



# CYBERSECURITY

The Cybersecurity program of study includes the occupations & educational opportunities related to planning, implementing, upgrading or monitoring security measures for the protection of computer networks & information.

LEVELS	COURSES		
Level 1	<b>Foundations of Cybersecurity</b> 1853CT / 9-12		<b>Principles of Information Technology</b> 1850CT / 9-12
Level 2	<b>Computer Science I (PLTW)</b> 1050CT / 9-12 <i>Prerequisite: Algebra I</i> <b>LOTE Credit</b>	<b>AP Computer Science Principles</b> 1266CT / 9-12 <b>Weighted &amp; LOTE Credit</b>	<b>Computer Maintenance</b> 1829CA-CB / 10-12 <i>Prerequisite: Principles of IT</i> <b>+ CompTIA A+ Certification Possible</b>
Level 3	<b>AP Computer Science A - Math/LOTE</b> 1055CA-CB / 10-12 <i>Prerequisite: AP Computer Science Principles</i> <b>Weighted &amp; 1 Credit in Math &amp; 1 Credit in LOTE</b>		<b>Networking</b> 1831CA-CB / 10-12 <i>Prerequisite: Computer Maintenance</i>
Level 4	<b>Practicum in Information Technology</b> 1851CA-CB / 11-12 <i>Prerequisite: 2 courses in Information Technology OR STEM AND Selection Process</i> <b>+ Oracle Certified Database Associate Certification Possible</b>		

1 Semester Home Campus	2 Semester Home Campus	1 Semester Ben Barber	2 Semester Ben Barber
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OCCUPATION	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Information Security Analysts	\$91,915	814	29%
Network & Computer Systems Administrator	\$82,597	2,814	19%
Computer Systems Analyst	\$87,568	5,937	29%

## INDUSTRY BASED CERTIFICATIONS

### +CompTIA A+ Certification - Computer Maintenance

This certification exam measures various objectives including: mobile devices, networking technology, hardware, network troubleshooting, installing & configuring operating systems, expanded security, and software troubleshooting.

### + Oracle Certified Database Associate Certification - Practicum in Information Technology

This certification exam measures the following objectives: using basic select statements, definite table joins, defining select statements, using single-row function to customize output, using conversion function & conditional expressions, etc.

*The district will pay 100% of the cost of the certification test if students can show mastery by passing a certification practice test AND maintain an 80+ overall course grade at the time of the certification test. If students don't meet the requirements above, they must pay 100% of the cost of the certification test.*

Students must have successfully completed a level 1 or 2 course AND a level 3 or 4 to take a practicum course.

To earn a CTE endorsement, an MISD student must take 4 or more credits in the same endorsement area, with at least 2 of 4 credits within the same program of study and must include at least one Level 3 or Level 4 CTE course.