

INTM 4100 – Programming for Web Communication 2

Term

Spring2010 – 16 week course

Course Description

The first half of this course will focus on advanced XHTML and CSS development. The goal of this portion of the class is to produce a complete bullet-proof set of XHTML / CSS website templates. Topics will include development workflows, best practices, browser testing, optimization, trouble-shooting, and continued education.

The second half of the course provides a comprehensive introduction to PHP and build upon the XHTML/CSS templates developed in the first part of the course. This section will review the language and standard open-source development tools with the goal of providing a student an end-to-end understanding of techniques used to build a wide range of dynamic websites. Topics will span creation of flat (non-database) PHP-based websites and thereafter introduce the use of a MySQL database for dynamic sites, PHP-based Content Management Systems, and Frameworks.

Prerequisites

INTM3100

Learning Outcomes

CSS Portion of Course

- 1) Students will learn more advanced client-side web programming by completing a complex web site template project using HTML and CSS.
- 2) Students will learn what it takes to be well-rounded client-side programmers.
- 3) Students will be able to expand upon this knowledge to tackle nearly any html website project.

PHP Portion of Course

- 1) Students will be able to understand the basic elements of Web Programming using PHP.
- 2) Students will gain an understanding of how PHP fits into the market, what they need to know to be effective PHP developers, and where to go to get help.

Assessment of Learning Outcomes

- 1) CSS and PHP skills will be assessed via the resulting web sites developed with these technologies and two exams.
- 2) Through the execution of these projects the instructor will assess the well-roundedness and resourcefulness of the student.

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Summary of Assignments and Grade Calculation

CSS Project 1 = 30%
PHP Project 2 = 30%
Exams = 30%
Class Participation = 10%

Weekly Plan

Class 1

CSS Fonts and Text Formatting

Class 2

CSS Colors and Backgrounds

Class 3

CSS Borders, Margins and Padding

Class 4

CSS Links

Class 5

CSS Lists

Class 6

CSS Positioning and Visibility

Class 7

CSS Browser Compatibility issues

Class 8

CSS EXAM

Class 9

Basics of PHP: variables, printing to the screen

Class 10

Basics of PHP: math functions and string manipulation

Class 11

Using PHPmyAdmin to create and manage databases

Class 12

PHP: Control functions, arrays and building your own functions

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Class 13

PHP: Includes, the php_info() file,

Class 14

PHP: Gathering Data Using Forms, using SQL commands to add/remove/select data in database tables.

Class 15

PHP and databases, continued...

Class 16

PHP Exam