

First Day Admin

Dr. Michele Weigle

<http://www.cs.odu.edu/~mweigle/CS418-S14/>

Outline

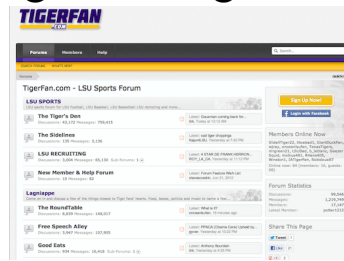
- ▶ Course Overview
- ▶ Important Info
- ▶ Expectations
- ▶ Grading
- ▶ Class Policies
- ▶ Introductions

What We'll Cover



- ▶ LAMP architecture
- ▶ PHP
- ▶ Web architecture
- ▶ MySQL
- ▶ Website usability issues

- ▶ Working towards building a message board
 - ▶ user functions
 - ▶ validating input
 - ▶ handling errors
 - ▶ cookies
 - ▶ file upload



<http://www.tigerfan.com/>

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What We Won't Cover

- ▶ HTML
- ▶ CSS
- ▶ JavaScript

Though, you'll need to know/learn these things to complete your projects.

(There are lots of resources on the web, plus my CS 312 notes – <http://www.cs.odu.edu/~mweigle/CS312-F11> and <http://www.cs.odu.edu/~mweigle/cs312/>)

Emphasis in this class is on back-end functions (PHP, MySQL), but your pages should still be pretty.

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Schedule

- ▶ **Class Meetings**
 - ▶ 15 Weeks (Jan 14 – Apr 29)
 - ▶ Spring Break – Mar 10-14
- ▶ **No Exams!**
- ▶ **Final Project Presentations and Demos**
 - ▶ during final exam time
 - ▶ Thurs, May 1, 8:30-11:30am

Course Website

- ▶ <http://www.cs.odu.edu/~mweigle/CS418-S14>
- ▶ **Syllabus**
 - ▶ you are responsible for knowing all policies in the syllabus
- ▶ **Announcements, clarifications, FAQs posted**
 - ▶ check website before emailing me a question
- ▶ **Readings**
 - ▶ listed under the day they are expected to be completed
- ▶ **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!

Important Info

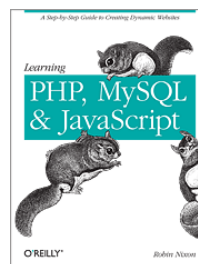
- ▶ Blackboard
 - ▶ posting grades
- ▶ Email
 - ▶ check your email every day!
 - ▶ sign up for mailing list (with email address that you'll check)
 - ▶ <http://list.odu.edu/mailman/listinfo/cs418-mcw>
- ▶ Unix Account
 - ▶ you must have a CS department Unix account
 - ▶ <https://sysweb.cs.odu.edu/online/index.php?action=create>
- ▶ Development
 - ▶ All development will be done on a shared Linux machine – weiglevm.cs.odu.edu
 - ▶ Accessible only from on-campus
 - ▶ No "magic laptops"!

Textbook



*Beginning PHP5, Apache,
and MySQL Web
Development,*
Naramore et al.
~\$30

Required



*PHP, MySQL, &
JavaScript, Nixon*
~\$25

Free (on campus):
[http://proquest.safaribooksonline.com/
book/databases/mysql/9780596803605](http://proquest.safaribooksonline.com/book/databases/mysql/9780596803605)

Optional

Expectations

- ▶ **Course Prerequisites**
 - ▶ CS 312 – Internet Concepts
 - ▶ CS 330 – OOP and Design
- ▶ **I assume you know:**
 - ▶ Unix file system commands
 - ▶ how to program in some (imperative) language
 - ▶ basic Internet/WWW concepts
 - ▶ basic HTML, CSS
 - ▶ basic relational database concepts
- ▶ **You should be comfortable learning new languages**

Expectations

- ▶ **This is a programming class!**
 - ▶ I assume you know how to program
 - ▶ your grade will be determined solely on your program's performance on 4 different checkpoints through the semester
- ▶ **Code examples are linked on class schedule**
 - ▶ I expect you to download these to your account and experiment with the code so that you understand exactly what it's doing

