Course Outline of Record Report

10/14/2021

DMAC111: Fundamentals of Web Development

General Information

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Course Code (CB01): DMAC111

Course Title (CB02): Fundamentals of Web Development

Department:Business Information Technolog

Proposal Start: Fall 2022

TOP Code (CB03): (0614.30) Website Design and Development

SAM Code (CB09): Clearly Occupational

Distance Education Approved: Yes

Course Control Number (CB00):CCC000547073Curriculum Committee Approval Date:11/01/2019Board of Trustees Approval Date:12/12/2019

External Review Approval Date: 12/12/2019

Course Description:

This entry-level course provides students with the skills to create web pages in Hypertext Markup
Language (HTML) and Cascading Style Sheets (CSS) using a text editor. This course emphasizes
current web standards which include code validation, semantics, and separating content from
style. Students also learn how to select a web hosting provider, purchase a domain name, and

construct a web site with WordPress.

Submission Type: New Course Materials

Mandatory Revision

Update for Program Review. This course was assessed in Fall 2019 and there are no impacts on this

course revision.

Author: No value

Faculty Minimum Qualifications

Master Discipline Preferred:

• Computer Science

Alternate Master Discipline Preferred:

No value

Bachelors or Associates Discipline Preferred:

 Computer Information Systems (Computer network installation, microcomputer technology, computer applications)

• Multimedia

Additional Bachelors or Associates Discipline

Preferred:

No value

Course Development Options

Basic Skills Status (CB08)	Course Special Class Status (CB13)	Grade Options
Course is not a basic skills course.	Course is not a special class.	Letter Grade MethodsPass/No Pass
Allow Students to Gain Credit by Exam/Challenge	Allowed Number of Retakes	Course Prior To College Level (CB21)
	0	Not applicable.
Rationale For Credit By Exam/Challenge	Retake Policy Description	Allow Students To Audit Course
Rationale For Credit By Exam/Challenge No value	Retake Policy Description Type: Non-Repeatable Credit	Allow Students To Audit Course
, ,	, ,	Allow Students To Audit Course

Associated Programs		
Course is part of a program (CB24) Associated Program	Award Type	Active
CC Web Professional	Certificate of Achievement	Summer 2018
CC Web Professional	A.S. Degree Major	Summer 2018
Digital Media and Marketing	Certificate of Achievement	Fall 2020
Web Professional Associate of Science (In Development)	A.S. Degree Major	Fall 2022
Web Professional Certificate of Achievement (In Development)	Certificate of Achievement	Fall 2022

Transferability & Gen. Ed. Options		
Course General Education Status (CB25)		
Υ		
Transferability	Transferability Status	
Transferable to CSU only	Approved	

Units and Hours	

Summary Minimum Credit Units (CB07) 3 **Maximum Credit Units (CB06)** 3 **Total Course In-Class (Contact)** 90 Hours **Total Course Out-of-Class** 72 Hours **Total Student Learning Hours** 162 **Faculty Load Credit / Non-Credit Options Course Credit Status (CB04) Course Non Credit Category (CB22) Non-Credit Characteristic** Credit - Degree Applicable Credit Course. No Value **Course Classification Status (CB11) Funding Agency Category (CB23)** Cooperative Work Experience Education Status (CB10) Credit Course. Not Applicable. Variable Credit Course **Weekly Student Hours Course Student Hours** Out of Classs In Class **Course Duration (Weeks)** 18 2 Lecture Hours Hours per unit divisor 54 **Laboratory Hours** 3 0 Course In-Class (Contact) Hours **Activity Hours** 0 0 Lecture 36 Laboratory 54 Activity 0 Total 90 **Course Out-of-Class Hours** Lecture 72 Laboratory 0 Activity 0 Total 72 **Time Commitment Notes for Students** No value

Faculty Load

Extra Duties: 0 Faculty Load: 0

Units and Hours - Weekly Specialty Hours			
Activity Name	Туре	In Class	Out of Class
No Value	No Value	No Value	No Value

Pre-requisites, Co-requisites, Anti-requisites and Advisories

Advisory

ENGLC101 - Freshman Composition

In DMA C111, students are expected to analyze college-level reading material and write clearly structured critiques. Comprehending, evaluating, and organizing information, as well as communicating effectively in writing are all skills taught in English C101 Freshman Composition. <u>Outcomes</u>

- Read, analyze, and evaluate a variety of university-level texts for content, context, and rhetorical merit with consideration of tone, audience, and purpose.
- Integrate the ideas of others through paraphrasing, summarizing, and quoting without plagiarism.
- Find, evaluate, analyze, interpret, and see the relations among primary and secondary sources, incorporating them into written essays using accurate MLA documentation and formatting.
- Proofread and edit essays for presentation so they exhibit no disruptive errors in English grammar, usage, or punctuation.

