**COURSE SYLLABUS**

**COM122: Web Interface Development**

**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 |  |
| **Week 6** | | | | | | |
| 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 |  |
| **Week 7** |  |  |  |  |  |  |
| 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 |  |
| **Week 8** |  |  |  |  |  |  |
| 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 |  |
| **Week 9** |  |  |  |  |  |  |
| 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 |  |
| **Week 10** |  |  |  |  |  |  |
| 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. 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. | | | | | | |