



# INFORMATION TECHNOLOGY

## Networking Systems



### NETWORKING SYSTEMS COURSE PATHWAY



**EXPLORATION** Principles of Information Technology (8th grade)  
Fundamentals of Computer Science



**INVESTIGATION** Computer Science I



**PREPARATION** Computer Science Applications



**APPLICATION** Practicum in Information Technology  
Career Preparation I (optional)

#### EXPANDED LEARNING OPPORTUNITIES

##### Career & Technical Student Organization

SkillsUSA  
CyberPatriot

##### Work-based Learning

Local computer or  
information security company

#### INDUSTRY BASED CERTIFICATION OPPORTUNITIES

CompTIA ITF+

#### DUAL CREDIT OPPORTUNITIES

Computer Science I  
Computer Science Applications  
Practicum in Information Technology

Discuss additional dual credit opportunities  
with your counselor

The Networking Systems program of study explores the occupations and educational opportunities associated with designing and implementing computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, and other data communications networks. This program of study may also include exploration into analyzing science, engineering, and other data processing problems to implement and improve computer systems.

## POSTSECONDARY OPPORTUNITIES

### ASSOCIATE'S DEGREE

- ◆ Computer Programming/Programmer, General
- ◆ Computer Software Engineer
- ◆ Computer Science
- ◆ Certified Software Analyst

### BACHELOR'S DEGREE

- ◆ Management Information Systems, General
- ◆ Computer Software Engineer
- ◆ Computer Science
- ◆ Information Science/Studies

### MASTER'S, DOCTORAL, & PROFESSIONAL DEGREES

- ◆ Computer Software Engineer
- ◆ Computer Science
- ◆ Information Science/Studies

## CONNECTED OCCUPATIONS

Occupation	Median Wage	Annual Openings	% Growth
Software Developer, Systems Software	\$103,334	2,985	25%
Software Developers, Applications	\$104,499	6,311	30%
Computer Programmers	\$79,893	1,454	9%

Successful completion of the Networking Systems program of study fulfills requirements of a Business and Industry endorsement or a STEM endorsement if the math and science requirements are met.

### Temple ISD Course Details

COURSE NAME	PREREQUISITES	GRADES	TISD COURSE CODE	SERVICE ID and COURSE CREDIT
Principles of Information Technology (8th grade)	None	8	V13072 <sup>+</sup>	13027200 (1 credit)
Fundamentals of Computer Science	None	9-12	V12705	03580140 (1 credit)
Computer Science I	Fundamentals of Computer Science and Algebra 1	10-12	V12710 <sup>+</sup> V12610 (DC)	03580200 (1 credit)
Computer Science Applications*	Computer Science 1, Algebra 1, and Geometry	11-12	V12712 V12612 (DC)	13037400 (2 credits)
Practicum in Information Technology**	Each of the above courses (Principles of IT optional)	12	V13074 <sup>+</sup> V13174 (DC)	13028000 (2 credit)
Career Preparation I (optional)	Computer Science Applications*	12	V12410	12701300 (2 credits)
Extended Career Preparation I (optional)	Computer Science Applications*	12	V12713	12701305 (3 credits)

\*Computer Science Applications = Practicum in STEM offered as a 1 period course

\*\*Travel and costs are associated with this course

<sup>+</sup>Minimum courses required to meet CTE Completer status

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