

**Program Description:**

The Computer, Software and Networking Technology (CSNT) Associate in Science degree program is specifically designed to provide the education and training needed for employment in the computer, software and networking industries. The program is ideal for individuals with basic math and science knowledge, and an interest in technology and its applications. Coursework includes computer and networking security, embedded programming, computer systems, networking, technical mathematics, computer systems, computer applications and languages, and telecommunications. Employability skills that are required in industry and are crucial to job placement and career success are emphasized throughout the program. Hands-on training is provided using modern laboratories, equipment and computers. The program's general education component adds the broader-based educational background valued by employers in technology fields.

**Career and Transfer Outlook:**

Graduates of the CSNT program work in computer-, software- and networking-related industries. Some examples of positions that MCC graduates have held are electronics, software, network, test and customer-service technicians. The CSNT program is not a transfer program. However, many graduates have also continued their studies toward a bachelor's degree in engineering, engineering technology, and information technology.

**Program Outcomes:**

Graduates of the Computer, Software and Networking Technology program are prepared to:

- Apply computer and telecommunications methods, procedures and principles, and use equipment and software for the purpose of installing, troubleshooting and maintaining systems;
- Communicate clearly, accurately and succinctly both verbally and in writing;
- Apply technical concepts, principles and physical laws to solve practical problems;
- Analyze and develop a plan to diagnose and solve technical problems;
- Act responsibly with integrity, self-confidence and professionalism;
- Apply critical thinking to evaluate alternative solutions in order to solve technical problems.

## COMPUTER, SOFTWARE AND NETWORKING TECHNOLOGY • Associate in Science

BEDFORD CAMPUS - DAY, STARTS FALL SEMESTER ONLY

✓	COURSE #	COURSE TITLE	CREDITS	PREREQUISITES
_____	NST 101	Principles of Electric Circuits	4	Completion of or current enrollment in TMA 095 or TMA 075, MAT 080 or placement above MAT 080
_____	NST 111	Digital Systems Fundamentals	3	Completion of or current enrollment in MAT 070 or higher placement
_____	NST 121	Computer Systems Fundamentals	3	Completion of or current enrollment in NST 111
_____	NST 165	Applied Computer Programming I	4	Completion of or current enrollment in TMA 096 or MAT 100 or placement above MAT 100
_____	NST 171	Computer Interfacing	3	NST 101, NST 121 and completion of or concurrent enrollment in NST 165
_____	NST 181	Networking I	3	Completion of or current enrollment in MAT 070 or higher placement
_____	NST 221	Embedded Computer Systems	4	NST 165, NST 171
_____	NST 231	Network Programming	3	NST 181
_____	NST 241	Digital Communications	3	NST 101, NST 111 and completion of TMA 096 with a grade of C or better
_____	NST 250	Capstone Project in Computer Technology	4	NST 165, NST 171, NST 241 or department permission
_____	NST 281	Computer Network Security	3	NST 181 or permission of instructor
_____	TMA 075	Applied Technical Math for Computers & Networking I	4	C or better in MAT 070 or eligible for MAT 080
_____	TMA 096	Applied Technical Math II	4	TMA 095 or TMA 075
_____	PHY 110	Physics for Networking Systems	3	C or better in NST 101, NST 111 and TMA 096
_____	ENG 101	English Composition I	3	C- in ENG 071 or eligible for ENG 101 and placement above or successful completion of ENG 060
_____	ENG 102	English Composition II: An Introduction to Literature	3	ENG 101
_____	ECO 140	Principles of Macroeconomics	3	ENG 060 or higher placement, eligible for ENG 101, a minimum of one year of high school algebra or completion of MAT 070 or placement into MAT 080
_____	_____	Behavioral Science Elective	3	Must satisfy multicultural intensive requirements
_____	_____	Humanities Elective	3	Must satisfy multicultural intensive requirement
			<b>63</b>	

**Helpful Hints:**

Incoming students who are eligible for Applied Technical Math 1 (TMA 075) should take TMA 075, Principles of Electric Circuits (NST 101), Digital Systems Fundamentals (NST 111) and Computer Systems Fundamentals (NST 121) in the first semester. Students who test into Algebra 1 (MAT 070) or below on the college placement test should take the math needed to qualify for Applied Technical Math 1 (TMA 075) as soon as possible, and are encouraged to enroll in Exploring Technology (ITC 100).

**Special Requirements for CSNT:** It is essential for students to work closely with their advisor for proper course sequencing. Additional coursework may be required based on college placement testing. The following courses will not satisfy any requirements for graduation: MAT 060, MAT 065, MAT 070.