



# Ethics in Information Technology

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# Objective

Cover the *legal*, *ethical*, and *societal implications* of *information technology*

## Similar Topics

- Management Information Systems
- Principles of Information Technology
- Managerial Perspective of Information Technology
- Computer Security
- E-Commerce

# Course Organization

1. Lectures (Ethics in IT)
2. Projects
3. Exams (midterm and final) and Grading

# Course Contents

## 1. Overview of Ethics

- Introduction to ethics
- Ethics in business, and the relevance of discussing ethics in IT
- Philosophical approaches to ethical decision making
- A model for ethical decision making



# Course Contents

## 2. Ethics for IT Workers and IT Users

- Importance of ethics in the business relationships of IT professionals
- Certification and licensing
- IT professional codes of ethics
- Ethical issues faced by IT users
  - Software piracy
  - Inappropriate use of computing resource
  - Inappropriate sharing of information
- Support the ethical practices of IT users

# Course Contents

## 3. Computer and Internet Crime

- Ethical decisions when dealing with security issues
- Classification of computer crimes and their perpetrators
- Implement trustworthy computing to manage security vulnerabilities
- Respond to specific security incidents to fix problems quickly and improve ongoing security measures



# Course Contents

## 4. Privacy



- How the use of IT affects privacy rights
- Legislation that have addressed privacy rights
- Gathering the personal information using IT, to obtain or keep customers (or to monitor employees)
- The concerns of privacy advocates:
  - How much information can be gathered
  - With whom it can be shared
  - How the information is gathered in the first place
  - How it is used
- Concerns to the information-gathering practices of law enforcement and government



# Course Contents

## 5. Freedom of Expression

- Growing use of Internet and issues related to the freedom of expression
- Examining the types of speech that are protected by constitutions
- Problems when anonymity can be used by adversary (e.g., unsuitable data for children and unnecessary business)



# Course Contents

## 6. Intellectual Property

- What is intellectual property?
- Varying degrees of ownership protection:
  - Copyright
  - Patent
  - Trade secret laws
- Plagiarism
- Reverse Engineering of Software
- Open Source Code
- Competitive intelligence gathering
- Cybersquatting



# Course Contents

## 7. Software Development

- Process of the software development and the importance of software quality
- Issues that software manufacturers must consider when deciding “how good is good enough?” (e.g., software is safety-critical)
  - Product liability
  - Risk analysis
  - Quality assurance testing and processes and standards



# Course Contents

## 8. Impact of IT on Productivity and Quality of Life

- The effect that IT has had on the standard of living and worker productivity in developed countries
- The digital divide and programs that are designed to close that gap
- IT's impact on health care and healthcare costs

# Course Contents

## 9. Social Networking

- How people use social networks
- Identifies common business uses of social networks
- Examines many of the ethical issues associated with the use of social networks
- Virtual life communities and the ethical issues associated with virtual worlds



# Course Contents

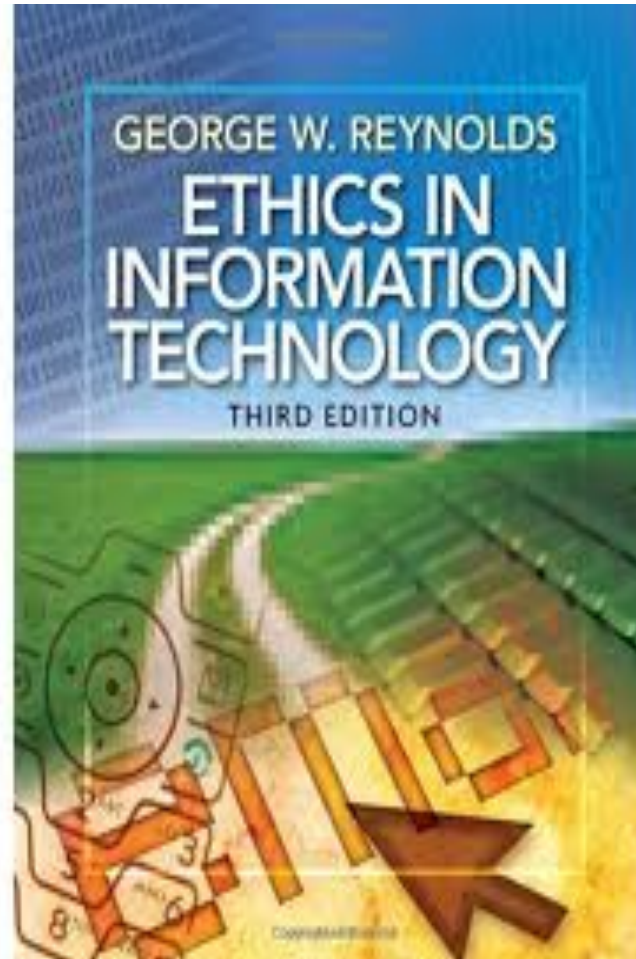
## 10. Ethics in IT Organizations



- Ethical issues facing IT organizations
- Risks, protections, and ethical decisions related to whistle-blowing, and presents a process for safely and effectively handling a whistle-blowing situation.
- Green computing and related ethical issues
- Ethical issues in the areas of worker safety and fairness, environmental responsibility, and business efficiency (by code of conduct)

