CSCI A340 An Introduction to Web Programming

Introduction to programming Web documents, including HTML, JavaScript and PHP. Creation of simple Web site, including a home page with dynamic elements, using both client-side and server-side techniques.

Spring 2006 schedule: MW 2:30-3:45PM, NS#164.

Prerequisite: A201 or C101.

Instructor: Robert Batzinger, rbatzing@iusb.edu
Office: NS160C

Textbooks: Online at **http://www.iusb.edu/~libg/ref/**

Grading system:

- About 6 Worksheets 5 points each
- About 3 Quizzes at 10 points each
- 7 Programming tasks: 10 points each
- Website project: 50 points
- Final exam 50 points

Guidelines for assignments:

- The assignments will be posted on the course web page.
- The assignments are due at midnight of the due date.
- The programming assignments are turned in by oncourse dropbox. The written assignments can be turned by dropbox or on paper.
- No homework accepted after 2 weeks from the due date. A homework turned in 1 week late loses 25% of the points. A homework turned in 2 weeks late loses 50% of the points.

Programming environment:

- For the first half of the course: Student M: Drive. (Linux Server)
- PHP5 services: to be announced later
- For home use: WAMP or LAMP installation are suitable

HTML 4 for the World Wide Web, Fourth Edition: Visual QuickStart Guide
by Elizabeth Castro Peachpit Press © 2000

JavaScript for the World Wide Web, Third Edition: Visual QuickStart Guide by Tom Negrino and Dori Smith Peachpit Press © 1999

PHP 5/MySQL Programming for the Absolute Beginner
by Andy Harris Course Technology © 2004

A340 Course Outline

- HTTP
  - Overview of the course; Network view of web communications
- HTML
  - Text Formatting: tags and attributes
  - Frames, Tables
  - Links and Cross-References
  - Forms and data passing
- CSS
  - Style sheets
  - Attribute processing
  - Tricks
- JavaScript
  - Attribute, Object processing
  - Service calls
  - Input checking
  - Selective display
  - JavaScript Based Wiki
- CGI
  - Overview of the process
- PHP
  - Basics of the Language
  - Active server pages
  - Layered development
  - Data passing
  - Interfacing with SQL databases
  - SQL driven pages
  - Website modelling
  - Cookies and Session IDs
  - Shopping carts
  - Sending email with PHP
  - Authentication
  - Security
- Presentations
  - Website demos

Worksheets
- HTTP
- HTML Tags
- CSS
- JavaScript
- PHP
- PHP/MySQL

Programming Assignments
- Product listing - HTML version
- Product listing - CSS version
- Main menu with active buttons - JavaScript
- Data entry validation - JavaScript
- Product listing – PHP-SQL version
- Shopping Cart – PHP-SQL version
- Final project: A club website with member signup/login, announcements, contact info, club store, and user feedback