



## CS 6314.001/002 – Web Programming Languages

### **INSTRUCTOR:**

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Office: ECSS 3.405

Office hours: Fridays 9:00 – 11:00 am

### **Course Description**

Web Programming Languages course provides a detailed presentation and understanding of web architecture, standards, protocols, tools, and technologies. The course also introduces students to basic tools required for web programming including HTML/HTML5, CSS, and JavaScript. The course will familiarize students with AJAX, XML, JSON as well as database technologies, and server-side programming using PHP and Ruby on Rails. We will also deal with advanced web programming architecture, web security protocols & standards, techniques and algorithms related to web services, cloud computing and semantic web.

### **Optional Textbooks and Materials**

1. Web Programming Step by Step, Second Edition,  
Author: Marty Stepp, Jessica Miller, and Victoria Kirst  
Publisher: Step by Step Publishing  
ISBN: 978-1-105-57878-6

All required materials are provided on the course eLearning page.

### **Topics**

Introduction to web architecture, standards, protocols, tools, and technologies  
HTML, HTML5 and CSS  
JavaScript, JQuery  
AJAX, XML Technologies, JSON  
Database Technologies and SQL  
Server-side programming with PHP  
Server side programming with Ruby on Rails  
Introduction to Service Oriented Architecture (SOA) and Web Services  
RESTful Web Services  
Web Security  
Cloud Computing  
Semantic Web

## **Evaluation:**

Your grade for the course will be based on the following percentages:

Exam-1	25%
Exam-2	25%
Practice Work	10% (~5 practice work)
Assignments	20% (5 home work)
Final Project	20% (group project)

Letter grades will be assigned according to the following scale:

A: 93-100  
A-: 90-92  
B+: 87-89  
B: 83-86  
B-: 80-82  
C+: 77-79  
C: 70-76

## **Communication**

The best way of communication with the Instructor and course TA's is through email. Since classes are over crowded, when you send an email, you include the course and section number in your email subject line and make sure you include your net-id and full name at the end of email message. Each student is responsible for the content/instructions of email communications.

Assignments and projects will be posted on eLearning system. Detailed information will be provided by the instructor as needed. Students will turn in their assignments/projects through eLearning portal.

## **Course Policies**

- Assignments should be turned in no later than the deadline announced by the instructor of this class. Turn in what is completed by the deadline for partial credit. No late submissions will be accepted.
- You should do your own work on exams/projects and for assignments. Copying another student's work is not acceptable. Any indication of cheating and/or plagiarism on an exam/assignment/project will be an automatic 0 (zero) for the exam/assignment/project for all students involved. Solutions copied from the internet, instructor's manual, etc. will be also given zero credit.
- Regular class attendance and participation is expected and is the responsibility of each individual. There is a strong correlation between regular class attendance and good performance. If a student should elect not to attend a class, (s)he is responsible for any handouts, announcements, reading material and contents of missed lectures.

- Cell phone use is not allowed during the lectures. This is due to two important reasons: 1. It potentially causes distraction and this affects the overall quality of the lecture. 2. Research shows student performance is adversely affected by digital device use and those students who are engaged in cell phone/laptop use receive lower final grades as compared to their peers who do not use any electronic device and take paper and pen notes.
- Once you come to class, it is not appropriate to leave the class early for any reason. If you know you have to leave early for an unavoidable and important reason, make sure you sit close to the door and leave the classroom without distracting others while leaving. For the same reason, you also make sure you come to class on time.
- There will be no makeup exams unless there is a serious conflict that prevents you to take the exam on scheduled date and time and prior notification of such a condition is required.
- If there are questions/doubts about grading, please see the grader or instructor within one week of grade announcement.

See also UTD's policies at <http://go.utdallas.edu/syllabus-policies>

**This syllabus is subject to change at any time at the discretion of the Professor.**