

**CS 412: Web Application Development
College of Arts & Sciences 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: CS 207 or CS 406

FACULTY INFORMATION

Instructor: Rachel Adler

Office Location: LWH 3047

Office Hours: Tuesdays: 10am – 12:45pm and Thursdays 12:45pm – 3:00pm or by appointment

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

E-mail: R-Adler@neu.edu

COURSE MATERIALS

List of Required Texts / Materials:

Course Website: <http://cs.neiu.edu/~radler/cs412>

Required Textbooks:

1. Fundamentals of Web Development by Randy Connolly, Ricardo Hoar, ISBN-13: 978-0133407150

Optional Textbooks:

1. *Murach's HTML5 and CSS3* by Zak Ruvalcaba and Anne Boehm. Fresno, CA: Mike Murach & Associates, 2011. ISBN: 1890774669
-

COURSE OBJECTIVES / STUDENT LEARNING OUTCOMES

- Students will have a deeper knowledge of how the web works.
- Students should be able to understand and work with web technologies and tools such as HTML5, CSS, JavaScript, jQuery, and PHP.
- Students should acquire the skills to create and use necessary databases for their applications and create dynamic web applications.
-

STUDENT TASKS / ASSIGNMENTS / REQUIREMENTS

Assignments:

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

Project:

Build a complete website which includes HTML5, CSS3, and JavaScript/jQuery, PHP, and a database. The site should be complete, validated, free of errors, and easy to use.

Grading Policies and Formulae:

Assignments	30%
Project	30%
Online Quizzes	10%
Online Midterm Exam	30%
90-100%	A
80-89%	B
70-79%	C
60-69%	D
0-59%	F

Course Outline:

Week	Topic	Textbook Chapter
1: (Ending Aug 25)	Introduction	Chapter 1
2: (Ending Sep 1)	Introduction to HTML	Chapter 2

3: (Ending Sep 8)	Introduction to CSS	Chapter 3 (except Box Model which is in two weeks)
4: (Ending Sep 15)	HTML Tables and Forms	Chapter 4
5: (Ending Sep 22)	CSS Box Model / Bootstrap	Remainder of Chapter 3, Chapter 5
6: (Ending Sep 29)	Client-Side Scripting with JavaScript	Chapter 6
7: (Ending Oct 6)	Midterm Exam	
8: (Ending Oct 13)	Introduction to jQuery	Chapter 15
9: (Ending Oct 20)	More jQuery	
10: (Ending Oct 27)	Introduction to Server-Side Development with PHP	Chapter 8
11: (Ending Nov 3)	PHP Arrays and Superglobals	Chapter 9
12: (Ending Nov 10)	Working with Databases	Chapter 11
13: (Ending Nov 17)	Error Handling and Validation	Chapter 12
(Ending Nov 24)	Thanksgiving Break	
14: (Ending Dec 1)	Cookies and State	Chapter 13
15: (Ending Dec 8)	Work on Project	
Finals Week: (Ending May 5)	Final Projects Due	

COURSE POLICIES AND STATEMENTS

Absence Policy:

As this is an online class, attendance is in the form of doing all assignments on time. No late work is allowed.

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 NEIUport 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 on their given due date or a grade of zero will be assigned. **No late homework assignments will be accepted.** 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 4:00p.m.**

Additional Academic Integrity Policy:

All assignments must be the student's own work. If you copy homework, you and the student whose homework you copied will receive a zero. Two students may not submit the same homework. If you are caught copying another student's exam, or allowing someone to copy your exam, you will fail the exam and face further academic discipline.