AND

Advisory

BSOTC075 - Computer Literacy

Students are expected to have basic computer literacy and be able to perform computer start up and shut down procedures correctly; use computer input and output devices, such as the keyboard, mouse, stylus, trackball, or printer with proficiency; access and manage login accounts and documents effectively, including downloading, creating, naming, retrieving, and decompressing files and folders with an awareness of file size, location of saved files and folders, and available space on storage media and a clear distinction between various campus, email, and course login accounts; perform editing tasks, such as copying, cutting, and pasting of content and applying spell checking; send an outgoing e-mail with an attachment, and open an incoming e-mail and its attachment; search and navigate the Internet and other types of media and environments easily; and be aware of the need to evaluate Internet content for relevance, authenticity, authority, and currency.

Outcomes

- Perform basic computer tasks using hardware and software functions including startup, login, shutdown, and basic input/output procedures.
- Recognize and use programs to create and edit introductory word processing, spreadsheet, and presentation software files, including MS
 Office.
- Access and manage login accounts and documents effectively, including downloading, creating, naming, copying, deleting, retrieving, and
 compressing/decompressing files and folders with an awareness of file size, location of saved files and folders, and available space on
 storage media, all with a clear distinction between various email, and course login accounts.
- · Open and use an email account including sending and receiving email with attachments, saving files, and managing the inbox.
- Search and navigate the Internet and other types of media environments with an awareness of relevance, authenticity, authority, and currency.

Entrance Skills	
Entrance Skills	Description
No value	No value

Limitations on Enrollment	
Limitations on Enrollment	Description
No value	No value

Specifications	
Methods of Instruction	
Methods of Instruction	Project-based learning
Rationale	Students apply coding skills to a semester-long web site project, to which they add features each week.
Methods of Instruction	Peer analysis, critique & feedback
Rationale	Students provide feedback and critique to each other in asynchronous discussion forums.
Methods of Instruction	Problem Solving
Rationale	Students solve design problems that are typical of projects in the workplace.
Methods of Instruction	Lecture
Rationale	Students read instructor lectures and watch video lectures to learn concepts and techniques that are needed for assignments.
Methods of Instruction	Laboratory
Rationale	Students practice techniques and tools through formative exercises, which are posted to asynchronous discussion for instructor review.
Methods of Instruction	Demonstration
Rationale	Students watch captioned video content to observe the use of software tools and techniques.
Methods of Instruction	Discussion
Rationale	Students post their work to allow for instructor and peer review.

Methods of Instruction Audiovisual

Rationale Students watch captioned video content to observe the use of software tools and techniques.

Assignments

A. Textbook readings (Example: students read chapter on site validation)

B. Online reading assignments (Example: students study web page with complete list of CSS properties.)

C. HTML/CSS assignments Example: Students create an external CSS to control the appearance of text on a web page.

Methods of Evaluation	Rationale
Project	A. HTML/CSS assignments Example: Students create an external CSS to control the appearance of text on a web page.
Tests	B. Exam Example: Students complete a midterm exam relating to HTML syntax.
Participation	C. Discussions Example: Students provide feedback on other students' assignments by running validation reports and explaining errors.
Distance Education Description: how outcomes are evaluated	The evaluation criteria and rigor are identical, regardless of delivery mode.

Equipment

No special equipment is needed.

Textbooks

Author	Title	Publisher	Date	ISBN
Frain, B.	Responsive Web Design with HTML5 and CSS	Packt Publishing	2020	978-1839211560

Other Instructional Materials

No Value

Materials Fee

No

Learning Outcomes and Objectives

Course Objectives

No value

CSLOs

Use valid HTML syntax to construct web pages.

Expected SLO Performance: 75.0

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Certificate of Achievement

3. Use valid markup, cascading style sheets, semantic encoding, accessibility compliance, and error-free scripting in the creation of Web content. Assessment: This will be assessed and scored with an exam.

Use HTML tags according to semantic function.

Expected SLO Performance: 75.0

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3. Use valid markup, cascading style sheets, semantic encoding, accessibility compliance, and error-free scripting in the creation of Web content. Assessment: This will be assessed and scored with an exam.

Apply valid CSS to control page layout and aesthetic style.

Expected SLO Performance: 75.0

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3. Use valid markup, cascading style sheets, semantic encoding, accessibility compliance, and error-free scripting in the creation of Web content. Assessment: This will be assessed and scored with an exam.

Install, add content, manage settings, and configure plugins in a WordPress site installation.

Expected SLO Performance: 75.0

Business Information Technolog Web Professional Certificate of Achievement 3. Use valid markup, cascading style sheets, semantic encoding, accessibility compliance, and error-free scripting in the creation of Web content. Assessment: This will be assessed and scored with an exam.

