

# Ethics & Privacy — CIS 211 — Duke Hutchings

Relationship between ethics and privacy in IT

IT and IS Usage Policies

Office: 314 Duke Bldg

## Office Hours

3:30 — 5:00 Mondays and Wednesdays

8:00 — 9:30 Tuesdays

1:30 — 3:00 Thursdays

appointments always welcome

## Acknowledgement

The content of the following slides is based on  
Chapter 5 and Business Plug-in B7 of

*Business Driven Technology* (3rd edition)

by P. Baltzan, A. Phillips, & S. Haag

ISBN: 9780073376745

Web site: <http://www.mhhe.com/bdt3e/>

# Security & Privacy

## Privacy

freedom from unauthorized monitoring or intrusion

freedom from unauthorized use of personal information

## Security

protecting systems (data & info.) from unauthorized access

protecting systems from data loss

**Security procedures help to ensure individuals' privacy**

## Security & Privacy Example

Why do people place locks on their doors?

Your home is a private place

The lock is the security measure

Why do email accounts have passwords?

Your messages are private (sort of... more later)

A password system is a security measure

# The murky waters of privacy

## Which of these are private?

Dorm room

Apartment

House under mortgage

House that you own

Front porch

Files on a personal computer

Files on Elon network storage

# IT Privacy & Security

(G2) Distinguish CSO and CPO

**CSO — Chief Security Officer — typically a technical professional**  
more on security on Thursday

**CPO — Chief Privacy Officer — typically an attorney or lawyer**  
analyzes **ethical** and **legal** use of data, information, and systems

# Legal & Ethical

## Ethics

(Baltzan) standards that guide our behavior toward other people  
(m-w.com) discipline dealing with ... moral duty and obligation

## Discussion

describe some legal but possibly unethical behaviors  
describe some possibly ethical but illegal behaviors

## Small-group discussion

(G3) Consider the dilemma posed on p.49 (a direct order to destroy information). List at least two other options that the employee could take in addressing the issue.

# U.S. Laws Relating to Information Privacy

## FERPA — Family Educational Rights and Privacy Act

<http://www.ed.gov/policy/gen/guid/fpco/ferpa/>

<http://www.ed.gov/policy/gen/guid/fpco/brochures/postsec.html>

# U.S. Laws Relating to Information Privacy

## Sarbanes-Oxley Act (2002)

[http://csrc.nist.gov/groups/SNS/rbac/sarbanes\\_oxley.html](http://csrc.nist.gov/groups/SNS/rbac/sarbanes_oxley.html)

From NIST: “For information technology systems, regulators may need to know who used a system, when they logged in and out, what accesses or modifications were made to what files, and what authorizations were in effect.”

**Notice relationship between security and privacy again**

# IT Privacy & Security

(G2) Distinguish CSO and CPO

**CSO — Chief Security Officer — typically a technical professional**  
more on security on Thursday

**CPO — Chief Privacy Officer — typically an attorney or lawyer**  
analyzes **ethical** and **legal** use of data, information, and systems

# IT Roles in Organizations

(G1) Distinguish CIO and CTO

**CIO — Chief Information Officer — “hybrid” professional**

understand strategic vision and capabilities of technology

broadly responsible for the *effectiveness* of information systems

**CTO — Chief Technology Officer — technical professional**

maintain throughput, availability, capability, etc. of systems

broadly responsible for the *efficiency* of information systems

# Usage policies

Coordinated effort chiefly among CIO, CTO, CSO, & CPO

## General Properties

Explain how information systems & components should be used

Users should be informed of the policies in place

Users should declare intent to follow policies (why?)

Increases the strength of the policies (awareness)

Opportunity for discussion and revision of policy (buy-in)

Weakest area of understanding of org. employees

# Ethical Use Policy

## Umbrella Policy

Often examples used to portray “organizational ethics”

Should include sample sanctions (“bad” vs. “terrible” behavior)

Typically discusses intellectual property (IP), copyright, and piracy

Often coincides with non-IT policies (such as NDAs)

Elon does not have an “Ethical Use” policy... why?

## Small-group discussion

A consulting firm requires that all consultants use software that records their interactions with applications and files in order to help automate the client billing process.

What are some of the security, privacy, and ethical implications of the existence of this tool?

## Small-group discussion

Suppose that I create a repository of all CIS 211 homework assignments from all times that I have taught the class.

Is it ethical for me to use software that compares new submissions against submissions from previous classes and notifies me when there is suspicion that a new submission is a copy of an old submission?

## Information Privacy Policy

Outlines actions org. will and will not take with personal data

Often a variety of approaches evident (ethics shift between orgs.)

Textbook example of differences: Visa vs. Equifax

Often include section concerning security

Violations are often unintentional or due to broken security

Does this policy typically cover customers' or employees' information?

# Acceptable Use Policy

## Outlines usage of systems

within organizations (similar to ethical use policy)  
between organizations

Often a contract is used in place of a policy

Elon does not use a contract (why?)

## Small-group discussion

Read the Elon Acceptable Use Policy

<http://www.elon.edu/technology/about-policies.html>

To what activities is section 3.4 referring?

What are the penalties or sanctions for failing to follow the policy?

# Spam (or Anti-Spam) Policy

## Two possible targets

Informing users of spam prevention techniques

Helping to prevent users from accidentally sending spam

What is spam?

What are the risks and rewards of using spam prevention software?

## More Next Time...

Employee Monitoring

Email

Data Security

Plus a discussion of various security terms and stories

# Assignments — CIS 211 — Duke Hutchings

**Homework Exercise #8**

**Guided Reading Exercise #11**

Office: 314 Duke Bldg

## Office Hours

3:30 — 5:00 Mondays and Wednesdays

8:00 — 9:30 Tuesdays

1:30 — 3:00 Thursdays

appointments always welcome