Course	**CS 6314.501**
Course Title	**Web Programming Languages**
Professor	Dr. Mithun Balakrishna
Term	Spring 2017
Meetings	Tuesday & Thursday: 7:00pm-8:15pm, ECSS 2.412

Professor's Contact Information

Office Phone	(972) 883-4523
Office Location	ECSS 4.403
Email Address	mxb026000@utdallas.edu
Office Hours	Tuesday & Thursday: 6pm-7pm
Other Information	Course Website – http://elearning.utdallas.edu

General Course Information

Pre-requisites, Co-requisites, & other restrictions	CS5343, Algorithm Analysis & Data Structures or equivalent
Course Description	The Web Programming Languages course provides a detailed presentation and understanding of web architecture, standards, protocols, tools, and technologies with particular emphasis on web programming languages and techniques. The course introduces students to basic tools required for web programming including HTML, CSS, and JavaScript, and web enabling technologies including AJAX, XML, and JSON. The course will familiarize students with a server-side programming language (Java Servlets/JSP). We will also deal with advanced web programming architecture, web security protocols & standards (HTTPS, OAuth, OpenID, and SAML), and web services techniques (SOAP/WSDL and REST).
Learning Outcomes	1. Understand web architecture, standards and protocols 2. Ability to learn and use client side scripting technologies 3. Ability to learn and use different data formats including XML and JSON 4. Ability to learn and use relational data model and database technologies 5. Ability to learn and use server-side scripting technologies 6. Understand web security protocols and standards; techniques and algorithms related to web services, cloud computing and semantic web
Required Texts & Materials	All required texts and materials are provided in the course eLearning page.
Suggested Texts, Readings, & Materials	Suggested texts, readings, and materials are listed in the lecture slides for individual topics.

Assignments & Academic Calendar (Subject to Change)

01/10/2017	Introduction to web architecture, standards, protocols, tools, and technologies
01/12/2017	Introduction to web architecture, standards, protocols, tools, and technologies
01/17/2017	HTML/XHTML
01/19/2017	HTML5
01/24/2017	CSS Introduction to client side scripting
01/26/2017	JavaScript
01/31/2017	JavaScript
02/02/2017	JQuery
02/07/2017	JQuery
02/09/2017	XML Technologies
02/14/2017	XML Technologies
02/16/2017	JSON
02/21/2017	Midterm Exam Topic Review
02/23/2017	Project Introduction
02/28/2017	Midterm Exam
03/02/2017	Server-side programming with Java Servlets and JSP
03/07/2017	Server-side programming with Java Servlets and JSP Introduction to Web Services
03/09/2017	Project Discussion Midterm Exam Return
03/13/2017- 03/18/2017	Spring Break
03/21/2017	Server-side programming with Java Servlets and JSP
03/23/2017	Web Services with SOAP and RESTful
03/28/2017	Web Services with SOAP and RESTful
03/30/2017	Web Services with SOAP and RESTful
04/04/2017	Sample Code Demos
04/06/2017	Web Security Protocols & Standards, Compression, and Caching
04/11/2017	Web Security Protocols & Standards, Compression, and Caching
04/13/2017	Sample Code Demos
04/18/2017	Server-side JavaScript
04/20/2017	Server-side JavaScript
04/25/2017	Web Application Architecture: Case Studies
04/27/2017	Project Demo Discussion Final Exam Topic Review
Final Exam	5/4/2017, Thursday

	8:30PM - 10:30PM SOM 11.206

Course Policies

<table>
<tr><td>Grading (credit) Criteria</td><td>The grade weight breakdown for the course is:
Midterm 20%
Homework 20%
Project 30%
Final Exam 30%

The grade thresholds for the overall course grade is[1]:
<table>
<tr><th>%</th><th>Letter Grade</th><th>Credit</th></tr>
<tr><td>93-100</td><td>A</td><td>4.00</td></tr>
<tr><td>90-92</td><td>A-</td><td>3.66</td></tr>
<tr><td>87-89</td><td>B+</td><td>3.33</td></tr>
<tr><td>83-86</td><td>B</td><td>3.00</td></tr>
<tr><td>80-82</td><td>B-</td><td>2.66</td></tr>
<tr><td>77-79</td><td>C+</td><td>2.33</td></tr>
<tr><td>70-76</td><td>C</td><td>2.00</td></tr>
<tr><td>0-69</td><td>F</td><td>0.00</td></tr>
<tr><td>-</td><td>I</td><td>*</td></tr>
<tr><td>-</td><td>P</td><td>*</td></tr>
</table>
*The grades P and I do not produce grade points.</td></tr>
<tr><td>Make-up Exams</td><td>There will be no make-up exams unless previously requested and approved by the instructor</td></tr>
<tr><td>Extra Credit</td><td>Opportunities to score extra credits might be available in the Midterm, Project, and Final exams</td></tr>
<tr><td>Late Work</td><td>up to 2 hours late — 10% deduction
2 - 4 hours late — 20% deduction
4 - 12 hours late — 35% deduction
12 - 24 hours late — 50% deduction
24 - 48 hours late — 75% deduction
more than 48 hours late — 100% deduction (zero credit)</td></tr>
<tr><td>Special Assignments</td><td>None</td></tr>
<tr><td>Class Attendance</td><td>Three consecutive absences lead to one letter grade drop.
Four consecutive absences lead to an F.</td></tr>
<tr><td>Comet Creed</td><td>This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:

“As a Comet, I pledge honesty, integrity, and service in all that I do.”</td></tr>
<tr><td>UT Dallas Syllabus Policies and Procedures</td><td>The information contained in the following link constitutes the University’s policies and procedures segment of the course syllabus.

Please go to http://go.utdallas.edu/syllabus-policies for these policies.</td></tr>
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The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.

[1] **Please refer to the “Class Attendance” course policy for other factors that might adversely affect the final course letter grade.**