

# Career and Technical Education Overview

Career and Technical Education courses provide experiences applying computer technology through business and industry applications. Technical Education courses provide hands-on experiences centered on using many different types of computer programs and activities that are accomplished simultaneously. The overarching goal is to make curriculum interdisciplinary providing students the practical applications associated in the workplace and also includes materials from other disciplines applying literacy-based learning.

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## Principles of Information Technology

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The **Principles of Information Technology** (formerly **Computer Applications**) curriculum has four strands: foundations, information acquisition, work in solving problems, and communication. Students will demonstrate knowledge and appropriate use of operating systems, software applications, and communication and networking components. Curriculum covers operating systems, digital graphics, 3-D modeling, animation, GIS, and web design. Students will use foundation and enrichment curricula to animate and render products into multimedia products creating and modifying solutions to business and industry problems.

**Honors Weighted—8526.HT**  
**Articulated**  
**Grades 9-12**

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*National Board Certified Career and Technical Education*  
Website:  
<http://www.jbhs.org/staff/reedw/billhome.htm>

### Computer Works

- Computer Systems
- Systems
- Input/Out Devices
- Peripherals
- History

### Desktop Creation

- Screen background
- Applications shortcuts
- System Information
- Network Application

### Photoshop/Project Dog Waffle

- Design simple graphics
- Animation of simple graphics
- Expanded animation graphics skills designing an animation of their favorite Nursery Rhyme.
- Apply digital photographs in animation graphics for use in gaming software.

### On Top of the World

- Coordinate Plotting
- Coordinate Graphing
- Data Manipulation

### World Fact Book

- Data Mining

### Power Point

- Sketch of Motherboard
- RJ-45 Connector
- Trip Around the World Presentation

### HTML

- Data Manipulation
- Learn Coding
- Creation of simple Web Page

### Dreamweaver/Mediator 8 Pro

- Data Manipulation
- Web Design
- Animation Graphics
- PowerPoint Integration
- Digital Photo Integration

### Rhinoceros

- Make models from 3D shapes
- 3D Shaping/Modeling
- Coordinate Graphing

### Access

- Data Mining
- Data Sorting
- Data Analysis

### Word

- Resume Creation
- Calendar Creation
- Brochures
  - 3D Architect Cabin/House
  - Trip

### Publisher

- Contact Sheet
- Brochure to advertise trip

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# Principles of Information Technology

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Technology Education

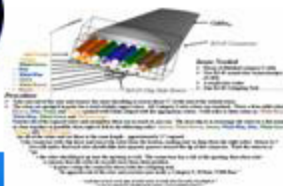
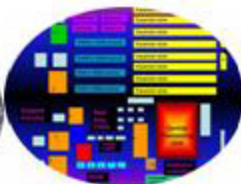
Desktop Construction



Computer Components



Web site—[www.jbhs.org/staff/Reedw/billhome.htm](http://www.jbhs.org/staff/Reedw/billhome.htm)



Coordinate Plotting  
Data Manipulation  
Topography



Sales & Marketing



& Terminology

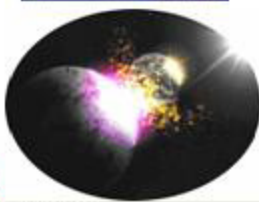


Introduction to MS Office



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Animation Graphics w/Drawn Characters



Animation Graphics using Digital Graphics



Digital Imaging



3D Shaping/Modeling  
Coordinate Graphing & Design



HTML Web Design



Personal Web Page Construction  
MS PowerPoint & Digital Photo Integration



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