Course Syllabus

Course Information

(course number, course title, term, any specific section title)

Course number	CS 6314.0U1
Course Title	WEB PROGRAMMING LANGUAGES
Term	2017 Summer
Meeting Place & Time	Tues & Thurs12:30pm - 2:45pm. ECSS 2.311

Professor Contact Information

(Professor's name, phone number, email, office location, office hours, other information)

Professor	Richard Min
Office Phone	972-883-4522
Other Phone	
Email Address	rkm010300@utdallas.edu
Office Location	ECSS4.609
Online Office Hours	MW 1-3pm (or by appointment)
Other Information	

Course Pre-requisites, Co-requisites, and/or Other Restrictions

(including required prior knowledge or skills)

CS5343 Algorithm Analysis and Data Structures

Course Description

CS 6314 - Web Programming Languages (3 semester credit hours) Advanced understanding of web architecture, standards, protocols, tools, and technologies. Tools required for web programming including HTML, CSS, and JavaScript; XML and database technologies; server-side programming using PHP; Web security protocols and standards; techniques and algorithms related to web services, cloud computing, and semantic web. Prerequisite: CS 5343. (3-0) S

Student Learning Objectives/Outcomes

After successful completion of this course, the student should be able to:
1. Ability to understand web architecture, standards, protocols, tools, and technologies
2. Ability to understand HTML, HTML5 and CSS.
3. Ability to understand JavaScript, JQuery, AJAX, XML, JSON
4. Ability to understand Database Technologies and SQL
5. Ability to understand Server-side programming with PHP
6. Ability to understand Web Services SOAP and RESTful Web Services
7. Ability to understand Web Security Protocols & Standards Semantic Web

Required Textbooks and Materials

1. Internet & World Wide Web: How to Program, Fifth Edition. Paul Deitel; Harvey Deitel; Abbey Deitel. © 2011. ISBN-10: 0-13-215100-6. ISBN-13: 978-0-13-215100-9
(Available online via UTD Library => ebook => Safari)

2. Learning PHP, MySQL & JavaScript, 4th Edition. Robin Nixon. © 2014 O'Reilly Media, Inc. ISBN-13: 978-1-4919-1866-1
(Available online via UTD Library => ebook => Safari)

3. Fundamentals of Web Development. Randy Connolly and Ricardo Hoar. © 2014 Pearson. ISBN-978-0133407150.

Suggested Course Materials

1. HTML & CSS: The Good Parts. Ben Henick. © 2010 O'Reilly Media, Inc. **ISBN-13:** 978-0-596-15760-9. (Available online via UTD Library => ebook => Safari)

2. Beginning JavaScript, 4th Edition Author: Paul Wilton and Jeremy McPeak. Wrox. ISBN 978-0-470-52593-7. (Available online via UTD Library => ebook => Safari)

3. PHP Web Services, 2nd Edition. Lorna Jane Mitchell. © 2016 O'Reilly Media, Inc. ISBN-13: 978-1-4919-3309 (Available online via UTD Library => ebook => Safari)

4. Sams Teach Yourself AngularJS, JavaScript, and jQuery All in One in 24 Hours. Brad Dayley; Brendan Dayley © 2015 Sams. ISBN-13: 978-0-672-33742-0. ISBN-10: 0-672-33742-8
(Available online via UTD Library => ebook => Safari)

5. Learning Selenium Testing Tools - Third Edition. Raghavendra Prasad MG. © 2015 Packt Publishing. ISBN-13: 978-1-78439-649-7
(Available online via UTD Library => ebook => Safari)

6. Beginning JSP, JSF and Tomcat: Java Web Development. Giulio Zambon. © 2012 Apress. ISBN-10: 1-4302-4623-5. ISBN-13: 978-1-4302-4623-7
(Available online via UTD Library => ebook => Safari)

7. Visual C# 2012: How to Program, Fifth Edition. Paul Deitel; Harvey Deitel. © 2013 Prentice Hall. ISBN-10: 0-13-337933-7. ISBN-13: 978-0-13-337933-4
(Available online via UTD Library => ebook => Safari)

Online Resource

http://w3techs.com
http://w3techs.com/technologies/overview/programming_language/all
http://www.w3schools.com/
Tutorials for HTML, CSS, JavaScript, PHP, SQL, jQuery

Assignments & Academic Calendar

(Topics, Reading Assignments, Due Dates, Exam Dates)

05/30 Tuesday	First Day of Class
07/04 Tuesday	Martin Luther King Jr. - Holiday – NO CLASSES
Due Monday 12pm Noon: **(1) 6/12, (2) 7/03, (3) 7/24, (4) 8/07.**	4 Assignments Due – check eLearning for details

Friday 1pm–8pm **(1) 6/23, (2) 7/14, (3) 8/04**	Test 1,2,3 (In TESTING CENTER and not in classroom)
8/10 Thursday	Last Day of class
8/11-8/12 Final Exam period	Final Examination (To be announced) 8/16 Grade Due

* Note: The dates here are tentatively assigned and are subject to change as needed.

