

CS M15W: CLIENT SIDE WEB DEVELOPMENT USING HTML/JAVASCRIPT

Originator

Loay Alnaji

College

Moorpark College

Attach Support Documentation (as needed)

CS M15W_Computer Programming_Moorpark_Analysis_Report.pdf

CS M15W_SurveyedDataReport.docx

CS M15W_SantaMonicaCatalog.pdf

CS M15W_Minutes_1st CS Advisory Meeting_ 4-16-18_Esmaail Nikjeh (3).docx

CS M15W_state approval letter_CCC000608536.pdf

Discipline (CB01A)

CS - Computer Science

Course Number (CB01B)

M15W

Course Title (CB02)

Client Side Web Development Using HTML/JavaScript

Banner/Short Title

ClientSide WebD HTML/JavaScript

Credit Type

Credit

Honors

No

Start Term

Spring 2020

Catalog Course Description

Introduces students to different methodologies used to develop webpages. Explains the syntax and semantics of Hyper Text Markup Language (HTML). Introduces the different tools to create dynamic and static webpages using Cascading Style Sheets (CSS) and JavaScript. Develops written, oral communication and analysis skills in students so they can review and critique web content from a developer's perspective.

Taxonomy of Programs (TOP) Code (CB03)

0707.20 - *Database Design and Administration

Course Credit Status (CB04)

D (Credit - Degree Applicable)

Course Transfer Status (CB05) (select one only)

B (Transferable to CSU only)

Course Basic Skills Status (CB08)

N - The Course is Not a Basic Skills Course

SAM Priority Code (CB09)

C - Clearly Occupational

Course Cooperative Work Experience Education Status (CB10)

N - Is Not Part of a Cooperative Work Experience Education Program

Course Classification Status (CB11)

Y - Credit Course

Educational Assistance Class Instruction (Approved Special Class) (CB13)

N - The Course is Not an Approved Special Class

Course Prior to Transfer Level (CB21)

Y - Not Applicable

Course Noncredit Category (CB22)

Y - Credit Course

Funding Agency Category (CB23)

Y - Not Applicable (Funding Not Used)

Course Program Status (CB24)

1 - Program Applicable

General Education Status (CB25)

Y - Not Applicable

Support Course Status (CB26)

N - Course is not a support course

Field trips

Will not be required

Grading method

Student Option- Letter/Pass

Does this course require an instructional materials fee?

No

Repeatable for Credit

No

Units and Hours

Carnegie Unit Override

No

In-Class

Lecture

Minimum Contact/In-Class Lecture Hours

35

Maximum Contact/In-Class Lecture Hours

35

Activity

Laboratory

Minimum Contact/In-Class Laboratory Hours

52.5

Maximum Contact/In-Class Laboratory Hours

52.5

Total in-Class

Total in-Class

Total Minimum Contact/In-Class Hours

87.5

Total Maximum Contact/In-Class Hours

87.5

Outside-of-Class**Internship/Cooperative Work Experience**

Paid

Unpaid

Total Outside-of-Class**Total Outside-of-Class****Minimum Outside-of-Class Hours**

70

Maximum Outside-of-Class Hours

70

Total Student Learning**Total Student Learning****Total Minimum Student Learning Hours**

157.5

Total Maximum Student Learning Hours

157.5

Minimum Units (CB07)

3

Maximum Units (CB06)

3

Student Learning Outcomes (CSLOs)

Upon satisfactory completion of the course, students will be able to:	
1	apply web development tools to produce websites
2	produce professional webpages using advanced HTML
3	create static and dynamic pages using HTML, JavaScript and XML
4	use forms to read data from user

Course Objectives

Upon satisfactory completion of the course, students will be able to:	
1	analyze existing webpages and recommend improvements.
2	create static and dynamic webpages.
3	create themed webpages by sharing common attributes between different pages within the same website.
4	create websites used to collect data from users and apply different validity check techniques to ensure user enters valid data.
5	apply different techniques to incorporate multimedia and animation into webpages.