Outline

Course Outline

- Web Technologies; History; Standards; and Best Practices
 - Web Technologies
 - Development of HTML5
 - Web Standards
 - 1. Validation
 - 2. Accessibility (WCAG, Section 508)
 - Development best practices
 - 1. Mobile First Design/Responsive Design
 - 2. File organization (server, cloud storage)
- HTML
 - DOCTYPE
 - Semantic Content Types and Elements
 - 1. Root
 - 2. Metadata
 - 3. Sections
 - 4. Block Text
 - 5. Inline/Phrasing Text
 - 6. Non-Text Content
 - 7. Tabular Data
 - 8. Forms
 - 9. Comments
- Cascading Style Sheets
 - Use
- 1. Browser
- 2. Inline
- 3. Embedded/Internal
- 4. External
- Selectors
 - 1. Type

- 2. ID
- 3. Class
- 4. Descendent
- 5. Attribute
- Properties
 - 1. Text Properties
 - 2. Background Properties
 - 3. Border Properties
 - 4. Box Model Theory and Properties
 - 5. Position Properties
- Domain Registration
 - Searching for available domains
 - Purchasing a domain
 - Transferring DNS
- Web Hosting
 - Choosing a Web Host
 - The cPanel
 - 1. File Manager
 - 2. Web Applications
 - 3. Databases
 - 4. Email
 - 5. Metrics
 - 6. Cron Jobs
- Content Management Systems (CMS)
 - Description and Advantages
 - Comparison Between CMSs
 - WordPress
 - 1. Installation
 - Download Current Version
 - Create Database and User
 - Upload WordPress
 - Install WordPress
 - 2. Dashboard
 - Posts
 - Media
 - Pages
 - Comments
 - Appearance
 - Plugins
 - Users
 - Settings
 - Upgrading
 - 3. Themes
 - Choosing a theme
 - Modifying theme settings
 - Custom CSS

Lab Outline

- HTML
 - DOCTYPE
 - Validation
 - Semantic Content Types and Elements
 - 1. Root
 - 2. Metadata
 - 3. Sections
 - 4. Block Text
 - 5. Inline/Phrasing Text
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 - Use
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- 2 Inline
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Delivery Methods

Delivery Method: Please list all that apply -Face to face -Online (purely online no face-to-face contact) -Online with some required face-to-face meetings ("Hybrid") -Online course with on ground testing -iTV – Interactive video = Face to face course with significant required activities in a distance modality -Other

- Face to face
- Online (purely online no face-to-face contact)
- Online with some required face-to-face meetings ("Hybrid")
- iTV Interactive video = Face to face course with significant required activities in a distance modality

Rigor Statement: Assignments and evaluations should be of the same rigor as those used in the on-ground course. If they are not the same as those noted in the COR on the Methods of Evaluation and out-of-class assignments pages, indicate what the differences are and why they are being used. For instance, if labs, field trips, or site visits are required in the face to face section of this course, how will these requirements be met with the same rigor in the Distance Education section? Describe the ways in which instructor-student contact and student-student contact will be facilitated in the distance ed environments.

All assignments in distance education course sections of DMA C111 are of the same rigor as those in the on-ground section, except that students in purely online sections will submit all of their assignments virtually. Instructor evaluation of student work in distance education course sections is the same as in the on-ground course section, except that evaluation of student work in the online version is presented virtually. Instead of onsite lectures, hybrid and online courses use a variety of methods including, but not limited to videos, and written lecture notes. Students will interact with the instructor and other students via discussion forums or similar methods.

Good practice requires both asynchronous and synchronous contact for effective contact. List the methods expected of all instructors teaching the course. -Learning Management System -Discussion Forums -Message -Other Contact -Chat/Instant Messaging -E-mail - Face-to-face meeting(s) -Newsgroup/Discussion Board -Proctored Exam -Telephone -iTV - Interactive Video -Other

- Discussion Forums
- Message
- E-mail
- Other

Software and Equipment: What additional software or hardware, if any, is required for this course purely because of its delivery mode? How is technical support to be provided?

Students will need their own computer, but greater than average capacity is not necessary. All software that is used is open source.

Accessibility: Section 508 of the Rehabilitation Act requires access to the Federal government's electronic and information technology. The law covers all types of electronic and information technology in the Federal sector and is not limited to assistive technologies used by people with disabilities. It applies to all Federal agencies when they develop, procure, maintain, or use such technology. Federal agencies must ensure that this technology is accessible to employees and the public to the extent it does not pose an "undue burden". I am using -iTV—Interactive Video only -Learning management system -Publisher course with learning management system interface.

• Learning management system

Class Size: Good practice is that section size should be no greater in distance ed modes than in regular face-to-face versions of the course. Will the recommended section size be lower than in on-ground sections? If so, explain why.

The recommended section size for online courses is not lower than on-ground sections.

Emergency Distance Education Options The course will operate in remote delivery mode when all or part of the college service area is under an officially declared city, county, state, or federal state of emergency, including (check all that apply) - Online including all labs/activity hours - Hybrid with online lecture and onsite lab/activity hours - Correspondence education in high school and prison facilities - None. This course will be cancelled or paused if it cannot be held fully onsite.

• Online including all labs/activity hours