

IS 376: INFORMATION TECHNOLOGY & SOCIETY

Exam #1 Review

Exam Date & Time: Tuesday, September 23, 2014, 11:00 AM – 12:15 PM

Professor White Portion – 90 Points

Format:

Ten 1-point short-answer questions (multiple-choice, true-false, matching)

Two 10-point essay/discussion question (10 points = 5 minutes = 3-4 sentences)

Three 20-point essay/discussion questions (20 points = 10 minutes = 6-8 sentences)

Topics:

The Uncanny Valley (10 points)

Article: "Leaving the Uncanny Valley Behind"

Course Notes: 8/19

The Uncanny, Robot/Film/Game Examples, Photorealism, Child Psychology

Virtual Reality (10 points)

Article: "Virtual Reality's Moment"

Course Notes: 8/21

Virtual Environments, Digital 3D, Vergence/Accommodation, Simulator Sickness, Inner Ear Balance, VR Latency, Oculus Rift, Google Cardboard

Civilian Drones (10 points)

Articles: "Open Source Drones for Fun and Profit" and "Open Season on Drones?"

Course Notes: 9/2

Drone Anatomy, Military Drones, Agricultural Drones, Public Safety Drones, Law Enforcement Drones, Drone Power, Surveillance Drones, Drone Safety & Privacy Issues

Automated Automobiles (20 points)

Articles: "The Rise of the Crash-Proof Car" and "Robot, You Can Drive My Car"

Course Notes: 9/4

Satellite Navigation, 360° Sensing, V2V, V2I, Google Car, Volvo SARTRE, Magnetic Roads, Driver Inattention, Automotive Network Hacking, Driver Irresponsibility

Indoor GPS (20 points)

Article: "You Are Here"

Course Notes: 9/16

GPS Interference, Indoor Positioning Systems, First Responder Positioning, RFID, Apple's iBeacon, Direct Sequence Spread Spectrum, Frequency Hopping, Ultra-Wideband, 1G-2G-3G-4G-5G

Wearable Computers (20 points)

Article: "Beyond Words"

Course Notes: 9/18

Fitness Trackers, Smart Watches, Google Glass, Smart Contact Lenses, Haptic Underwear, Brain-Computer Interaction, Bionic Skin, Gesture-Recognizing Ring, Wheelchair-Driving Tongue Piercing, Gesture-Based Tools

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Exam Date & Time: Tuesday, September 23, 2014, 11:00 AM – 12:15 PM

Professor Kapatamoyo Portion – 60 Points

The exam is based on Chapters 1-5 of J.L. Harrington's textbook, assigned articles, and the PowerPoint slides.

You must know the following:

- Issues and themes surrounding computers
- Origin of computer errors.
- HAVA / Direct Recording Electronic Voting
- The Privacy Act of 1974
- Luddites
- Social movements
- Social Movement Theory
- Hacktivism
- Civic participation
- Cyber Activism
- Technology determinism
- Surveillance studies, technologies and privacy.