

# COMPUTER ENGINEERING TECHNOLOGY

Computer Engineering Technology is a technological field requiring the application of scientific and engineering knowledge and methods, combined with technical skills, in support of computer activities. A computer engineering technologist is a person who is knowledgeable in computer hardware and software theory and design and who can apply them to a variety of industrial and consumer problems.

## PROGRAMS



### DEGREES AND CERTIFICATES

- Bachelor of Science in Computer Engineering Technology
- Internet of Things Certificate

### ABOUT THE PROGRAM

Computer Engineering (CE) encompasses the research, development, design, and operation of computers and computerized systems and their hardware and software components. Computers, controls/automation, robotics, instrumentation, and communications are just a few fields open to computer engineering technologists.

## REAL-WORLD CONNECTIONS



### SKILLS AND TALENTS

- Computer Systems Skills
- Computer Engineering Concepts
- Computer Hardware and Software
- Design and Analytical Skills
- Science and Technology Background
- Problem-Solving Skills

### CAREERS

- Computer Architect
- Network Systems Engineer
- Systems Architect
- Telecommunications Engineer
- Information Systems Manager
- Information Security Analyst

### EMPLOYERS

- 3M
- Amazon
- Chart Industries
- Consolidated Communications
- Creation Technology
- IBM

## INSPIRED ACTION



### EMPLOYMENT RATE

**100%**  
of program graduates begin their careers within one year of graduation.

Graduates: 29  
Respondents: 26  
[link.mnsu.edu/graduate-follow-up](https://link.mnsu.edu/graduate-follow-up)

### MEDIAN SALARY

**\$132,360**  
The median annual wage for Computer Hardware Engineers in May 2022.

Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, Computer Hardware Engineers, at [link.mnsu.edu/computer-engineering-salary](https://link.mnsu.edu/computer-engineering-salary)

### PROGRAM WEBSITE



[cset.mnsu.edu/ecet](https://cset.mnsu.edu/ecet)

# SAMPLE FOUR-YEAR PLAN - COMPUTER ENGINEERING TECHNOLOGY, BS

First Year (Fall)	First Year (Spring)
ENG 101 Foundations of Writing & Rhetoric (4) EE 105 Intro to Electrical and Computer Engineering & Technology (1) EET 113 DC Circuits (3) MATH 115 Precalculus Mathematics (4) EET 141 Integrated Computer Technology I (4)	EE 107 Intro to Electrical and Computer Engineering Through Software Development (3) EET 114 AC Circuits (3) MATH 121 Calculus I (4) General Education Course (3)
Second Year (Fall)	Second Year (Spring)
MATH 127 Calculus II for Engineering Technology: Integration (2) EET 143 Integrated Computer Technology III (4) PHYS 211 Principles of Physics I (4) EET 221 Electronic CAD (3) EET 222 Electronics I (4)	PHYS 212 Principles of Physics II (4) EET 223 Electronics II (4) EE 234 Microprocessor Engineering I (3) EE 235 Microprocessor Engineering Laboratory I (1) EE 341 Electronic Shop Practices (2) General Education Course (3)
Third Year (Fall)	Third Year (Spring)
CHEM 104 Introduction to Chemistry (3) MATH 180 Mathematics for Computer Science (4) EET 310 Programming Tools (4) EET 384 Microprocessors II (4) General Education Course (3)	STAT 221 Applied Probability and Statistics for Engineers (3) EE 456 Analog Communications (4) General Education Course (3) General Education Course (3)
Fourth Year (Fall)	Fourth Year (Spring)
MET 427 Quality Management Systems (3) EET 461 Industrial Automation I (4) EE470 Wireless Networking (3) EET 497 Internship (3) General Education Course (3)	EET 430 Computer Networking I (4) EET 441 Embedded Systems (4) EET 462 Industrial Automation II (4) Elective Course in Major (3)

For more information about program requirements, visit:  
[mnsu.edu/academics/academic-catalog](https://mnsu.edu/academics/academic-catalog)

## LEARN MORE

**Department of Electrical and  
Computer Engineering and Technology**  
242 Trafton Science Center N  
507-389-5747

## NOTES

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