Washtenaw Community College Comprehensive Report

WEB 210 Web Development II Effective Term: Fall 2023

Course Cover

College: Business and Computer Technologies **Division:** Business and Computer Technologies Department: Digital Media Arts (new) **Discipline:** Web Design and Development **Course Number: 210** Org Number: 14500 Full Course Title: Web Development II Transcript Title: Web Development II Is Consultation with other department(s) required: No Publish in the Following: College Catalog, Time Schedule, Web Page Reason for Submission: Three Year Review / Assessment Report **Change Information: Course description Outcomes/Assessment Objectives/Evaluation** Rationale: Updates are being made based on course assessment. Proposed Start Semester: Fall 2023 Course Description: In this course, students learn advanced front-end coding and also are introduced to

JavaScript and the DOM. The topics covered include media queries for responsive design, accessible web development using ARIA, CSS pre-processors, and front-end frameworks. Students will write valid, semantically accurate and accessible HTML5 code and will learn the basics of unobtrusive JavaScript.

Course Credit Hours

Variable hours: No Credits: 4 Lecture Hours: Instructor: 60 Student: 60 Lab: Instructor: 0 Student: 0 Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 60 Student: 60 Repeatable for Credit: NO Grading Methods: Letter Grades Audit Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

<u>College-Level Reading and Writing</u>

College-level Reading & Writing

College-Level Math

Requisites Prerequisite WEB 110 minimum grade "C"

General Education

General Education Area 7 - Computer and Information Literacy Assoc in Arts - Comp Lit Assoc in Applied Sci - Comp Lit Assoc in Science - Comp Lit

Request Course Transfer Proposed For:

Student Learning Outcomes

1. Implement HTML5 tags and attributes for page layout, with consideration given to proper document semantics, indexing, and performance.

Assessment 1

Assessment Tool: Outcome-related portion of the relevant project Assessment Date: Fall 2025 Assessment Cycle: Every Three Years Course section(s)/other population: All Number students to be assessed: All How the assessment will be scored: Departmentally-developed rubric Standard of success to be used for this assessment: At least 80% of the students will achieve an average of 75% or higher in the rubric area relevant to this outcome. Who will score and analyze the data: Departmental faculty

2. Implement CSS properties and values used in page layout, responsive design, and print-friendly output.

Assessment 1

Assessment Tool: Outcome-related portion of the relevant project Assessment Date: Fall 2025 Assessment Cycle: Every Three Years Course section(s)/other population: All Number students to be assessed: All How the assessment will be scored: Departmentally-developed rubric Standard of success to be used for this assessment: At least 80% of the students will achieve an average of 75% or higher in the rubric area relevant to this outcome. Who will score and analyze the data: Departmental faculty

3. Implement modern accessibility markup and techniques.

Assessment 1

Assessment Tool: Outcome-related portion of the relevant project Assessment Date: Fall 2025 Assessment Cycle: Every Three Years Course section(s)/other population: All Number students to be assessed: All How the assessment will be scored: Departmentally-developed rubric Standard of success to be used for this assessment: At least 80% of the students will achieve an average of 75% or higher in the rubric area relevant to this outcome. Who will score and analyze the data: Departmental faculty

4. Create valid graphical web page layouts that properly render cross-browser and cross-platform. Assessment 1

Assessment Tool: Outcome-related portion of the relevant project Assessment Date: Fall 2025 Assessment Cycle: Every Three Years Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: At least 80% of the students will achieve an average of 75% or higher in the rubric area relevant to this outcome.

Who will score and analyze the data: Departmental faculty

5. Write unobtrusive JavaScript to modify document behavior and appearance.

Assessment 1

Assessment Tool: Outcome-related portion of the relevant project

Assessment Date: Fall 2025

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: At least 80% of the students will achieve an average of 75% or higher in the rubric area relevant to this outcome.

Who will score and analyze the data: Departmental faculty

Course Objectives

- 1. Implement the HTML5 tags and attributes used in advanced coding. These include accessible forms and accessible data tables.
- 2. Create stylesheets using a CSS pre-processor.
- 3. Implement ARIA in web pages to enhance accessibility.
- 4. Implement JavaScript to control web page behavior and appearance.
- 5. Implement microdata to improve web page indexing, as well as other optimizations that improve search engine ranking.
- 6. Implement media-specific CSS for responsive designs and print-friendly output.
- 7. Implement code optimizations to improve performance / rendering speed.
- 8. Implement CSS animations using keyframes.
- 9. Implement CSS custom properties.
- 10. Implement layouts using flexbox.
- 11. Implement layouts using grid.
- 12. Implement layouts using a front-end framework.
- 13. Implement a JavaScript library.
- 14. Access the Document Object Model via JavaScript.
- 15. Add interactivity to a web page through event listeners.

New Resources for Course

Course Textbooks/Resources

Textbooks Manuals Periodicals Software

Equipment/Facilities

Level III classroom Computer workstations/lab

Reviewer

Action

<u>Date</u>

Faculty Preparer:

Jason Withrow

Faculty Preparer

Oct 15, 2022

Department Chair/Area Director:

2/10/23, 12:25 PM	https://www.curricunet.com/washtenaw/reports/course_outline_HTML.cfm?courses_id=11465		
Jason Withrow	Recommend Approval	Oct 16, 2022	
Dean:			
Eva Samulski	Recommend Approval	Nov 01, 2022	
Curriculum Committee Ch	air:		
Randy Van Wagnen	Recommend Approval	Feb 08, 2023	
Assessment Committee Ch	air:		
Shawn Deron	Recommend Approval	Feb 08, 2023	
Vice President for Instruct	ion:		
Victor Vega	Approve	Feb 09, 2023	

Washtenaw Community College Comprehensive Report

WEB 210 Web Development II Effective Term: Spring/Summer 2015

Course Cover

Division: Business and Computer Technologies Department: Digital Media Arts Discipline: Web Design and Development Course Number: 210 Org Number: 14500 Full Course Title: Web Development II Transcript Title: Web Development II Is Consultation with other department(s) required: No Publish in the Following: College Catalog , Time Schedule , Web Page Reason for Submission: Course Change Change Information: Course description Outcomes/Assessment Objectives/Evaluation

Rationale: Course is being updated to reflect changing industry standards and the skillset required for entry-level Web developers.

