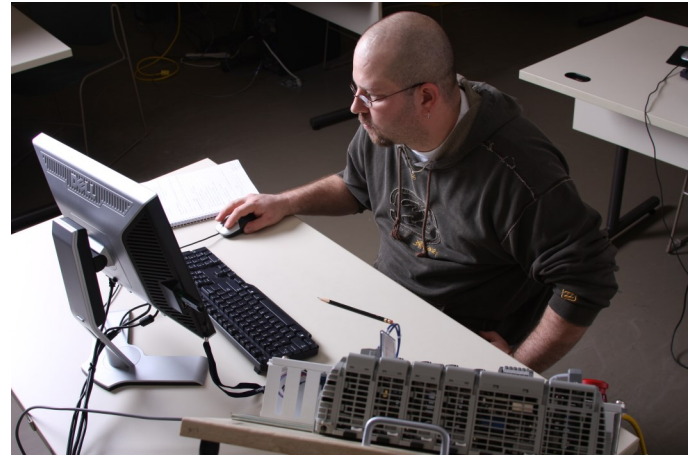
STEM and Industrial Technology Division
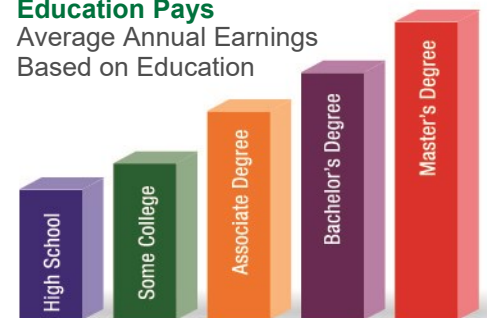

Franklin Roberts
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Questions:
NSCC Admissions Office
(419) 267-1320
admissions@NorthwestState.edu

www.NorthwestState.edu   **2023-2024**

Education Pays
Average Annual Earnings
Based on Education

High School | Some College | Associate Degree | Bachelor's Degree | Master's Degree

Based on data from the Bureau of Labor Statistics

PROGRAM SEQUENCE

First Semester		Credits
+CIT191	Computer Operations	3
+EET121	DC Circuits	3
ENG111	Composition I	3
+MET100	Introduction to Engineering Technology	2
MTH109	College Algebra	3
	Humanities Elective	3
		17

Second Semester		Credits
+EET122	AC Circuits	3
+MTH132	Discrete Structures	3
+EET107	Python Programming	3
ENG210	Technical Communications	3
MTH112	Trigonometry	3
		15

Third Semester		Credits
+CIT165	Java Programming OR	
+CIT290	Information Technology Internship	4
+EET231	Microprocessors	4
+CIT195	Networking Essentials	3
PHY251	Physics: Mechanics & Heat	4
		15

Fourth Semester		Credits
+EET221	Digital Circuits	4
PHY252	Physics: Electricity & Magnetism	4
ENG113	Speech	3
+EET282	Networking II	3
	Social/Behavioral Science Elective	3
		17

Total Program Credit Hours   **64**

+ Students must attain a minimum grade of "C" in all courses with a '+' to progress in the program and to graduate.