

Information and Communication Technologies Concepts

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Schedule

COM 330

COM 330- Fall 2012 Schedule

Tuesdays and Thursdays 1.30-2.45pm

August 21 **Introduction**

August 23 **Basics of Telecommunication**

- Measurements of the digital world
- New Traffic
- ICT Trends
- Analog/Digital

August 28 **Basics of telecommunications**

- Standards
- Characters of Networks
- **(Homework #1 due)**

August 30 **Basics of telecommunications**

- Standards

September 04 **Transmission Media**

- Copper, fiber and wireless

September 06 **Transmission Media**

- Broadband comparison

September 11 Group selection and meetings

September 13 **Internet**

- History and development

September 18 **Internet**

- TCP/IP and OSI
- Routing and addressing
- **(Homework #2 due)**

September 20 **Internet**

- TCP/IP and OSI

September 25 **World Wide Web**

- Web 2.0

October 02 **Peer-to-peer networks**

- File sharing

October 04 **Network Security**

- Viruses and other malware
- Botnets
- Encryption
- Mobile Security

October 09 **Mid-term review**

- **(Homework #3 due)**

October 11 **TBD**

October 16 **Mid-term examination**

October 18 **Mobile phones**

- History
- 3G, 4G and beyond
- Network and device convergence

October 23 **Mobile phones**

October 30 **Wireless Area Networks**

- Wi-Fi, WiMax, Bluetooth, W-USB, etc.

November 01 **Wide Area Networks and Group Meetings**

November 06 **Election day**

November 08 **Virtual Worlds**

November 13 **Virtual Worlds**

November 15 **Future of the Internet**

November 20 **Selected Topic**

November 27 **Big Data/ Cloud Computing**

November 29 Student Presentations (TBA)

December 5 Small Group Presentations

December 7 Small Group Presentations