45% for 3 Tests. 15% for each 2-hour test. Tentatively scheduled: Friday 11am–9pm on (1) 2/17, (2) 3/24, (3) 4/21. Each test will be taken at Testing Center (Student Assessment Center, McDermott Library 1st floor) for 2-hour examination. Time of Test will be announced later in elearning. Each student should make a seat reservation prior to each test. All exams are closed book and closed notes. Exams will focus more on concepts and less on details. Necessary documentation will be provided to avoid the need for memorization as much as possible. We will likely take all the tests in the testing center as scheduled. You can expect to see a few coding/analysis questions, a few short answer questions and a few multiple-choice questions in each test. Instructor is responsible for grading all the tests. Any make-up tests will be scheduled during the same week (usually Tuesdays prior to the actual test date) at the discretion of the instructor. There should be a valid reason for scheduling make-up tests & they need to be coordinated with the instructor, 1-2 weeks prior to the test date except for serious medical condition (with Doctor's or Hospital's certificate will be required as a valid proof.) **Without a valid reason, any late makeup test scheduled after the regular test date will be subject to 10-20% penalty.** It is unlikely that curving will be used to boost the final grades. If the instructor decides to do it, only the test scores will be boosted, but the tests' contribution will be clipped at 60%. In other words, curving will NOT make up for the points lost in all other assignments. So, it is extremely important to complete them in timely manner.

40% for 4 Assignments. Due (Monday 12pm Noon): (1) 2/06, (2) 3/06, (3) 4/03, (4) 4/24. You can ask for clarifications and help in the weekly forum. If you need help with your code, it is ok to post 1 or 2 lines of code, but do not post your full program - email it to TA or professor instead. You are expected to start working on them as soon as they are posted. Do not expect us to rescue you on the day of submission. I encourage everyone to submit the projects 1 or 2 days early. You can upload it again but the last submission will be graded. [Do not wait until the last minute to submit it. I do understand things happen and occasionally as you may not be able to submit projects on time.] The Late Penalty policy is to assess 1% penalty for every 1 hours. For example, if you submit the projects exactly 1 day later, 24% penalty will be assessed. Late projects will be accepted up to 3 days and thereafter 0. You won't be able to submit it after 3 days and your project grade will be set to 0. My advice is to submit whatever you have done (your best effort) before/by the due, to seek for any further discretion and/or consideration. All these assignments/projects should be done in Linux and you will hand-in your projects directly in Linux. We will NOT use elearning to submit the projects, but your grades and TA's comments will be recorded there - you can click on My Grades to access them. More details on Assignment & Submission steps will be given with eLearning.

Warning. To get A- or above (in letter grade), student should complete and submit all the assignments and get over 60% for each assignment. To get B- or above, student should complete and submit at least 75% of the assignments, and get over 40% or more for each assignment.

An instructor who believes a student has committed an act of **plagiarism** should take appropriate action, which includes the issuing of a “penalty grade” (that is, F for the course) for academic dishonesty. For any "minor" plagiarism charge, the maximum letter grade for the course would be B+ or lower.

15% for Weekly Activity & Quiz (including online quiz) will be posted by Monday & will be due Saturday midnight (11:59pm) every week. It will be a small programming exercise or tryout (e.g., to write and run a simple "Hello world" program, to try Linux commands or sample programs provided, to install a tool to try it) in most weeks. It can also be a quiz (online and open-book) or some other meaningful activity as well. It will vary every week. Each weekly activity and its score may vary case by case. Late

submissions are NOT accepted for weekly activities and quizzes. Note: Weekly quiz will provide a good snapshot, an excellent opportunity to review, and for a preparation for each test. Late submissions are NOT accepted for weekly activity or quiz. **Weekly Postings. 2** meaningful and relevant posts are required every week in weekly discussion forums. This is extremely crucial component of a true online course. No non-sense and no trivial comment. One-liners saying "Thanks!" ("Weather is bad" or "I got it" or "I do not know" or "very good" etc.) will not be counted as a valid posting or participation. Keep your posting very relevant and valuable to you and your classmates, and to the course work and activity of the week. Your post can be a good question, meaningful response to another student's question, interesting observation, etc. For a question, you should do your own homework for your question and share your findings. If you use an external source, you should provide a reference or a link of the source, and provide a good overview or summary in your wording. Do not post any offending or destructive content. Do not post any overwhelming contents (e.g., to copy and paste big image or images, or very long text content, or using "big" fonts) but you should attach a file as you need. In simple words, each post should value to the course. Instructor (TA or Grader) will grade the weekly forum and determine the value of each post - instructor's decision is final. First post should be submitted latest by Wednesday midnight and 2nd post should be completed latest by Saturday midnight, otherwise respective posts won't receive any grade. It is possible for someone to be a silent observer in on-ground course and still manage to get the final grade of A. It is impossible to do it in online course. Reasonable progress towards the expected answer or learning will get 1 point & perfect or near-perfect submissions will get 2 points. Late submissions are NOT accepted for weekly posts.

