UTD CS 6314 – Web Programming Languages

INSTRUCTOR:
Nurcan Yuruk, Ph.D.
Department of Computer Science
Office: ECSS 3.211
E-mail: nurcan.yuruk@utdallas.edu

Virtual office hours:
Wednesday, 12-2pm

All timings are listed according to Central Standard Time (CST).

TA contact information and office hours will be posted on eLearning once a TA is assigned to the course.

Course Description
Web Programming Languages course provides a detailed presentation and understanding of web architecture, standards, protocols, tools, and technologies. The course introduces students to basic tools required for web programming including HTML/HTML5, CSS, and JavaScript. It will familiarize students with AJAX, XML, JSON as well as database technologies, and server-side programming using ~~PHP~~ Python. There will be an introduction to full stack web development via Node.js and MongoDB. The course will also cover advanced web programming architecture, web security protocols & standards, techniques and algorithms related to web services, cloud computing and semantic web.

Prerequisite
CS 5343: Algorithm Analysis and Data Structures.

Textbooks and Materials

No textbook required. All course materials will be provided online.

Instructional Mode	**Online** Please see below link for detailed information on each instruction mode: https://covid.utdallas.edu/students-families-info/spring-2021-registration/
Course Platform	All course materials including pre-recorded lectures, practice works and assignments will be posted on eLearning. Office hours will be held virtually on MS Teams.
Expectations	Mondays: A video lecture and corresponding power point presentation or tutorial page will be posted. Video for a hands-on example will be posted. You will be responsible for reviewing the videos and lecture slides. Wednesdays: You will be given a small lab assignment. They are called practice works. These are small assignments that you could finish during one class session if we had face-to-face class meetings. The due date for practice works will be end of the day (11:59pm) Saturday for the corresponding week. In addition to practice works, you will complete four assignments and one final project (group project). Announcements, assignments and project will be posted on course eLearning page. You will turn in your assignments/project through eLearning portal. No email submissions will be accepted.
Asynchronous Learning Guidelines	You can find detailed information about asyncronous learning here: https://covid.utdallas.edu/response/faq/#asynchronous

Topics
Introduction to web architecture, standards, protocols, tools, and technologies
HTML, CSS and Bootstrap
JavaScript, JQuery
AJAX, XML Technologies, JSON
Relational Databases and SQL
No-SQL Databases, MongoDB
Server-side programming with Python Flask
Introduction to Service Oriented Architecture (SOA) and Web Services
RESTful Web Services
Web Security
React (optional)

Evaluation:

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

Exam-1   20%
Exam-2   20%
Practice Work   20% (5 practice works)
Assignments   20% (4 homework)
Final Project   20% (group project)

Letter grades will be assigned according to the following scale:

A: 93-100
A-: 90-94
B+: 85-89
B: 80-84
B-: 75-79
C+: 70-74
C: below 70

Exams
All exams will be online.
This course will use Honorlock – an online exam proctoring tool. To successfully take an exam, you must have a web camera with microphone, a laptop or desktop computer (no tablets/phones), Chrome browser, a reliable internet connection and your photo ID. You will be prompted to install the Honorlock Chrome Extension (which you can remove after you finish the test). You will then access the exam within your eLearning course and go through the authentication process. The web camera will monitor you throughout your test.
Please see the Testing Guidelines and Support Information for additional information.

Exam dates:
Exam-1: June 28, 8pm
Exam-2: August 2, 8pm

Course Policies

- Assignments should be turned in no later than the deadline announced by the instructor. Turn in what is completed by the deadline for partial credit. No late submissions will be accepted.
- Practice works not returned on due date receive -10 points penalty for each day delayed. They cannot be submitted after 2 days.
- 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.
- There will be no makeup exams unless there is a serious conflict that prevents you to take the exam at scheduled exam date and time and prior notification of such condition is required.
- If there are questions/doubts about grading, please contact course TA within one week of grade announcement.

Communication

The best way of communication with the Instructor and course TA is through email. When you send an email, please make sure to include your NetID (xyz000000) at the end of email message. Each student is responsible for the content/instructions of email communications. Student emails will be answered within 2 working days under normal circumstances.

Course Access and Navigation

This course can be accessed using your UT Dallas NetID account on the eLearning website. Please see the course access and navigation section of the Getting Started with eLearning webpage for more information.To become familiar with the eLearning tool, please see the Student eLearning Tutorials webpage.
UT Dallas provides eLearning technical support 24 hours a day, 7 days a week. The eLearning Support Center includes a toll-free telephone number for immediate assistance (1-866-588-3192), email request service, and an online chat service.

Class Recordings

Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless the Office of Student AccessAbility has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. Failure to comply with these University requirements is a violation of the Student Code of Conduct.

Class Materials

The Instructor may provide class materials that will be made available to all students registered for this class as they are intended to supplement the classroom experience. These materials may be downloaded during the course, however, these materials are for registered students' use only. Classroom materials may not be reproduced or shared with those not in class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. Failure to comply with these University requirements is a violation of the Student Code of Conduct.

Distance Learning Student Resources

Online students have access to resources including the McDermott Library, Academic Advising, The Office of Student AccessAbility, and many others. Please see the eLearning Current Students webpage for more information.

Disability Services

It is the policy and practice of The University of Texas at Dallas to make reasonable accommodations for students with properly documented disabilities. However, written notification from the Office of Student AccessAbility (OSA) is required. If you are eligible to receive an accommodation and would like to request it for this course, please discuss it with me and allow one week advance notice. Students who have questions about receiving accommodations, or those who have, or think they may have, a disability (mobility, sensory, health, psychological, learning, etc.) are invited to contact the Office of Student AccessAbility for a confidential discussion. OSA is located in the Student Services Building, suite 3.200. They can be reached by phone at (972) 883-2098, or by email at studentaccess@utdallas.edu.

For University's policies and procedures including COVID-19 guidelines and resources, please see https://go.utdallas.edu/syllabus-policies.

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