Course Content**Lecture/Course Content**

30% - HTML as a web development programming language

30% - Use Javascript to create dynamic and stylish websites

5% - Research and hands-on activities including webpage exploration, webpage analysis, and webpage critique

20% - Creating creative and well-designed websites using CSS

5% - Validate, debug and critique websites and provide suggestions of how to improve them

10% - Exposure to the dynamics of websites and HTML 5 applications

Laboratory or Activity Content

20% - Create static and dynamic HTML pages

15% - Use Javascript to add dynamic content to static HTML pages

10% - Use Javascript to validate user input in forms

10% - Security and ethical concerns in HTML pages

20% - Use Stylesheets to create a single-themed website

15% - Add multimedia to static websites using CSS and Javascript

10% - Incorporate third party components within your HTML page

Methods of Evaluation

Which of these methods will students use to demonstrate proficiency in the subject matter of this course? (Check all that apply):

Problem solving exercises

Skills demonstrations

Methods of Evaluation may include, but are not limited to, the following typical classroom assessment techniques/required assignments (check as many as are deemed appropriate):

Individual projects

Journals

Objective exams

Other (specify)

Skills demonstrations

Other

- Code writing
- Code review
- Classroom discussion
- Participation

Instructional Methodology

Specify the methods of instruction that may be employed in this course

Collaborative group work

Class activities

Distance Education

Instructor-guided interpretation and analysis

Instructor-guided use of technology

Laboratory activities

Lecture

Other (specify)

Small group activities

Specify other method of instruction

- Videos
- Interactive multimedia

Describe specific examples of the methods the instructor will use:

Instructor will use powerpoint to present lecture notes and use customized video presentations to explain topics. Students will also be divided into groups to discuss problem solutions and solve group problems together.

Representative Course Assignments

Writing Assignments

1. Work on different short assignments and class activities such as create a webpage that displays student information, create a portfolio page that shows the student's photo and the title and description of projects the student worked on throughout the year.
2. Create a webpage that displays the family tree, making sure to use images and different fonts and colors.
3. Write a research paper about the weaknesses and strengths of a website; provide suggestions to improve the website chosen.

Critical Thinking Assignments

1. Explain the best practices used in the industry.

2. Explain the different policies, security concerns and ethical issues a developer might encounter when writing code using JavaScript.

Reading Assignments

1. Read hand-outs provided by the instructor regarding latest features in HTML and best web-page design practices, and answer questions about the article.
2. Read and study selected chapters from the textbook and the accompanying lecture notes, then solve problems assigned by the instructor.

Outside Assignments

Representative Outside Assignments

1. Use the library resources to create a report describing security weaknesses that might exist in websites in general.
2. Use the internet to create a report of best HTML programming habits coders must follow when building webpages. Explore different sides of issues such as security and ethics.
3. Select two news websites and compare the different information delivery techniques used; identify which one uses more multimedia, and which one focuses on external links more than internal ones.

Articulation

Equivalent Courses at 4 year institutions

University	Course ID	Course Title	Units
California State University, Long Beach	CECS 110	CECS 110 - Beginning Web Design	3

Equivalent Courses at other CCCs

College	Course ID	Course Title	Units
Napa Valley College	COMS 180	Web Development: HTML	3
Mission College	GDES 045	Web Design With HTML and CSS	3
Reedley College	IS 40A	Web Development with HTML	3
East Los Angeles College	CO SCI 259	Web Development Using HTML\CSS	3
Santa Monica College	CS 81	JavaScript and Dynamic HTML	3

District General Education

A. Natural Sciences

B. Social and Behavioral Sciences

C. Humanities

D. Language and Rationality

E. Health and Physical Education/Kinesiology

F. Ethnic Studies/Gender Studies

Course is CSU transferable

Yes

CSU GE-Breadth

Area A: English Language Communication and Critical Thinking

Area B: Scientific Inquiry and Quantitative Reasoning

Area C: Arts and Humanities

Area D: Social Sciences

Area E: Lifelong Learning and Self-Development

CSU Graduation Requirement in U.S. History, Constitution and American Ideals:

