ICS4U – Presentation on Technologies/Emerging Technologies in Society

Introduction
The introduction of advanced technology has greatly made life easier for many people. With the major advances from the past two decades, we have seen the rise of personal computers, the Internet, smartphones and tablets. As technology became an essential part of everyday life, we often take our technology for granted. We often forget how the technologies that we are reliant on affects our physical/mental health, our interactions with others and the impact it has on our environment.

The Assignment

What's Needed
Choose two related topics on the following page, research about them and prepare a 10 minute presentation based on the topic you have chosen.

Each presentation must give an overview of two topics (found on the following page), and examine the legal, ethical, social, and environmental impact (where possible) it has. A short video (about a minute long) pertaining to each topic should also be included and discussed in the presentation.

Topics are to be chosen on a first-come-first-serve basis. Upon choosing the topics, each student must explain their plan of action with Mr. Kwok for approval before proceeding with the project.

Due Date & Submission
- Due: TBA
- Presentation slides must be submitted to Mr. Zuberi prior to the presentation (should include references).

The Topics

- Software Piracy
- Airline Security
- Net neutrality
- Distributed Computing (Folding@Home, SETI)
- Computers in Developing Countries
- Electronic Voting
- Web 2.0 & Social Media (Facebook, Wikipedia, YouTube, Twitter)
- Computer Hacking
- Identity Theft

- Spam
- Internet Censorship
- Medical databases
- Camera surveillance & facial recognition
- Biometrics & DNA scanning
- Police databases
- Signals Intelligence (Project Echelon, NSA leaks)
- E-Waste Recycling & Disposal
- Electronic Anonymity (Proxies, Onion Router)

- Computers in Manufacturing
- Computers in Science
- Computers in Health
- Data Encryption
- Cloud Computing

Criteria

Category	Level 1	Level 2	Level 3	Level 4
K/U A thorough understanding of the topics at a detailed level (i.e., legal, ethical, environmental, social) is demonstrated (i.e., visible evidence of preparation). The content presented is properly researched and sourced according to accepted standards (i.e., MLA, APA).	Limited	Some	Considerable	Thorough
T/I Speculations are coherently formulated with regards to the future abilities and impacts of the technology explored within the topic. The work of at at least two prominent experts in the field of the topic have been analyzed and explained in the presentation. Information in the presentation is presented in a thorough and logical manner.	Limited	Some	Considerable	Thorough
A The application of legal, ethical, social and environmental factors, is thoroughly discussed for each topic.	Limited	Some	Considerable	Thorough
C The presentation is 10 minutes in length, and professionally made. During the presentation, the student presents content (it is not read off the PowerPoint slides).	Limited	Some	Considerable	Thorough