



Computer Systems Technology

(Cyber Security/Networking)

What is Computer Systems Technology?

Computer Systems Technology covers training in networking; the design and maintenance of, and hardware associated with, computer operating systems. Students will learn techniques to investigate and resolve computer problems. Students also obtain important information to help with cyber security. They will also learn to answer clients' inquiries concerning the use of computer hardware and software. This includes solving problems related to printing, electronic mail, operating systems, trouble shooting communication issues and computer networks.

What you will learn

Students will gain knowledge and skills in:

- Technicians provide assistance and training to system users as well as administer the computer network
- Techniques to investigate and resolve computer problems, both on a client computer and across an entire network
- Troubleshoot and support corporate networks
- Networking, routing (Cisco Levels 1-8)
- Applications (Microsoft Office)
- Operating Systems (Window Server)
- Troubleshoot communications and connectivity issues
- Cyber Security training

Certifications preparing for

CCNA (Cisco Certified Network Associate)
 CCNP (Cisco Certified Network Professional)
 MCSE (Microsoft Certified Systems Engineer)
 MCP (Microsoft Certified Professional)
 CompTIA Cyber Security Analyst (CySA+)

Type of college degree

- Associate of Applied Science degree (two-year)
- Associate of Science degree (two-year) designed to transfer into four year college

Career information

Technical support staff employees work in organizations maintain an in-house MIS function or technical support department. They may also work for universities, public and private school systems, hospitals, financial institutions, retail stores, or any other organization that provides technical support to its employees. Others work for computer companies, including hardware and software firms, as well as on-line service providers. Positions may be found in various businesses across the nation, but predominately in larger metropolitan areas.

Job Outlook and Pay

Median Wage (MT)*	\$60,140 yearly \$28.91 per hour
Median Wage (US)*	\$81,100 yearly \$38.99 per hour

*Bureau of Labor Statistics, Office of Employment Projections; MT Dept. of Labor and Industry, Research and Analysis Bureau (projections through MT 2022 U.S. 2026)

**For more information visit <http://www.careerinfonet.org/Occupations>.

City College entry-level wages of graduates:
\$34,260 (2014-2017)

Computer Systems Technology

(Associate of Applied Science Degree)

Suggested Plan of Study

Computer Systems Technology AAS Degree

Required Courses	Credits
CAPP 156 MS Excel.....	3
COMX 106 Communicating in a Dynamic Workplace	3
CSCI 100 Introduction to Programming	3
CSCI 240 Databases and SQL.....	3
ITS 166 Configuring MS Windows 10	3
ITS 212 Network Operating- Server Admin.	3
ITS 217 Network Operating System-Server Admin/Apps	3
ITS 224 Introduction to Linux.....	3
ITS 226 Advanced Linux	3
ITS 245 Computer Forensics.....	3
ITS 246 Cybersecurity Operations	3
ITS 256 CCNA: Security	3
ITS 257 Introduction to Computer Virtualization	3
ITS 280 Computer Repair and Maintenance	3
ITS 283 Health Information Networking	3
ITS 299 Capstone	3
M 114 Extended Technical Mathematics	3
NTS 104 CCNA 1: Intro to Networks	4
NTS 105 CCNA 2: Routing & Switching Essentials	4
NTS 204 CCNA 3: Scaling Networks	3
WRIT 121 Intro to Technical Communication.....	3
<i>Restricted Elective (Choose from List Below)</i>	3
Total minimum credits required for certificate and degree	67

Restricted Elective Options

CSCI 116 Introduction to Python Programming	3
CSCI 211 Client Side Programming.....	3
CSCI 214 Server-Side Web Programming and Administration	3
^ITS 289 Professional Certification (<i>Recommended</i>)	1
ITS 291 Special Topics.....	3
ITS 298 Cooperative Education/Internship.....	3

Students should check the course descriptions for required prerequisites.

First Semester	Credits
COMX 106	3
CSCI 100	3
CSCI 240	3
ITS 166	3
ITS 280	3
M 114	3
Total	18
Second Semester	Credits
CAPP 156	3
ITS 212	3
ITS 224	3
NTS 104	4
WRIT 121	3
Total	16
Third Semester	Credits
ITS 217	3
ITS 226	3
ITS 246	3
NTS 105	4
Restricted Elective	3
Total	16
Fourth Semester	Credits
ITS 245	3
ITS 256	3
ITS 257	3
ITS 283	3
ITS 299	3
NTS 204	3
Total	...18
Total required	67