

Associate of Applied Science Computer Science Engineering Tech.

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



Dan Burklo, M.S.E., Ph.D.
Dean

Questions:

NSCC Admissions Office
(419) 267-1320
admissions@NorthwestState.edu

www.NorthwestState.edu

2019-2020

Education Pays

Average Annual Earnings
Based on Education



Based on data from the Bureau of Labor Statistics

NSCC is accredited by:
The Higher Learning Commission
(312) 263-0456
www.ncahigherlearningcommission.org

PROGRAM SEQUENCE

First Semester		Credits
+CIS191	Computer Operations	3
+EET121	DC Circuits	3
ENG111	Composition I	3
MET100	Introduction to Engineering Technology	2
MTH109	College Algebra	3
	Humanities Elective	3
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Second Semester		Credits
+EET122	AC Circuits	3
+EET132	Discrete Structures	3
+EET240	Engineering Programming	3
ENG210	Technical Communications	3
MTH112	Trigonometry	3
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Third Semester		Credits
+CIS165	Java Programming	4
+EET231	Microprocessors	4
+EET272	Networking I	3
PHY251	Physics: Mechanics & Heat	4
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Fourth Semester		Credits
ENG113	Speech	3
PHY252	Physics: Electricity & Magnetism	4
+EET221	Digital Electronics	4
+EET282	Networking II	3
	Social/Behavioral Science Elective	3
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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.