Montgomery County Community College
CIS 212
Advanced HTML and CSS
3-2-2

COURSE DESCRIPTION:
This course will provide advanced knowledge of Hyper Text Markup Language (HTML) and Cascading Style Sheets (CSS) to include the breadth of information needed to start creating the next generation of HTML websites by covering the full new HTML ecosystem. The extended usage of CSS that is required for proficiency in all core aspects of modern website creation. These skills and knowledge can lead to jobs like front-end engineer or designer, designer/developer, User Interface or app designer, web editor, web project manager and small web business owner.

PREREQUISITE(S):
CIS 114 Web Design and Development

CO-REQUISITE(S):
None

Upon successful completion of this course, the student will be able to:

LEARNING OUTCOMES:	LEARNING ACTIVITIES	EVALUATION METHODS
1. Develop web sites using advanced HTML and CSS features.	Lecture/Discussion AV/Multimedia Materials Hands on Labs Homework Assignments Research	Discussion/Questions Research presentations Quiz
2. Utilize the full HTML and CSS ecosystem.	Lecture/Discussion AV/Multimedia Materials Hands on Labs Homework Assignments Assigned readings Research	Discussion/Questions Research presentations Quiz
3. Implement templates and frameworks to accelerate web development.	Lecture/Discussion AV/Multimedia Materials Hands on Labs Homework Assignments Assigned readings Research	Discussion/Questions Research presentations Quiz

At the conclusion of each semester/session, assessment of the learning outcomes will be completed by course faculty using the listed evaluation method(s). Aggregated results will be submitted to the Associate Vice President of Academic Affairs. The benchmark for each learning outcome is that *70% of students will meet or exceed outcome criteria.*

SEQUENCE OF TOPICS:
1. Using HTML div tags and HTML5 structure elements
2. Detailed Positioning and Complex Sessions
3. Using floated elements, absolute positioning and CSS table layout
4. Using fluid, fixed and jello layouts
5. Using Advanced CSS Technologies
6. Responsive Web Design
7. Feature support
8. Performance and Organization
9. Preprocessors and Transforms
10. Transitions and Animations
11. Designing for Mobile Devices
12. Extending Semantics and Accessibility
13. Discuss the difference between a framework (such as Bootstrap) and a content management system (such as WordPress).
14. Introduction to a basic implementation using frameworks and content management systems.

LEARNING MATERIALS:

Robson, Elisabeth. (2013) Head First HTML and CSS (2nd ed) SYBEX, ISBN# 978-0596159900

Howe, Shay. (2015) Learn to code Advanced HTML and CSS
http://learn.shayhowe.com/advanced-html-css/

Additional Resources:
HTML and CSS: Design and Build Websites - 1118871642
https://www.freecodecamp.org/
https://www.w3schools.com/html/default.asp
https://developer.mozilla.org/en-US/docs/Learn/HTML/Introduction_to_HTML/Getting_started
https://thimble.mozilla.org/en-US (Online editor similar to CodePen, with live element highlighting)

COURSE APPROVAL:
Prepared by: Anil Datta   Date: 11/6/2015
VPAA/Provost or designee Compliance Verification:
            Victoria L. Bastecki-Perez, Ed.D.   Date: 12/2015

Revised by: Jason Wertz, Matt Krause and Marie Hartlein   Date: 10/2019
Provost or designee Compliance Verification: Date: 2/26/2020

This course is consistent with Montgomery County Community College's mission. It was developed, approved and will be delivered in full compliance with the policies and procedures established by the College.