Objectives

• Understand the importance of acceptable use policies, passwords, and constant vigilance while online.
• Learn just how unsecure your computer is while connected to the Internet.
• Discover what one can do to protect your computer and personal data while online and offline.
• Understand copyright and software piracy laws.
• Be aware of privacy issues and learn what one needs to do to protect personal privacy.
• Separate fact from fiction.

Acceptable Use Policies

• What is the University of West Alabama’s acceptable use policy?
  - Chat room
  - Software
  - Internet and guidelines
Passwords and Security

• What is the primary reason for passwords?
• What makes a good password?
  – At least 6-8 characters (more is always better)
  – Upper AND lowercase
  – At least one numeric character
  – At least one non-alphabetic/numeric character
  – Example: Bm00r3.leY
• Change them (it) at least every 3 months (if possible)

Social Engineering?

• Hackers cannot “crack” passwords, they have to guess it or get it by other means. (offline)
  – Shoulder surfing
  – Socializing
  – Social Engineering
  – Trusted Advisor

How secure is my connection?

• University: very
• Home: most likely not at all
• Firewalls
  – A firewall is a system or group of systems that enforces an access control policy between two networks. The firewall can be thought of as a pair of mechanisms: one which exists to block traffic, and the other which exists to permit traffic.
  – How they work...
Viruses, Trojans, and Worms

- 1984: a "worm" shut down 10% of the entire Internet
- What are these "things"?
  - Virus: an EXECUTABLE program that attaches itself to a host program and whose purpose is to replicate and do some form of harm to the host computer.
  - Trojan: an EXECUTABLE program that is designed to record some form of information and return that data to its owner.
  - Worm: similar to a virus
- What can I do to defend myself?
  - Antivirus programs
  - Software updates
  - Awareness!
  - Firewall programs (especially for computers that are left unattended for long periods of time.)
  - Hoaxes

Email

- Is email secure?
  - ONLY if encrypted.
  - Normally, email is sent as straight text files
  - Do you want it on the front page of your newspaper?
  - Awareness!!!!
- Can "browsing" hurt me?
  - Maybe!
  - Awareness!!!
  - Browser security
    - cookies

Identity Theft

- What is identity theft?
  - Resources available
- AWARENESS!!!!
- Protect your SSN and other "important" data
Shopping Online
- Some risk
- SSL: httpS://
- The lock is locked!
- Reputable businesses

Copyright and Piracy
- What is copyright?
  - Copyright Office
- Copyright and the Internet
- Am I a pirate?
  - Copying music to software
  - Know your rights and the law!
  - Licenses

Awareness
- News articles (web)
- Update software
- Update virus definitions
- “Too good to be true?” There are no "good deals!"
Tomorrow

- Everything I wanted to know about email!