Course Syllabus

General Course Information:

- Instructor: Don B. Stringham
- Office hours: Please contact me to schedule a time
- Phone: 801-205-3157
- Email: donstringham@weber.edu
- Classroom: Business Building 320BB - SLCC Taylorsville Campus
- Class times: Tuesday & Thursday 7:30 pm - 9:20 pm

Textbook:


Course Objectives:

This class is an introduction to server-side Web development using the most current Web server technologies. General Web development principles such as usability, reliability, maintainability and scalability will be applied to current Web development environments. Students will gain real-world experience in creating server-side heavy Websites for Web platform using PHP and JavaScript.

Website:

Supplementary information for the course is available on WSU Online at https://weber.instructure.com/courses/369707. The web site contains class notes, PowerPoint slides, class announcements, the course syllabus, tests, and other information for the course.

Communication:

If you have any questions about the course or need assistance, please contact me in person or by telephone during work hours; or via WSU Online at any time.

Grading and Evaluation Criteria:

45% - Assignments
50% - Projects
05% - Class Participation & Attendance

Course Outline:

Week 01 - Welcome to class & Overview of Web Architecture(s) and Technologies
Week 02 - Exploring the Server-Side Web Developer Workflow & Tools
Week 03 - Web API's and Representational State Transfer (REST)
Week 04 - The PHP language
Week 05 - Object-oriented PHP programming
Week 06 - Test-Driven PHP
Week 07 - Polyglot Persistence in PHP: (MySQL & Redis)
Week 08 - The JavaScript language
Week 09 - Testing Client-side JavaScript
Week 10 - Introduction to NodeJS
Week 11 - Server-Side Microservices with PHP and NodeJS
Week 12 - Putting It All Together: Review Web API's & Web Architecture(s)
Weeks 13-15 - Final Project

Honesty policy:

CS Department policy dictates that any verifiable evidence of student academic cheating, as defined and determined by the instructor, will result in:
1. an automatic failing grade for the class and
2. a report to the Dean of Students that will include the student's name and a description of the student's dishonest conduct.
3. What constitutes cheating? As per the WSU Student Code in the PPM: The following activities are specifically prohibited:

1. Cheating, which includes but is not limited to:
   1. Copying from another student's test;
   2. Using materials during a test not authorized by the person giving the test; iii) Collaborating with any other person during a test without authorization;
   3. Knowingly obtaining, using, buying, selling, transporting, or soliciting in whole or in part the contents of any test without authorization of the appropriate University official
   4. Bribing any other person to obtain any test;
   5. Soliciting or receiving unauthorized information about any test;
   6. Substituting for another student or permitting any other person to substitute for oneself to take a test.
2. Plagiarism, which is the unacknowledged (uncited) use of any other person’s or group’s ideas or work. This includes purchased or borrowed papers;
3. Collusion, which is the unauthorized collaboration with another person in preparing work offered for credit;
4. Falsification, which is the intentional and unauthorized altering or inventing of any information or citation in an academic exercise, activity, or record-keeping process;
5. Giving, selling, or receiving unauthorized course or test information;
6. Using any unauthorized resource or aid in the preparation or completion of any course work, exercise, or activity;
7. Infringering on the copyright law of the United States which prohibits the making of reproductions of copyrighted material except under certain specified conditions.

Students with Disabilities:

"Any student requiring accommodations or services due to a disability must contact Services for Students with Disabilities (SSD) in room 181 of the Student Services Center. SSD can also arrange to provide course materials (including the syllabus) in alternative formats if necessary." For more information about the SSD contact them at 801-626-6413, ssd@weber.edu, or http://departments.weber.edu/ssd
**Lab: Project 1**

**Project 1 - Deliverable 1: Design document**

**The PHP language**

**Assignment 3 - PHP: Get Started**

**Object-oriented PHP programming**

**Assignment 4 - Object-oriented PHP: Essential Constructs**

**Project 1 - Deliverable 2: POC Code**

**Test-Driven PHP**

**Assignment 5 - Play by Play: Test-Driven PHP with Chris Hartjes**

**Polyglot Persistence in PHP: Part 1 (MySQL)**

**Assignment 6 - Javascript From Scratch**

**Lab**

**Assignment 7 - Testing Clientside JavaScript**

**Lab**

**Assignment 8 - RESTful Web Services with Node.js and Express**
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<thead>
<tr>
<th>Date</th>
<th>Event Title</th>
<th>Details</th>
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<tbody>
<tr>
<td>Tue Jul 12, 2016</td>
<td>Lecture &amp; Lab</td>
<td><a href="https://weber.instructure.com/calendar?event_id=694919&amp;include_contexts=course_402315">Event</a> 7:30pm to 9:20pm</td>
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<td>Thu Jul 14, 2016</td>
<td>Lecture &amp; Lab</td>
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<td>Sun Jul 17, 2016</td>
<td>Assignment 9 - Cloud Oriented Programming</td>
<td><a href="https://weber.instructure.com/courses/402315/assignments/2606117">Event</a> due by 11:59pm</td>
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<td>Tue Jul 19, 2016</td>
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<td>Thu Jul 21, 2016</td>
<td>Lab: Final Project</td>
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<td>Sun Jul 24, 2016</td>
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<td><a href="https://weber.instructure.com/courses/402315/assignments/2606118">Event</a> due by 11:30pm</td>
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<td>Thu Jul 28, 2016</td>
<td>Lab: Final Project</td>
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<td>Sun Jul 31, 2016</td>
<td>Final Project - Deliverable 3</td>
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<td>Thu Aug 4, 2016</td>
<td>Lab: Final Project</td>
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<td>Sun Aug 7, 2016</td>
<td>Project 4 - Final Project</td>
<td><a href="https://weber.instructure.com/courses/402315/assignments/2606123">Event</a> due by 11:30pm</td>
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<td>Roll Call Attendance</td>
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