



CYBERSECURITY COURSE SEQUENCE



EXPLORATION

Principles of Information Technology
Fundamentals of Computer Science



INVESTIGATION

Computer Science I



PREPARATION

Computer Science Applications



APPLICATION

Practicum in Information Technology

Certification
Opportunity

CompTIA
IT Fundamentals+

INDUSTRY CERTIFICATION & HIGHER EDUCATION

Certificate/ Licenses	Associate's Degree	Bachelor's Degree	Master's/ Doctoral Degree
CompTIA A+, Network+, Security+	Computer Science		
Certified Security Architect	Computer & Information Services/General		
Certified Advanced Windows Forensic Examiner	Information Technology	Computer Networking & Telecommu- nications	Information Technology
GIAC Reverse Engineering/Malware	LAN/WAN Management	Computer Networking	Computer Analyst

CAREER OUTLOOK

Occupation	Median Wage	Project Openings	Projected Growth
Information Security Analysts	\$91,915	814	29%
Network and Computer System Administrators	\$82,597	2,814	19%
Computer System Analysts	\$87,568	5,937	29%



TISD COURSE INFORMATION

COURSE NAME	PREREQUISITES	GRADES	TISD COURSE CODE	SERVICE ID and COURSE CREDIT
Principles of Information Technology	None	8	V13072	13027200 (1 credit)
Fundamentals of Computer Science	None	9-12	V12705	103580140 (1 credit)
Computer Science I	Fundamentals of Computer Science and Algebra 1	10-12	V12710	103580200 (1 credit)
Computer Science Applications*	Computer Science 1, Algebra 1, and Geometry	11-12	V12712	13037400 (2 credits)
Practicum in Information Technology**	Each of the above courses (Principles of IT optional)	12	V13074	13028000 (2 credit)

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

**Travel and costs are associated with this course

The Cybersecurity program of study includes the occupations and educational opportunities related to planning, implementing, upgrading, or monitoring security measure for the protection of computer networks and information. This program of study may also include exploration into responding to computer security breaches and virus and administering network security measures.

WORK BASED LEARNING AND CAREER EXPLORATION/EXTENDED LEARNING

CAREER EXPLORATION	WORK BASED LEARNING
CyberPatriot	Job Shadow a computer system or information security analyst

Successful completion of the CyberSecurity program of study will fulfill requirements of the BUSINESS & INDUSTRY or STEM endorsement if the math and science requirements are met.

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