

CS 312

Internet Concepts

First Day Administritivia

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1

Internet Concepts

First Things First...

- ◆ Weigle
 - » pronounced “Why-gull”
- ◆ Course website
 - » syllabus
 - ❖ you are responsible for knowing all policies in the syllabus
 - » announcements, clarifications, FAQs posted
 - ❖ check website before emailing me a question
 - » lecture notes and assignments will be posted on the schedule page before class
 - ❖ read lecture notes *before* class
 - ❖ bring lecture notes to class and take additional notes
 - ◆ *save a tree - print double-sided!*

2

Internet Concepts

First Things First...

- ◆ Blackboard
 - » posting grades
 - » sending email to the class
 - ❖ so, check your ODU email account
- ◆ Email
 - » check your ODU email every day!
 - ❖ or forward it to some account you do check every day
 - » sign up for mailing list
 - ❖ <http://list.odu.edu/mailman/listinfo/cs312-mcw>
- ◆ Unix Computer Account
 - » you must have a CS department Unix account
 - » see me *today* if you don't have one

3

Internet Concepts

So, what things will we learn?

- ◆ How does the Internet work?
 - » What are the protocols used to access web pages, send and retrieve email, transfer files?
 - » How does information traverse the Internet to get from client to server and back again?
 - » What causes delay and loss in the Internet and how does that affect Internet applications?
- ◆ How is Internet content produced?
 - » What are wikis and blogs?
 - » How does Internet search work?
- ◆ How can I create Internet content?
 - » How can I use HTML, CSS, JavaScript, PHP, etc. to build webpages?

4

Internet Concepts

How Does This Course Fit With Others?

- ◆ Preparation for
 - » CS 418 – Web Programming
 - » CS 455 – Intro to Networking

- ◆ Must have a 'C' or better in CS 312 to take CS 418 or CS 419 (Internet Databases)

5

General Course Outline

- ◆ Broad overview of Internet applications – *1 week*

- ◆ Introduction to Internet networking concepts – *2 weeks*
 - » hosts, routers, protocols, delay, loss

- ◆ Introduction to popular Internet protocols – *2 weeks*
 - » HTTP (web), Email, DNS, Security

- ◆ Creating Internet content – *rest of semester*
 - » HTML, CSS, JavaScript, XML, PHP

6

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Prerequisites

- ◆ CS 252 – Introduction to Unix for Programmers
- ◆ You should be comfortable with the UNIX file system and basic UNIX commands
 - » Examples:

```
% chmod 755 public_html
```

```
% tar xzvf some_software.tar.gz
```
- ◆ You should be comfortable with Java and comfortable learning new languages

7

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Textbook

- ◆ *CS 312 Internet Concepts*
 - » Special edition textbook
 - » Three chapters of *Computer Networking: A Top-Down Approach* by Kurose and Ross
 - » Several chapters from *Web Development and Design Foundations with XHTML* by Felke-Morris.
 - » Note: last year's version only contains two chapters from Kurose and Ross (and no index)
- ◆ Many of our references will also be found online.

8

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Honor Code

- ◆ All assignments, unless explicitly specified, are to be completed on your own
- ◆ ODU Honor Council <http://orgs.odu.edu/hc/>
 - » cheating, plagiarism, unauthorized collaboration
 - » *all students are responsible for knowing the rules*
- ◆ Evidence of cheating, plagiarism, or unauthorized collaboration will result in a grade of 0 for the assignment/exam and will be submitted to the CS department for further review

9

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Honor Code

- ◆ No sharing of code is allowed. This includes discussion about the design of a project solution.
- ◆ Tips to avoid cheating (even inadvertently)
 - » Don't start at the last minute
 - » Don't sit next to each other in the lab and talk about the assignment while you're working on it
 - » Ask the instructor if you're stuck
 - ❖ which means that you can't start at the last minute...
 - » Remember the late policy (to be discussed later)
 - ❖ I'd rather you turn in something late than cheat

10

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Grading

- ◆ Project Assignments (~8) 35%
- ◆ Homework Assignments (~3) 20%
- ◆ Mid-Term Exam 20%
- ◆ Final Exam 20%
- ◆ Participation / Quizzes 5%
 - » some quizzes may be unannounced

11

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Assignments

- ◆ Written homework (anything where a hard copy is submitted) is due at the *start of class* on the due date
 - » Anything handed in after I start lecturing is considered late
 - ❖ Don't be late for class!
- ◆ Electronically submitted projects are due *before midnight* on the due date
 - » Unexcused absences on a project due date will count against your participation grade
 - ❖ Don't skip class to finish your assignment!
- ◆ Penalties:
 - » 0-24 hours late: -5%
 - » 25-48 hours late: -10%
 - » over 48 hours late: not accepted, grade = 0

12

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Where to go for help?

- ◆ Ask questions in class!
- ◆ Attend office hours
 - » M 2-3pm, TR 11am-12pm, or by appointment (send me an email)
 - » E&CS 3214
- ◆ Send questions via e-mail, but...
 - » Think about what you are asking before you ask!
 - » Know the difference between an “office hour question” and an “e-mail question”
 - » Don’t depend on an immediate answer
 - » Include the phrase “CS 312:” in your subject line
- ◆ E-mail v. Office Hours: Your *primary* avenue for resolving questions is office hours

13

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How to do well in this course

- ◆ Attend class regularly
 - » Ask questions!
 - » *Exercise your understanding of course material on a daily basis*
- ◆ Read over lecture notes *before* class
 - » Take more notes *during* class
- ◆ Study the homework and in-class “thought” problems
 - » Don’t just “do” the homework
- ◆ Take (and *study* your) notes!
 - » Beware the “But I understand this” syndrome

14

How To Do Well

Last Things

- ◆ Coding on Unix machines
 - » easiest to use XWin (displays Unix windows on your PC) and an editor like emacs
- ◆ Note the “Useful Links” listed on the course webpage
 - » especially Unix, emacs tutorials
 - » references for course material will be posted here throughout the semester
 - » don’t ask me questions that you can find the answers to yourself
 - ❖ don't ask me to be "Google" for you
- ◆ Get started early

15

CS 312

Introductions

◆ About Me

- » I’m from Louisiana
 - ❖ so, I’m a *huge* Saints, LSU, and college football fan
- » I got my PhD from UNC
 - ❖ I’m a pretty big Tarheel fan, too
- » My research area is networking



◆ Your Turn!

- » Name
- » Major / Year
- » Hometown
- » Something interesting about yourself

16