Groups

- ▶ You will work in teams of 1 or 2
 - ▶ grad + undergrad teams are possible
- ▶ Pick teams wisely
 - ▶ teams will exist by mutual consent only
 - ▶ at any time, teams can split up, but no new teams will be formed after the first assignment is due
 - ▶ ex-team members will have access to their shared code base

Group Code Management

- ▶ I strongly encourage you to use a project management system like git or subversion (svn)
- ▶ Using svn, you can host your project at Google Code
 - ▶ <http://code.google.com/p/support/wiki/GettingStarted>
 - ▶ svn - <http://subversion.apache.org/>
- ▶ Using git, you can host your project at GitHub or on an ODU server
 - ▶ <https://github.com/>

How Does This Class Fit With Others?

- ▶ This class will cover breadth, not depth
- ▶ If you want to learn more about:
 - ▶ System administration
 - ▶ CS 454/554 Network Management
 - ▶ HTTP
 - ▶ CS 495 Web Server Design - *offered this summer!*
 - ▶ Databases
 - ▶ CS 450/550 Database Concepts
 - ▶ CS 419/519 Internet Databases
 - ▶ Java
 - ▶ CS 695 Java & XML

Who Should NOT Take This Class?

- ▶ Students not able to/not willing to learn how to code
 - ▶ and learn much of the coding on your own
- ▶ Students not willing to work in groups
- ▶ Students not willing to work on and solve complex problems
 - ▶ I'm not going to show you how to code all parts of your projects -- you'll have to figure some things out on your own

Grading

- ▶ 4 programs, 25 points each
 - ▶ 15 points - functional requirements
 - ▶ 3 points - brief project writeup
 - ▶ 3 points - website usability
 - ▶ 2 points - website aesthetics
 - ▶ 2 points - midway status report

Class Policies

- ▶ Academic Integrity
- ▶ Attendance
- ▶ Other Policies
- ▶ Seeking Help

Academic Integrity

- ▶ Any evidence of cheating or plagiarism will result in a 0 grade for the assignment, and the incident will be submitted to the department for further review
 - ▶ guilty finding could result in notation on your transcript
- ▶ What is plagiarism in a programming class based on group work?
 - ▶ turning in another student's (or group's) work
 - ▶ using a code snippet from another group
 - ▶ copying code from a source without proper acknowledgement
 - ▶ using a code example without citing its source

Attendance

- ▶ Arrive on time to class
 - ▶ your grade will be affected if you are consistently tardy
- ▶ Attendance is mandatory on status report and demo days
- ▶ If you are absent, first check the course webpage for missed notes and/or assignments
 - ▶ don't come ask me, "Did I miss anything important?"
 - ▶ the answer is "Yes!"

Policies

- ▶ Assignments are due (and will be demo'ed) in class on the due date
 - ▶ 3 points (out of 25 total) for each 24 hour period late
 - ▶ weekends count
- ▶ Turn off cell phones before coming to class
- ▶ Make-up work is only given with a written medical or university excuse
- ▶ No individual extra credit work is given

Seeking Help

- ▶ Course website is your first reference
- ▶ Come to office hours
 - ▶ MW, 9:30-11am in E&CS 3214
 - ▶ if you can't make office hours, send me an email to setup another time
- ▶ Send email
 - ▶ but only for short, clarifying questions

Other Notes

- ▶ **Coding on Unix machines**
 - ▶ XWin (displays Unix windows on your PC) and an editor like emacs or gedit
 - ▶ PC-based text editor (like Notepad++) and save via your Z: drive
 - ▶ double-check permissions on Unix side
- ▶ **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**

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Introductions

▶ About Me

- ▶ I'm from Louisiana
- ▶ I got my PhD from UNC
- ▶ My research areas are web science, infovis, and networking
- ▶ I'm the Graduate Program Director
- ▶ My husband also has a PhD in CS, and we have two boys, ages 2 and 5



▶ Your Turn!

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