



**Course** CS 6314.501  
**Course Title** Web Programming Languages  
**Professor** Dr. Mithun Balakrishna  
**Term** Fall 2017  
**Meetings** Friday 7:00pm-9:45pm, ECSS 2.201

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### Professor's Contact Information

<b>Office Phone</b>	(972) 883-4523
<b>Office Location</b>	ECSS 4.403
<b>Email Address</b>	<a href="mailto:mx026000@utdallas.edu">mx026000@utdallas.edu</a>
<b>Office Hours</b>	Tuesday 6pm-7pm (By Appointment Only) Friday 6pm-7pm (By Appointment Only)
<b>Other Information</b>	Course Website – <a href="http://elearning.utdallas.edu">http://elearning.utdallas.edu</a>

### General Course Information

<b>Pre-requisites, Co-requisites, &amp; other restrictions</b>	CS5343, Algorithm Analysis & Data Structures or equivalent
<b>Course Description</b>	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).
<b>Learning Outcomes</b>	<ol style="list-style-type: none"><li>1. Understand web architecture, standards and protocols</li><li>2. Ability to learn and use client side scripting technologies</li><li>3. Ability to learn and use different data formats including XML and JSON</li><li>4. Ability to learn and use relational data model and database technologies</li><li>5. Ability to learn and use server-side scripting technologies</li><li>6. Understand web security protocols and standards; techniques and algorithms related to web services, cloud computing and semantic web</li></ol>
<b>Required Texts &amp; Materials</b>	All required texts and materials are provided in the course eLearning page.
<b>Suggested Texts, Readings, &amp; Materials</b>	Suggested texts, readings, and materials are listed in the lecture slides for individual topics.

### Assignments & Academic Calendar (Subject to Change)

<b>08/25/2017</b>	Introduction to web architecture, standards, protocols, tools, and technologies
<b>09/01/2017</b>	HTML/XHTML, HTML5, and CSS
<b>09/08/2017</b>	HTML/XHTML, HTML5, and CSS (Continued)

	Introduction to client side scripting
09/15/2017	JavaScript
09/22/2017	JQuery
09/29/2017	XML Technologies and JSON
10/06/2017	Server-side programming with Java Servlets and JSP Project Discussion Midterm Exam Topic Review
10/13/2017	Midterm Exam
10/20/2017	Server-side programming with Java Servlets and JSP (Continued) Midterm Exam Return
10/27/2017	Introduction to Web Services Web Services with SOAP and RESTful
11/03/2017	Web Services with SOAP and RESTful (Continued) Project Discussion
11/10/2017	Web Security Protocols & Standards, Compression, and Caching
11/17/2017	Web Application Architecture: Case Studies Project Discussion
11/23/2017	Thanksgiving Holiday
12/01/2017	Project Discussion Final Exam Topic Review
Final Exam	TBA

### Course Policies

Grading (credit) Criteria	<p>The grade weight breakdown for the course is:  <b>Midterm 20%</b>  <b>Homework 20%</b>  <b>Project 30%</b>  <b>Final Exam 30%</b></p> <p>The grade thresholds for the overall course grade is<sup>1</sup>:</p>		
	%	Letter Grade	Credit
	93-100	A	4.00
	90-92	A-	3.66
	87-89	B+	3.33
	83-86	B	3.00
	80-82	B-	2.66
	77-79	C+	2.33
	70-76	C	2.00
	0-69	F	0.00
-	I	*	
-	P	*	
	*The grades P and I do not produce grade points.		
Make-up Exams	There will be no make-up exams unless previously requested and approved by the instructor		
Extra Credit	Opportunities to score extra credits will be available in the Midterm, Project,		

<sup>1</sup> Please refer to the “Class Attendance” course policy for other factors that might adversely affect the final course letter grade.

	<b>and Final exams</b>
<b>Late Work</b>	<b>up to 2 hours late — 10% deduction</b> <b>2 - 4 hours late — 20% deduction</b> <b>4 - 12 hours late — 35% deduction</b> <b>12 - 24 hours late — 50% deduction</b> <b>24 - 48 hours late — 75% deduction</b> <b>more than 48 hours late — 100% deduction (zero credit)</b>
<b>Special Assignments</b>	None
<b>Class Attendance</b>	<b>Three consecutive absences lead to one letter grade drop.</b> <b>Four consecutive absences lead to an F.</b>
<b>Comet Creed</b>	<i>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:</i>  <i>“As a Comet, I pledge honesty, integrity, and service in all that I do.”</i>
<b>UT Dallas Syllabus Policies and Procedures</b>	<i>The information contained in the following link constitutes the University’s policies and procedures segment of the course syllabus.</i>  <i>Please go to <a href="http://go.utdallas.edu/syllabus-policies">http://go.utdallas.edu/syllabus-policies</a> for these policies.</i>

***The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.***