

# **COURSE SYLLABUS**

## **COM122: Web Interface Development**

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### **Course Description**

This course provides complete coverage of HTML, CSS, and XML including up-to-date coverage of HTML5 and CSS3 for Web site creation. It includes document enhancement with sound, video, and applets. Describes how Web forms are created and its interaction with a Web server. Included in the course it demonstrates using advanced CSS for designing or for the testing of mobile devices. This course introduces XML and how to create XML documents that include XML and mobile development. Finally it describes document validation against DTDs and schema vocabularies.

### **General Course Information**

Number of Units/Weeks	4/10
#Hours Lecture/#Hours Laboratory/#Hours Homework	40/00/80
Prerequisite(s)	None
Co-requisites(s)	None
Course Developer(s)	Darlene Garcia, B.A. Leticia Rabor M.S.
Date Approved / Last Review	February 2018 / February 2018

### **Learning Outcomes**

- (CLO1) Identify requirements to plan and determine web site structure and associated content using modern techniques and best practices
- (CLO2) Create client-side web applications using modern techniques and best practices
- (CLO3) Use latest web technologies to create web interfaces
- (CLO4) Identify and use the appropriate development technologies, tools, and frameworks for web interface development
- (CLO5) Create simple HTML websites using modern techniques and best practices
- (CLO6) Use CSS to format and layout web page documents
- (CLO7) Validate XML with CSS web applications based on the W3C standards

### **Instructional Methods Employed in this Course**

Assigned project  
Hands-on exercises and labs  
LASA midterm and final  
Lecture / in-class exercises / quick check questions  
Quizzes  
Reading assignments  
Student presentations  
Rubrics

## Information Resources for this Course



### Textbook

Carey, P. (2017). *New Perspectives on HTML5 and CSS3: Comprehensive* (7th Ed.), Boston, MA: Cengage Learning.



### Other Materials

Text editor, current versions of major browsers, XML validating parser, Microsoft Word



### Drawing tools

Microsoft Powerpoint



### Web Site References

World Wide Web Consortium

<http://www.w3.org>

W3 Schools

<http://www.w3schools.com>

WHATWG Community

<http://www.whatwg.org>

## Table/Topics & Assignments

### Types of Assignments:

Lecture: Considered Lecture Hours

Classroom Discussion: Considered Lecture Hours

In Class Critique: Considered Lecture Hours

Delivering Oral Presentations: Considered Lecture Hours

In Class (IC) Exercise: Considered Lecture Hours

Reading: Considered Homework (HW), work done outside of class.

WebClass lesson (non-online courses): Considered HW, work done outside of class

Lab Work: Considered Lab Hours

Quiz, Midterm or Final: Considered Lecture Hours

Week 1						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 1A	Introduction to Course / Getting Started with HTML5	2				
IC EX 1A	Create a Website for a food vendor	2				
HW 1A	Project 1: Case Problem			2	30	Week 2
HW 1B	Read Tutorial 1 (50 pages). Evaluated by HW 1C			5		

HW 1B	15 Review Questions			1	15	Week 2
Total Week 1		4	0	8	45	
Week 2						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 2A	Getting Started with CSS	2				
IC EX 2A	Design a Website for a Fitness Club	2				
HW 2A	Project 2: Case Problem			2	30	Week 3
HW 2B	Read Tutorial 2 (60 pages). Evaluated by HW 2C			6		
HW 2C	15 Review Questions			1	15	Week 3
Total Week 2		4	0	9	45	
Week 3						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 3A	Designing a Page Layout	2				
IC EX 3A	Create a Website for a Chocolatier	2				
HW 3A	Project 3: Case Problem			2	30	Week 4
HW 3B	Read Tutorial 3 (60 pages). Evaluated by HW 3C			6		
HW 3C	15 Review Questions			1	15	Week 4
Total Week 3		4	0	9	45	
Week 4						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 4A	Graphic Design with CSS	2				
IC EX 4A	Create a Graphic Design for a Genealogy Website	2				
HW 4A	Project 4: Midterm Case Study: Requirements Design Document of the Final Project			3	150	Week 5
HW 4B	Read Tutorial 4 (50 pages). Evaluated by HW 4C			5		
HW 4C	15 Review Questions			1	15	Week 5
Total Week 4		4	0	9	165	
Week 5						

Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 5A	Designing for the Mobile Web	1.5				
LEC 5B	Introduction to the Final Project	0.5		See Week 10	See Week 10	Week 10
IC EX 5A	Create a Mobile Website for a Daycare Center	1				Week 5
EXAM 5A	Midterm Exam (Chapters 1-5)	1			150	Week 5
HW 5A	Project 5: Case Problem			2	30	Week 6
HW 5B	Read Tutorial 5 (60 pages). Evaluated by HW 5C			6		
HW 5C	15 Review Questions			1	15	Week 6
Total Week 5		4	0	9	195	
<b>Week 6</b>						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 6A	Working with Tables and Columns	2				
IC EX 6A	Create a Program Schedule for a Radio Station	2				
HW 6A	Project 6: Case Problem			2	30	Week 7
HW 6B	Read Tutorial 6 (55 pages). Evaluated by HW 6C			5.5		
HW 6C	15 Review Questions			1	15	Week 7
Total Week 6		4	0	8.5	45	
<b>Week 7</b>						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 7A	Designing a Web Form	2				
IC EX 7A	Create a Survey Form	2				
HW 7A	Project 7: Case Problem			2	30	Week 8
HW 7B	Read Tutorial 7 (60 pages) Evaluated by HW 7C			6		
HW 7C	15 Review Questions			1	15	Week 8
Total Week 7		4	0	9	45	
<b>Week 8</b>						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due

