

Networking Hardware Operations I and II

This two-semester course (0.5 credits per semester) covers general networking theory and the basics of routing, switching and advanced technologies within the context of environments ranging from home and small-office networks to more complex enterprise models. The curriculum helps students prepare for the industry-standard Cisco Certified Network Associate (CCNA) certification exams. T.C. Williams offers the first two courses of CCNA Discovery to prepare students for the Cisco CCENT certification for entry network technicians, an optional first step toward earning the CCNA certification. CCNA Discovery is delivered as an independent curriculum course of study. The curriculum consists of two courses delivered sequentially. Each course includes a troubleshooting chapter, and advanced technologies (voice, video, wireless and security) are introduced throughout the curriculum. Students may take the NOCTI Computer Networking exams.

High School Credits: 1

School Level: High School

Grade: 11, 12

Length: full year

Prerequisites:

[Cybersecurity Fundamentals](#) or [Electronics Systems I](#).

Program: CTE: Trade and Industrial Education