

CAREER & TECHNICAL EDUCATION

Real Skills for the Real World

Computer Science

Software Engineer & Cybersecurity

Design. Develop. Troubleshoot.

IT Exploration – 91009AO*

Semester-long online only course, 0.5 credit

Explore careers in computer science and information technology through simulations and independent projects. In this course you will develop skills related to digital media, computer hardware, operating systems, communication networks, software development, databases, and emerging technologies.

Computer Science Essentials – 95607AO*

Year-long online only course, 1.0 credit

Explore how innovations in computing impact and connect our world. In this introductory programming course you will create mobile apps, program self-driving cars, and create text-based applications using ApplInventor, Vex Coding System, Python and Cloud9. This is a year-long asynchronous online elective course.

Computer Science Principles – 95616*

Semester-long course, 1.0 credit

Expand your computer programming skills! In this course you will develop strong foundational skills used in game and app design, cybersecurity, and robotics. Skills include problem solving, logic programming, project management and the importance of computing ethics.

Computer Science A – 95626*

Semester-long course, 1.0 credit

Become an expert in JAVA and Android™ app development! Get familiar with computer science concepts and tools as you learn a subset of the Java programming language. Through small group and individual projects you will design, write, and test computer programs that solve problems or accomplish tasks.

Enroll today!

cte.mpls.k12.mn.us



For more information please contact your counselor or email: cteinfo@mpls.k12.mn.us



Cybersecurity 1 – 95637*

Semester-long course, 0.5 credit

Learn about the world of cybersecurity! In this course you will take the first step to becoming a Certified Cybersecurity Technician and learn fundamental principles associated with current-day cybersecurity issues and how to recognize and reduce and prevent attacks against enterprise networks and mission-critical infrastructure. You will also learn how to set up and configure interfaces, security zones, authentication, and policies on a Next-Generations firewall; and concepts involved in maintaining a secure network computing environment.

Cybersecurity 2 – 95638*

Semester-long course, 0.5 credit

Become a Palo Alto Networks Certified Cyber Security Technician! In this course you will continue to build your knowledge of cybersecurity and learn how to collect high-fidelity intelligence, contextual data, and design automated prevention workflows that quickly identify and respond to fast-evolving threats. Students who successfully complete this course can become a Palo Alto Networks Certified Cyber Security Technician.

*Course eligible for college credit.



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