

Telecommunications and Networks - II

Final Project

You are required to complete a Final Project as part of the Course Grade. The Project should consist of 3 main parts: A written report, an oral presentation to class, and a demonstration in lab following the presentation. You will need to research your project and demo above & beyond the scope of material presented in class and provide bibliographical credit to your sources. The oral presentation would be best done in PowerPoint, although any form of a presentation would be acceptable. A laptop and projector are available for the presentation. The demonstration should/can use any parts of the lab equipment, and the equipment can be arranged/configured to fit your needs. Outside equipment is also useful if the lab does not have it, check with the Instructor to help locate specialize equipment. **Emphasize the technical aspects and IOS examples of the project in your presentation; don't overload it with unnecessary graphics, etc.** (The presentations will take place in the lab, allowing you to flow seamlessly into your Demo, or even jump between demo portions within your presentation.)

Below are some general topics for projects. Your project can be within one of these categories, or one that you propose. You will need to write a short (1 page) project proposal that specifies your project, some details about it, materials required, a hypothesis, and expected outcomes.

Advanced Switching (VTP, (R)STP)
IPv6
Firewalls/NATs
Security (IPsec)
VPNs/Tunnels
Application switching
Network Access Control (NAC)

Multimedia/QOS and/or Multicast Routing
Advanced Network Management
Advanced Routing (HSRP, access-lists,
accounting/monitoring)
IP Telephony
Advanced Wireless Networking
iSCSI/SAN

The project schedule is as follows:

Oct 26 – Proposal Submitted and Demo Hardware requirements finalized
Nov 16 – Progress Report Due (2-3 pages)
Dec 7 – In Class Presentations and Demos begin (day 1)
Dec 14 – Day 2 of Presentations and Demos (estimated Final Exam Day)

So from the proposal submission, you have about a 7-week schedule to complete your projects outside of normal class times. (Of course you can start your project/proposal earlier if you choose) You should expect to fill a 45 minute period with your presentation and demonstration.

Class participation and attendance, when you're not presenting, will be a major portion of your final project grade. You are expected to attend each Presentation and ask meaningful questions during the other groups' demo and presentation.

Final Draft of all written reports will be due the last day of presentations.