

Middle School Information Technology Education Courses

		Curriculum Code/Hours		
Course Code	Course Title	VT	V3	VM
Information Support and Services (N0)				
145005	Information Technology	60-280	60	30-120
145010	Web Design	120-280	60	30-120
145025	Computer Hardware	120-280	60	30-120
145035	Networking	120-280	60	30-120
145060	Programming	120-280	60	30-120
Interactive Media (N1)				
145005	Information technology	60-280	60	30-120
145010	Web Design	120-280	60	30-120
145060	Programming	120-280	60	30-120
Network Systems (N2)				
145005	Information Technology	60-280	60	30-120
145010	Web Design	120-280	60	30-120
145025	Computer Hardware	120-280	60	30-120
145035	Networking	120-280	60	30-120
145060	Programming	120-280	60	30-120
Programming and Software Development (N3)				
145005	Information technology	60-280	60	30-120
145010	Web Design	120-280	60	30-120
145060	Programming	120-280	60	30-120

Curriculum Code	Grades	CT Funded	Assessment	Counts toward Concentrator
VT	7-12	Yes	Required	Yes
V3	7-12	Yes	Not required	No
VM	7-9	Yes	Not required	No

- Career-Technical Middle School Courses require schools to complete a CTE-26 and program of study*.
- Students enrolled in Career-Technical Middle School Courses (VT, VM) are eligible for participation in Career-technical Student Organizations (CTSO).
- Granting High School credit for Career-Technical Middle School Course high school courses is a local school district decision.
- VM Courses do not count towards four course minimum.

*If you have a 7-12 grade building with a current CTE26 on file, no additional CTE26 in required, unless you add a new program to that building IRN.

Information Technology

Subject Code: 145005

This first course in the IT career field is designed to provide students with a working knowledge of computer concepts and essential skills necessary for work and communication in today's society. Students will learn safety, security, and ethical issues in computing and social networking. Students will also learn about input/output systems, computer hardware and operating systems, and office applications.

Web Design

Subject Code: 145010

Students will learn the dynamics of the Web environment while pursuing an in-depth study of both Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS). Web based protocols such as FTP, TCP/IP, and HTTP will be addressed. Students will create a website with tag text elements, special characters, lines, graphics, hypertext links, and graphical tables.

Computer Hardware

Subject Code: 145025

Students will learn to install, repair, and troubleshoot computer hardware systems. They will perform preventative maintenance practices and learn techniques for maintaining computer hardware security. Communication skills and professionalism in troubleshooting situations will be emphasized.

Networking

Subject Code: 145035

Students will install, configure, and troubleshoot network hardware and peripherals. Students will learn networking by exploring the OSI model, network topologies, and cabling. Students will design simple networks, know how to select physical devices, and be able to configure the equipment. Knowledge and skills relating to the operation and usage of network protocols will be developed.

Programming

Subject Code: 145060

In this course, students will learn the basics of building simple interactive applications. Students will learn the basic units of logic: sequence, selection, and loop. Students will apply algorithmic solutions to problem-domain scenarios. Students will gain experience in using commercial and open source languages, programs, and applications.