

IS310 – Hardware & Network Infrastructure

Syllabus

The class syllabus can be found [here](#)

Textbooks

[Computer Science: An Overview, 12th Edition](#)

[Network+ Guide to Networks, 6th Edition](#) – (Will be re-used in NCS315)

Class Schedule – (*tentative*)

Lectures:

MWF 9:20am – 10:30am

Video recordings of class lectures will be posted for students enrolled in the online section of this class.

Week	Monday	Wednesday	Friday
1:	Introduction To Computer Science	Algorithms	Algorithms Activity
2:	NO CLASS – Labor Day	Data Storage	Group Exercises – Problems
3:	Data Storage	Data Storage	Data Storage
4:	Data Manipulation	Data Manipulation	Group Exercises – Problems
5:	Computer Security Discussion	DerbyCon 2014	DerbyCon 2014

6:	Operating Systems	Operating Systems	Group Activity – Dining Philosophers
7:	Theory of Computation	Group Exercises – Problems	Midterm Review
8:	NO CLASS – Mid Semester Break	Midterm Review	Midterm Exam
9:	Introduction to Networking	Introduction to Networking (cont.)	Introduction to Networking (cont.)
10:	Network Standards & The OSI Model	Network Standards & The OSI Model	Network Standards & The OSI Model
11:	Signaling & Network Media	Signaling & Network Media	Group Activity – Wiring
12:	TCP/IP Protocols	TCP/IP Protocols	Introduction to Wireshark/TCPDump
13:	Subnetting	Subnetting	Group Exercises – Worksheet
14:	More Subnetting Practice	NO CLASS – Thanksgiving	NO CLASS – Thanksgiving
15:	Making sure you still remember Subnetting!	Switching & Routing	Final Review
16:	Final Exam Week		

Activating a Computer Science Account

All students are encouraged to setup a Computer Science account in order to utilize department resources relevant to this class. If you do not already have a CS account, visit a CS lab (Kunsela c012, c014, c109, b118) and follow the on screen instructions. If you have any questions, stop by Kunsela c107 and ask for assistance or contact the instructor.

If you need help accessing computer science department resources from home, check out [this](#) guide.

Unix Commands

A list of common UNIX commands are summarized [here](#). The first page contains most of the commands we will use for the class.

Homework:

All homework assignments will be posted and graded on Angel.

Exams

There will be a Midterm and Final exam for this class. Remote students will need to either come to campus to take the exams or arrange to take the exams under the supervision of an approved proctor.

Plagiarism & Cheating

Plagiarism and cheating are not tolerated in any of my courses. If you are caught performing any form of academic misconduct in this class appropriate action will be taken and you will be removed from the course as well as receive an 'F' grade on your transcript.

Links

- [Kurose & Ross WireShark Labs](#)
- [Angel](#)
- [Lecture Video Archive](#)
- [Computer Science Department Home Page](#)
- [DerbyCon 2013 Videos](#)