Elec6861: Higher Layer Telecommunication Protocols

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Associate Professor and Canada Research Chair
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General information

URL:
http://users.encs.concordia.ca/~glitho/F17_ELEC6861.htm

Logistics:
- Instructor: Roch H. Glitho
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Office hours: Thursday: 3 pm – 5 pm (or by appointment)
Note: You may also ask questions by email
General information

Scope

- Part II: Background information
  - Layered protocol architectures
  - Cross layered protocol architectures

- Part II: Selected application layer protocol architectures
  - Support Infrastructure for application layer: Domain Name System (DNS) and Peer-to-Peer (P2P) Overlays
    - Multimedia networking
    - World Wide Web (WWW)
    - Electronic Mail (E-Mail)
General information

Scope

- **Part III: Transport layer protocols**
  - TCP/UDP Basics and Socket Programming
  - Wireless Transmission Control Protocol (TCP)
  - An overview of the other transport layer protocols (e.g. Data Congestion Control Protocol – DCCP, Stream Control Transmission Protocol – SCTP, Real Time Transport Protocol – RTP)
General information on the course

Evaluation scheme:

Quiz #1: 30 % (Scheduled for week #7 – October 16)

• Quiz #2: 30 % (Scheduled for week #13 – November 27)

• Semester long project: 40% (Report and demos scheduled for Week #14 – December 11)
On The Semester Long Project

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Semester Long Project

Very good programming skills are required
Semester Long Project

1. The project will be done in teams of 2. You have the responsibility of finding your teammate.
   - Teams of 1 might be exceptionally accepted (i.e. you might still be able to work alone on your project).
   - To be discussed with me

2. Every team should select either the standard project or a personalized project.

3. If a team selects the personalized project, the team should submit a one page proposal by September 30.
Semester Long Project

- The standard project will be on-line next week

- Validation (e.g. prototyping, simulation) is mandatory for all projects, i.e. surveys/literature review projects will not be accepted

- All projects should be closely related to higher layer telecommunication protocols
The End