

### Today's Objectives

- How is a computer different from other machines?
- 4 functions of a computer
- Units of Storage
- Primary vs Secondary Storage
- SCC Network
- Windows Settings
- Register into MyITLab

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### How the Computer Differs from Other Machines

- Designed to be a **Multi-purpose** Tool
  - **Versatile** – can do many different tasks well
- Fundamental Design:
  - **Software** - the **instructions (programs)** that tell the computer how to do something
  - Software can easily and quickly be changed

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### Four Functions of a Computer

- **Input**
  - keyboard, mouse, graphics tablet, scanner, etc.
- **Output**
  - monitor, printer
- **Processing**
  - Takes place on the CPU chip
  - CPU – Central Processing Unit refers to the micro-processor on the mother board
- **Storage**
  - **Primary**
  - **Secondary**

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### Units of Storage

- Fundamental unit of storage is a **byte**
  - Think of a byte as one letter
  - A byte contains **8 bits**
  - A **bit** is the smallest unit of storage
  - A bit is notated as either a **1** or a **0 (binary)**
- **All Programs and Data are stored and processed in binary**
- **KiloByte (KB)** is approximately 1 thousand bytes
- **MegaByte (MB or Meg)** is approximately 1 million bytes
- **GigaByte (GB or Gig)** is approximately 1 billion bytes
- **TeraByte (TB)** is approximately 1 trillion bytes

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### Primary vs Secondary Storage

Primary	Secondary
<ul style="list-style-type: none"> <li>• Most important example is: <b>RAM (Random Access Memory)</b></li> <li>• <b>Temporary</b> - requires constant electricity to hold data and programs</li> <li>• <b>Smaller</b> – generally 2 to 8 GB (Gigabytes)</li> <li>• <b>Faster</b> than Secondary</li> <li>• Where programs and data reside <b>while they are being processed by CPU</b></li> </ul>	<ul style="list-style-type: none"> <li>• Most important example is a computer's <b>Hard Drive</b></li> <li>• More <b>permanent</b> – does not require electricity to hold data and programs</li> <li>• <b>Larger</b>– generally 300 GB to over a TB (Terabyte)</li> <li>• <b>Slower</b> than primary</li> <li>• Contains <b>All Programs</b> and Data that have been installed and <b>all data</b> files that have been saved or copied to the computer</li> </ul>

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### MW 12:00 CLASS

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**MW 1:30 CLASS**

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**CRSABMV-73281**

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