IGETC

Area 1: English Communication

Area 2A: Mathematical Concepts & Quantitative Reasoning

Area 3: Arts and Humanities

Area 4: Social and Behavioral Sciences

Area 5: Physical and Biological Sciences

Area 6: Languages Other than English (LOTE)

Textbooks and Lab Manuals

Resource Type

Textbook

Classic Textbook

Yes

Description

Boehm, Anne, and Zak Ruvalcaba. [Murach's HTML5 and CSS3](#). 4th ed. Mike Murach and Associates, 2018.

Resource Type

Textbook

Classic Textbook

Yes

Description

Robbins, Jennifer. [Learning Web Design: A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics](#). 5th ed. O'Reilly Media, 2018.

Resource Type

Other Resource Type

Description

[Dreamweaver](#). Adobe, 1 ed.

Adobe Dreamweaver is one of the professional tools used in the development market to create static and dynamic pages.

Library Resources

Assignments requiring library resources

Using the Library's print and online resources, research such topics as, compare HTML 4 and HTML 5. Explain the differences in number of new HTML TAGS presented in HTML 5 (compared to HTML 4), change in HTML syntax and any other new features added to the new version of HTML.

Sufficient Library Resources exist

Yes

Distance Education Addendum

Definitions

Distance Education Modalities

Hybrid (51–99% online)

Hybrid (1–50% online)

100% Online

Faculty Certifications

Faculty assigned to teach Hybrid or Fully Online sections of this course will receive training in how to satisfy the Federal and state regulations governing regular effective/substantive contact for distance education. The training will include common elements in the district-supported learning management system (LMS), online teaching methods, regular effective/substantive contact, and best practices.

Yes

Faculty assigned to teach Hybrid or Fully Online sections of this course will meet with the EAC Alternate Media Specialist to ensure that the course content meets the required Federal and state accessibility standards for access by students with disabilities. Common areas for discussion include accessibility of PDF files, images, captioning of videos, Power Point presentations, math and scientific notation, and ensuring the use of style mark-up in Word documents.

Yes

Regular Effective/Substantive Contact

Hybrid (1%–50% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Other DE (e.g., recorded lectures)	Recorded video lectures on specific topics.
E-mail	Instructor will use email communication to help guide students who have questions about the system.

Hybrid (51%–99% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Other DE (e.g., recorded lectures)	Instructor may provide students with recorded lectures that explain the topic of the week.
Synchronous Dialog (e.g., online chat)	Instructor may be available on a certain day or days for an hour or more to meet with students online to chat with them about the course topic
Telephone	Instructor may provide his/her phone number to students where they can leave a voicemail and expect a call back within 24 hours.
E-mail	Instructor will use email communication to help guide students who have questions about the system.

100% online Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Instructor will use a learning tool like CANVAS to create a Question and Answer thread to answer any questions related to the course and will post a Question every week in the discussion threads for students to answer and discuss.

E-mail	Instructor will use email communication to help guide students who have questions about the system.
Other DE (e.g., recorded lectures)	Instructor may provide students with recorded lectures that explain the topic of the week.
Synchronous Dialog (e.g., online chat)	Instructor may be available on a certain day or days for an hour or more to meet with students online to chat with them about the course topic.
Telephone	Instructor may provide his/her phone number to students where they can leave a voicemail and expect a call back within 24 hours.

Examinations

Hybrid (1%–50% online) Modality

Online
On campus

Hybrid (51%–99% online) Modality

Online
On campus

Primary Minimum Qualification

COMPUTER SCIENCE

Review and Approval Dates

Department Chair

01/10/2019

Dean

11/29/2018

Technical Review

01/31/2019

Curriculum Committee

02/05/2019

DTRW-I

09/12/2019

Curriculum Committee

MM/DD/YYYY

Board

10/08/2019

CCCCO

10/12/2019

Control Number

CCC000608536

DOE/accreditation approval date

MM/DD/YYYY