Proposed Start Semester: Spring/Summer 2015

Course Description: In this course, students learn advanced front-end coding and also are introduced to JavaScript and the DOM. The topics covered include media queries for responsive design, accessible web development using ARIA, CSS pre-processors, and front-end frameworks. Students will write valid, semantically accurate and accessible HTML5 code and will learn the basics of unobtrusive JavaScript. This course contains material previously taught in INP 170.

Course Credit Hours

Variable hours: No Credits: 4 Lecture Hours: Instructor: 60 Student: 60 Lab: Instructor: 0 Student: 0 Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 60 Student: 60 Repeatable for Credit: NO Grading Methods: Letter Grades Audit Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

<u>Requisites</u> Prerequisite WEB 110 minimum grade "C" or

Prerequisite INP 150 minimum grade "C" or Prerequisite INP 150 test minimum score of 70% or Prerequisite WEB 110 test minimum score of 70%

General Education

General Education Area 7 - Computer and Information Literacy Assoc in Arts - Comp Lit Assoc in Applied Sci - Comp Lit Assoc in Science - Comp Lit

<u>Request Course Transfer</u> Proposed For:

Student Learning Outcomes

1. Identify the HTML5 tags and attributes used in page layout, accessible markup and media-specific implementation as it regards to HTML5.

Assessment 1

Assessment Tool: Final Project Assessment Date: Fall 2017 Assessment Cycle: Every Three Years Course section(s)/other population: All Number students to be assessed: All How the assessment will be scored: Departmentally-developed rubric Standard of success to be used for this assessment: At least 80% of the students will achieve an overall average of 75% or higher. Who will score and analyze the data: Departmental faculty

2. Identify the CSS properties and values used in page layout and advanced styling.

Assessment 1

Assessment Tool: Final Project Assessment Date: Fall 2017 Assessment Cycle: Every Three Years Course section(s)/other population: All Number students to be assessed: All How the assessment will be scored: Departmentally-developed rubric Standard of success to be used for this assessment: At least 80% of the students will achieve an overall average of 75% or higher. Who will score and analyze the data: Departmental faculty

3. Implement modern accessibility techniques.

Assessment 1

Assessment Tool: Final Project Assessment Date: Fall 2017 Assessment Cycle: Every Three Years Course section(s)/other population: All Number students to be assessed: All How the assessment will be scored: Departmentally-developed rubric https://www.curricunet.com/washtenaw/reports/course_outline_HTML.cfm?courses_id=9079

Standard of success to be used for this assessment: At least 80% of the students will achieve an overall average of 75% or higher.

Who will score and analyze the data: Departmental faculty

4. Create valid graphical web page layouts that properly render cross-browser and cross-platform using a variety of techniques, including implementing some layouts in front-end frameworks.

Assessment 1

Assessment Tool: Final Project Assessment Date: Fall 2017 Assessment Cycle: Every Three Years Course section(s)/other population: All Number students to be assessed: All How the assessment will be scored: Departmentally-developed rubric Standard of success to be used for this assessment: At least 80% of the students will achieve an overall average of 75% or higher. Who will score and analyze the data: Departmental faculty

5. Write basic JavaScript to modify document behavior and appearance.

Assessment 1

Assessment Tool: Final Project Assessment Date: Fall 2017 Assessment Cycle: Every Three Years Course section(s)/other population: All Number students to be assessed: All How the assessment will be scored: Departmentally-developed rubric Standard of success to be used for this assessment: At least 80% of the students will achieve an overall average of 75% or higher. Who will score and analyze the data: Departmental faculty

Course Objectives

- 1. Implement the HTML5 tags and attributes used in advanced coding. These include: accessible forms, accessible data tables, and media-specific CSS for responsive designs.
- 2. Create web pages using a CSS pre-processor and also involving a front-end framework.
- 3. Implement ARIA in web pages to enhance accessibility.
- 4. Implement JavaScript to control web page behavior and appearance.

New Resources for Course

Course Textbooks/Resources

Textbooks Manuals Periodicals Software

Equipment/Facilities

Level III classroom Computer workstations/lab

<u>Reviewer</u>	Action	<u>Date</u>
Faculty Preparer:		
Jason Withrow	Faculty Preparer	Jan 08, 2015
Department Chair/Area Director:		
Jason Withrow	Recommend Approval	Jan 09, 2015

https://www.curricunet.com/washtenaw/reports/course_outline_HTML.cfm?courses_id=9079

Dean:		
Kimberly Hurns	Recommend Approval	Jan 13, 2015
Curriculum Committee Chair:		
Kelley Gottschang	Recommend Approval	Feb 10, 2015
Assessment Committee Chair:		
Michelle Garey	Recommend Approval	Feb 11, 2015
Vice President for Instruction:		
Bill Abernethy	Approve	Feb 16, 2015