The following Table is for Weekly Activity (See the detail for elearning).

Spring 2017 Schedule/Plan*

* Note: The dates and the topics are subject to change as needed.

Week	Topics	Other/Optional Topics	Examination	Assignment
01 5/30 6/01	Web Tech Introduction	Introduction & Syllabus		
02 6/06 6/08	HTML, HTML5, CSS	Xampp		
03 6/13 6/15	Javascript, JQuery	Google Map		A1 6/12 M noon
04 6/20 6/22	Web Media		Test1 6/23 F	
05 6/27 6/29	PHP & Xampp			
06 ~~7/04~~ 7/06	PHP & MySQL	ASP.NET C#, JSF		A2 7/03 M noon
07 7/11 7/13	Ajax, XML, JSON	User Interface, Usability	Test2 7/14 F	
08 7/18 7/20	Web Services	SOAP & RESTful		
09 7/25 7/27	Web Security	Selenium, Web Crawling &		A3 7/24 M noon
10 8/01 8/03	Semantic Web	Mining, CMS, Search Eng	Test3 8/04 F	
11 8/08 8/10	Advanced Topics	Presentation by Student		A4 8/07 M noon
8/11-8/12	Final Exam Week	Grade Due 8/16		

Grading Policy

(including percentages for assignments, grade scale, etc.)

Grading Criteria	3 Tests (15%+15%+15%) 45% 4 Assignments (5+15+15+5) 40% Weekly Activity 15%	A = 96-100 A– = 90-95.999 B+ = 87-89.999 B = 83-86.999 B– = 80-82.999 C+ = 77-79.999 C = 73-76.999 F = below 73

Course & Instructor Policies

(make-up exams, extra credit, late work, special assignments, class attendance, classroom citizenship, etc.)

Make-up Exams	Not allowed (except those cases accepted by UTD policy, or check with Instructor for the early makeup on Tuesday prior to the scheduled date). For any late makeup test without excuse, there will be 10-20% penalty.
Late Work	1% reduction in grade per 1 hours for any late submissions. There is no credit (that is, grade 0) after 3 days late after the due date/time.
Class Attendance	Required; Attendance will be taken
Classroom Citizenship	Respect for your classmates is necessary at all times
All other policies	Please visit http://go.utdallas.edu/syllabus-policies for other policies

Instructor is responsible for grading all the tests & weekly participation. TA will be responsible for grading projects and weekly assignments. So, contact the TA directly for any grading related discrepancies for programs. It is not possible to give a detailed feedback for each project/weekly assignment/test question due to large # of students in our classes. If you need more details/clarification, you are encouraged to meet the TA/instructor during office hours & get personal attention. Do not rely on email alone to get the full response. If you are stuck with your assignment, it is better to turn in what you have and send us email. We will revise your submission and give some guidance. Your next submission will override the previous submission - TA will always grade the latest submission for each project. You can use email to get help for weekly assignments. Include the detailed problem description & applicable error messages, zip all your source files and include it with your email too. Do not just say "my program does not work" and expect us to figure out everything - you need to help us to help you efficiently. We expect to complete grading assignments (projects), weekly activities or quizzes, and tests in a week or so. However, when the schedule gets too busy, it can be as long as 2 weeks before the grades are assigned. It is the students' responsibility to review the grade details when they become available and follow up for clarifications if needed.

Attendance. For in-class course (and elearning weekly activity & participation via elearning for online course), Attendance Rule & Policy: Please note that if you miss any lectures beyond the 1st week, then automatic actions kick in: (1) Missing the next lecture in the 2nd week will result in an automatic drop of one grade from your final course grade. (2) Missing the entire 2nd week of lecture(s) is an automatic F in the course. So if you are going to miss more than one week of classes (ideally, you should not miss any lecture, but sometimes people switch courses during the first week), then you should not be in the course and you should drop out. Further you should plan to be here for Final Examination Week, as it will be scheduled for this course.

Comet Creed

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."

UT Dallas Syllabus Policies and Procedures

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.

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