


Ed 362 * Instructional Technology

Chapter (8) Lecture
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Computer Security Risk

- Event or action by User (Accident)
- Event or action by Non-User (Intended)
- HW, SW, Data, Storage, Processing
- Computer Crime is an Illegal Act with PC!

What is a Virus?

- Boot Sector Virus 
- File Virus (Word, Excel, Access, etc...)
- Macro Virus (Embedded Coded Event)
- Worm (Copies itself filling or choking!)
- Melissa & Trojan Horse (Hidden) Virus

Detect & Removal



- Antivirus: detect, disinfect, protect Pg 489
- Antivirus SW monitors: Boot, OS, Programs
- Remove and Repair infected software
- Anti Virus: Norton, McAfee and Trend PC
- Many Virus Hoaxes are prolific on Internet!

Unauthorized PC Use

- Access or Use without Permission
- Cracker/Hacker attempts to Steal or Corrupt
- Unauthorized access is considered a Crime!
- Preventable by establishing Access Controls
- Page 294 has helpful suggestions!

PC & SW Theft



- ID badges, cards, keys, Pins prevent Pg 492
- Biometrics scans finger or eye or hand
- Common Sense & Constant Awareness
- SW & HW Firewalls prevent intrusions
- Hardware & Software Theft (Piracy) ✓
- SW usage: Single, Lab Pack, License Pg 496

HW or SW Failure

- System Failure: Server, Glitch, Surge, etc...
- Access failure: Username & Password
- PC malfunction: Back Up HW & SW
- Storms cause immediate damage (PC Off)
- Surge Protectors or Fuses: Over or Under
- Ultimate Protection is Back Up HW & SW

Copyright Guidelines

- Pg 500-501 : Ethics & Safe Guards
- Copyright Laws of 1976: Pg 503
- Original Author/Creator exclusive rights
- Fair Use Guidelines for Educators Pg 504-6
- Internet Ethics & Objectionable Materials
- Racist or Obscene discussed Page 506

Government Actions

- DOT Kids: .kids is safe site
- Children Internet Protection Act (CIPA)
- requires Filter Software for institutions.
- Parental & Educational Controls
- Acceptable Use Policies (AUP)
- Infringement on Civil Rights

Health Issues

- Repetitive Strain Injury (RSI)
- Muscle, Nerves, Tendons, Ligaments, Joints
- Tendonitis and Carpal Tunnel Syndrome
- Ergonomics: Applied Science for No RSI!
- Periodic Rest & Relax & Exercise...

Emerging Technologies

- Home Instruction & Distance Learning
- Assistive Technologies
- Federal Accessibility Initiative
- Web Enhanced Digital Materials
- Digital Media Revolution (Hear, See, Do)
- Wireless Environments Pgs: 535 - 544

PP = HO

Conclusion
