

CS 412: Web Application Development
College of Business and Technology Syllabus

COURSE INFORMATION

Credit Hours: 3

Course Description: This course serves as an introduction to different techniques and tools for the design of web applications. Topics covered include web applications flow, object oriented programming, design of classes, dynamic content, scripting languages, implicit objects, and database accessing. Students will be expected to understand and apply these concepts into the generation of sample websites.

Course Prerequisites: n/a

FACULTY INFORMATION

Instructor: Rachel Adler

Office Location: CBT 171

Office Hours: After class; Or by appointment

Phone Extension: x4710 (email is the best way to reach me!)

E-mail: r-adler@neiu.edu

COURSE MATERIALS

List of Required Texts / Materials:

Course Website: <http://rachelfadler.com/cs412>

Optional Textbooks:

1. Fundamentals of Web Development by Randy Connolly, Ricardo Hoar, ISBN-13: 978-0133407150
 2. *Murach's HTML5 and CSS3* by Zak Ruvalcaba and Anne Boehm. Fresno, CA: Mike Murach & Associates, 2011. ISBN: 1890774669
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MAJOR COURSE TOPICS

- Design Concepts for Web Development
- Client-Server Architecture
- HTML5

- CSS3
- JavaScript
- JavaScript enhancements such as jQuery, Bootstrap
- Webservers
- Server-side programming
- Databases
- Advanced Web Application Strategies

COURSE OBJECTIVES / STUDENT LEARNING OUTCOMES

- Demonstrate proficiency with front-end web-based technologies
- Accessing/using databases as the back end for web applications.
- Develop server-side programs to support web applications.
- Effectively communicate web application concepts.

STUDENT TASKS / ASSIGNMENTS / REQUIREMENTS

Assignments and Projects:

Create webpages using HTML, CSS, JavaScript, jQuery, PHP, and MySQL.

Grading Policies and Formulae:

Assignments	50%
Project	40%
Online Quizzes	10%
90-100%	A
80-89%	B
70-79%	C
60-69%	D
0-59%	F

Course Outline:

Week	Topic	
1: (Ending Aug 26)	Introduction to HTML	
2: (Ending Sep 2)	HTML Basics	

3: (Ending Sep 9)	Uploading / Validating Webpages	
4: (Ending Sep 16)	HTML Tables and Forms	
5: (Ending Sep 23)	CSS Basics	
6: (Ending Sep 30)	CSS Box Model	
7: (Ending Oct 7)	CSS Links, Lists, and Tables	
8: (Ending Oct 14)	JavaScript Basics	
9: (Ending Oct 21)	JavaScript: Functions and Events	
10: (Ending Oct 28)	DOM and JavaScript	
11: (Ending Nov 4)	Introduction to Server-Side Development with PHP	
12: (Ending Nov 11)	PHP Arrays and Superglobals	
13: (Ending Nov 18)	Working with Databases	
14: (Ending Nov 25)	Work on Projects	
15: (Ending Dec 2)	Accessible Design	
(Tuesday Dec 7)	Final Projects Due	

COURSE POLICIES AND STATEMENTS

Academic Integrity Policy:

By enrolling in this course, you are bound by the NEIU Student Code of Conduct: <http://www.neiu.edu/university-life/student-rights-and-responsibilities/student-code-conduct>. You will be informed by your instructor of any additional policy specific to your course regarding plagiarism, class disruptions, etc.

ADA Statement:

Northeastern Illinois University (NEIU) complies with the Americans with Disabilities Act (ADA) in making reasonable accommodations for qualified students with disabilities. To request accommodations, students with special needs should make arrangements with the Student Disability Services (SDS) office, located on the main campus in room D104. Contact SDS via (773) 442-4595 or <http://www.neiu.edu/university-life/student-disability-services>.

Campus Safety:

Web links to Campus Safety: Emergency Procedures and Safety Information can be found on NEIUpport on the MyNEIU tab or as follows:

http://homepages.neiu.edu/~neutemp/Emergency_Procedures/MainCampus/.

Assignment Policy:

There will be many assignments. All work must be submitted by their given due date. Please begin assignments early to ensure that you finish them on time. All grades for each assignment will be posted online on D2L at most one week after the due date. All assignments are due Thursdays before 4p.m.

Additional Academic Integrity Policy:

All assignments must be the student's own work.