

## Introduction to Information Technology

Career Cluster	Information Technology
Course Code	10003
Prerequisite(s)	Recommended that a student has taken from the Foundation Courses Computer Applications.
Credit	.5
Program of Study and	Intro to Information Technology is recommended as a prerequisite for two career pathways in the
Sequence	Information Technology: 1) Programming; 2) Networking and Hardware.
Student Organization	SkillsUSA
Coordinating Work-Based	Tours, Guest Speakers, Job Shadowing
Learning	
Industry Certifications	None
Dual Credit or Dual	TBD
Enrollment	
Teacher Certification	Information Technology Cluster Endorsement; K-12 Educational Technology; K-12 Classroom
	Technology
Resources	

## **Course Description:**

Introduction to Information Technology prepares students with knowledge and background of technology careers, programming, and hardware. This course explores new and emerging technologies for both professional and personal use.

## **Program of Study Application**

Introduction to Information Technology is recommended as a prerequisite for two pathways: Programming and Networking & Hardware.

Course: Introduction to Information Technology

## **Course Standards**

INDICATOR # IT 1. Understand the need and impact of technology.			
Webb Level	Sub-Indicator	Integrated Content	
Level 1: Recall	IT 1.1 Define the relationship between electronic devices and computers.		
Level 1: Recall	IT 1.2 Describe the functional areas in which computers assist people.		
Level 1: Recall	IT 1.3 Describe how technology is impacting community.		
Level 1: Recall	IT 1.4 List physical and mental health dangers associated with computer use.		
INDICATOR #IT 2. Unders	stand computer hardware required to meet specific need Sub-Indicator	eds.  Integrated Content	
Level 1: Recall	IT 2.1 Understand how computer information is represented.		
Level 1: Recall	IT 2.2 Identify hardware components and their relationship to computer usage.		
Level 2: Skill/Concept	IT 2.3 Understand different types of memory and storage.		
Level 1: Recall	IT 2.4 Identify input and output devices to meet the needs of users.		
Level 2: Skill/Concept	IT 2.5 Understand the decision-making process involved in purchasing computer systems.		

INDICATOR #IT 3. Unders	stand software solutions for personal and professional	use.
Webb Level	Sub-Indicator	Integrated Content
Level 2: Skill/Concept	IT 3.1 Explain how software is created, distributed, installed, and maintained.	
Level 1: Recall	IT 3.2 Describe the functions of system software and operating systems.	
Level 2: Skill/Concept	IT 3.3 Describe different types and purposes of productivity software.	
INDICATOR #IT 4. Unders	stand technology used for the Internet.  Sub-Indicator	Integrated Content
Webb Level	Sub-Malcutor	integratea Content
Level 1: Recall	IT 4.1 Describe how the Internet developed.	
Level 1: Recall	IT 4.2 Explain how hardware, protocols, and software work together to create the Internet.	
Level 2: Skill/Concept	IT 4.3 Explain the underlying structures and technologies used to support the Internet.	
INDICATOR #IT 5. Unders	stand computer network and telecommunications tech	nnologies.
Webb Level	Sub-Indicator	Integrated Content

Level 1: Recall	IT 5.1 Understand the fundamentals of data communications.	
Level 1: Recall	IT 5.2 List the types of media, devices, and software needed for networking services.	
Level 1: Recall	IT 5.3 List and describe the popular forms of wireless technologies.	
INDICATOR #IT 6. Unders	stand the needs and uses for digital media.	
Webb Level	Sub-Indicator	Integrated Content
Level 1: Recall	IT 6.1 Understand the uses of digital media.	
Level 2: Skill/Concept	IT 6.2 Discuss how interactive media is used to educate and entertain.	
INDICATOR #IT 7. Unders	stand computer crime and information security.	
Webb Level	Sub-Indicator	Integrated Content
Level 1: Recall	IT 7.1 Describe methods of keeping electronic devices secure.	
Level 2: Skill/Concept	IT 7.2 Discuss the threats and defenses for networks.	
Level 3: Strategic Thinking	IT 7.3 Describe the threats posed by hackers, software, scams and the methods of defending against them.	

Webb Level	Sub-Indicator	Integrated Content
Level 2: Skill/Concept	IT 8.1 Describe the negative and positive impacts of social media.	
Level 2: Skill/Concept	IT 8.2 Explain the ways in which technology is used to invade personal privacy.	
Level 1: Recall	IT 8.3 Identify ethical issues related to digital technology.	
INDICATOR #IT 9. Explor	e careers in information technology.	
Webb Level	Sub-Indicator	Integrated Content
Level 1: Recall	IT 9.1 Identify skills, interests, and abilities related to information technology.	
Level 2: Skill/Concept	IT 9.2 Compare personal interest survey results with information technology occupations.	
Level 3: Strategic Thinking	IT 9.3 Research labor market information for information technology.	
Level 2: Skill/Concept	IT 9.4 Demonstrate necessary job skills needed for Information and Technology industries.	
INDICATOR #IT 10. Demo	onstrate knowledge of the software development proce	ess.

Level 4: Extended	IT 10.1 Apply tools for developing software	
Thinking	applications.	
Level 3: Strategic	IT 10.2 Demonstrate knowledge of programming	
Thinking	structures.	