LEC 8A	Enhancing a Website with Multimedia	2				
IC EX 8A	Work with Sound, Video, and Animation	2				
HW 8A	Project 8: Case Problem			2	30	Week 9
HW 8B	Read Tutorial 8 (66 pages) Evaluated by HW 8C			6.6		
HW 8C	15 Review Questions			1	15	Week 9
Total Week 8		4	0	9.6	45	
<b>Week 9</b>						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 9A	Getting Started with JavaScript	2				
IC EX 9A	Create a Countdown Clock	2				
HW 9A	Project 9: Case Problem			2	30	Week 10
HW 9C	Read Tutorial 9 (58 pages). Evaluated by HW 9C			5.8		
HW 9D	15 Review Questions			1	15	Week 10
Total Week 9		4	0	8.8	45	
<b>Week 10</b>						
Type	Topic/Description	LEC Hours	LAB Hours	HW Hours	Point Value	Due
LEC 8B	Exploring Arrays, Loops, and Conditional Statements	2				
IC EX 10A	Create a Monthly Calendar	1				
EXAM 10A	Final Exam (Chapters 6-10)	1			150	Week 10
HW 10A	Final Project / Presentation (CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7)			5	175	Week 10
Total Week 10		4	0	5	325	

## Course Hours Summary

Week	Topic	LEC Hours	LAB Hours	HW Hours
1	Introduction to Course / Getting Started with HTML5	4	0	8
2	Getting Started with CSS	4	0	9
3	Designing a Page Layout	4	0	9
4	Graphic Design with CSS	4	0	9
5	Designing for the Mobile Web	4	0	9
6	Working with Tables and Columns	4	0	8.5
7	Designing a Web Form	4	0	9
8	Enhancing a Website with Multimedia	4	0	9.6

9	Getting Started with JavaScript	4	0	8.8
10	Exploring Arrays, Loops, and Conditional Statements	4	0	5
Total		40	0	84.9

## Table/Point Breakdown

Week	Assignment	Possible Points	Percent of Grade
1	HW 1A, Project 1	30	3%
1	HW 1C, Review Questions (Tutorial 1)	15	1.5%
2	HW 2A, Project 2	30	3%
2	HW 2C, Review Questions (Tutorial 2)	15	1.5%
3	HW 3A, Project 3	30	3%
3	HW 3C, Review Questions (Tutorial 3)	15	1.5%
4	HW 4A, Project 4 Midterm Case Study: Requirements Design Document	150	15%
4	HW 4C, Review Questions (Tutorial 4)	15	1.5%
5	EXAM 5A, Midterm Exam	150	15%
5	HW 5A, Project 5	30	3%
6	HW 5C, Review Questions (Tutorial 5)	15	1.5%
6	HW 6A, Project 6	30	3%
6	HW 6C, Review Questions (Tutorial 6)	15	1.5%
7	HW 7A, Project 7	30	3%
7	HW 7C, Review Questions (Tutorial 7)	15	1.5%
8	HW 8A, Project 8	30	3%
8	HW 8C, Review Questions (Tutorial 8)	15	1.5%
9	HW 9A, Project 9	30	3%
9	HW 9C, Review Questions (Tutorial 9)	15	1.5%
10	HW 10A, Final Project / Presentation	175	17.5%
10	EXAM 10A, Final Exam	150	15%
Total		1000	100%

## Your Grades for this Course

Your final grade for this course will be based on an assessment by the Instructor of your performance on a number of course activities, which may include objective tests, classroom exercises, laboratory demonstrations, project papers, or other types of activities. The chart below indicates in what activities you will engage, how many possible points can be earned for each activity, and the percentage of your final grade that will be accounted for by each activity.

Students in this course should be graded following Coleman University assessment practices and policies. A point system is used in the University to indicate student performance on various required activities or projects. For this course, it is recommended that points be distributed as follows:

## Coleman University Grade Assignment Policy:

Percent	Letter Grade	Grade Points
94-100	A	4
90-93	A-	3.67
87-89	B+	3.33
84-86	B	3
80-83	B-	2.67
77-79	C+	2.33

74-76	C	2
70-73	C-	1.67
67-69	D+	1.33
64-66	D	1
60-63	D-	0.67
N/A	INC	0
N/A	W	0
60 or above	CR	0
59 or below	NC	0
N/A	I	0
N/A	W	0
N/A	AU	0
N/A	TR	0
N/A	WV	0

Legend	
CR = Credit	NC = No Credit
I = Incomplete	W = Course Withdrawal
AU = Audit	TR = Transfer Credit
WV = Waiver	

## Academic Accommodation / Adjustment Policy:

In accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA), Coleman University offers accommodations to students with documented physical, psychological, and/or cognitive disabilities. Coleman University will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to offer equal educational opportunities to qualified disabled individuals.

To qualify for an academic accommodation under ADA, the student must provide adequate documentation of a disability. Students seeking academic accommodations should contact the campus ADA Coordinator at 858-966-3953 or via email at [ada@coleman.edu](mailto:ada@coleman.edu). The ADA Coordinator will review the documentation provided and verify ADA coverage. Students covered under ADA must meet with the ADA Coordinator at the beginning of every term to determine the appropriate academic accommodations. Failing to meet with the ADA Coordinator at the beginning of every term may impact the availability of accommodations.

After the academic accommodations have been determined, the students' instructors will be notified by the ADA Coordinator. If any problems or concerns regarding the provision of accommodations occur, the student must inform the ADA Coordinator. If the student feels accommodation is not being made appropriately, the student may follow the published Student Grievance Procedures.