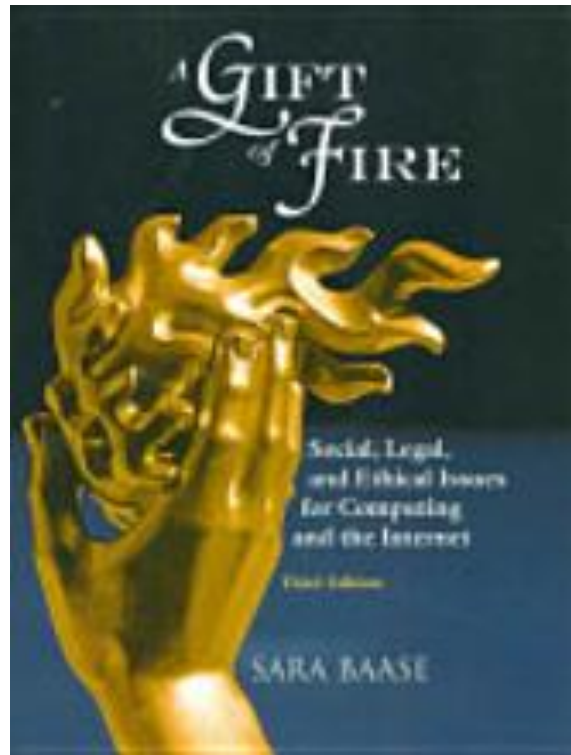
# Textbook

## Ethics in Information Technology 3<sup>rd</sup> Edition, George W. Reynolds





# Reference



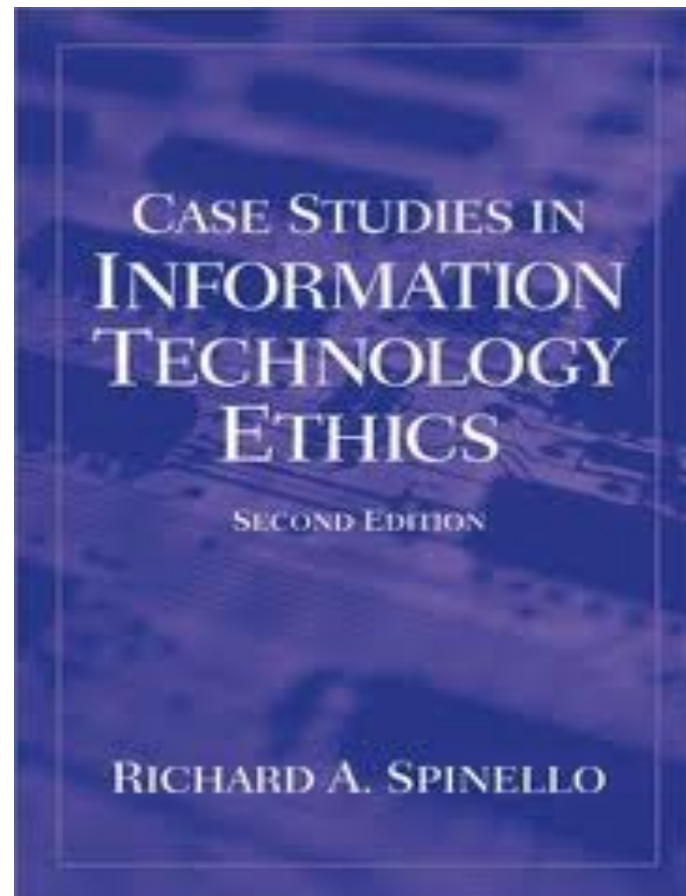
**A Gift of Fire:  
Social, Legal, and Ethical Issues for Computing and the Internet**

**Sara Baase**



# **Case Studies in Information Technology Ethics**

**2nd Edition, Richard A. Spinello**




# Projects

- Analyze/Presentation/Report
- Discuss ethical dilemmas
- Make your judgments
- Put yourself in the shoes of decision makers
- You will see some examples in lectures and news

# Exam and Grading

1. Project Reports (Case Study) ~ 40%
  - ☐ You should start looking for a subject from now
  - ☐ Esfand 15<sup>th</sup>, 1392: Upload the list of your preferences (up to 5 cases)
  - ☐ Esfand 17<sup>th</sup>, Proposal Discussion during the lecture: Definition of your project
  - ☐ Report due by Ordibehesht, 31<sup>st</sup>
2. Written midterm and final exam ~ 60%
3. Selected Presentations ~ Up to 10%

# Reference for Project

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