

Spring 2018 – Midterm Review

# CS 1151 Computers and Ethics

# Midterm

- Tuesday, March 27, 2018
- Closed book and notes
- Chapter 1-6 from Ethics for the Information Age
- Information from Reading Review texts, In-class Lectures, the textbook, and Guest Lecturers

# Chapter 2 – Introduction to Ethics

- Definitions
  - Society, Ethics, Morality, Rights (Positive and Negative)
- Ethical Theories
  - Case for / against
  - Relativism – Subjective and Cultural
  - Divine Command
  - Ethical Egoism
  - Kantianism – Categorical Imperative, Duty
  - Utilitarianism – Act and Rule; Principle of Utility
  - Social Contract Theory – Negative, Positive, and Limited Rights
  - Virtue Ethics – Intellectual and Moral Virtues
  - Relationship between laws and morality (ex. Nuremberg war trials)
  - Teleological Theories
  - Deontological Ethics

# Chapter 3 – Networked Communications

- Cyberspace Regulation
  - Lessig Model – Laws, Social Norms, Market Pressures, Architecture
  - Difficulties
  - Motivations
  - Mill's Principle of Harm
- Internet Corporation of Assigned Names and Numbers (ICANN)
- Spam
  - Origin of name
  - Definition challenges
  - Controversies Surrounding Spam – Shifts Costs from Advertiser
  - Assorted Costs of spam
  - CAN-SPAM Act

# Chapter 3 – Networked Communications

- Freedom of Expression
  - FCC Regulations
  - Child Internet Protection Act
  - Child Online Protection Act
  - First Amendment Protections
  - Communications Decency Act (CDA)
  - Legal Guidelines for Obscene Material
- Free Speech Regulations
- Controversial Speech in Cyberspace
- Net Neutrality – Pros and Cons
- John Stuart Mill – “On Liberty”
  - Ch. 1, Paragraphs 8&9
  - Ch. 2, Paragraphs 1-10
  - Harm Principle
- Social Media and Polarization
  - Echo Chamber Effect
  - Online Shaming
  - Coding Bias

# Chapter 4 – Intellectual Property

- Intellectual Property (IP)
- IP Protection
  - Patents
  - Copyright
  - Trademark / Service Mark
  - Trade Secret
- Copyright Law
- Software
- Digital Rights Management Technology
- Digital Rights Copyright Act (DMCA)
- Fair Use – Four-Factor Determination
- John Locke – *The Second Treatise of Government*
- Peer-to-Peer Networks

# Chapter 5 - Privacy

- Privacy
  - Definition
  - Harms / Benefits
  - Origins
  - Types / Views
  - Value of Privacy
- History
- Impact of Technology on Privacy
  - Exacerbation of privacy concerns
- Information Disclosure
  - Sources
- Data Mining
- Data matching / merging
- HIPAA / FERPA
- Cookies
- RFID