

# COURSE OUTLINE: CSD212 - WEB SCRIPTING LANG

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Approved: Corey Meunier, Chair, Technology and Skilled Trades

Course Code: Title	CSD212: WEB SCRIPTING LANGUAGES			
Program Number: Name	2090: COMPUTER PROGRAMMER			
Department:	COMPUTER STUDIES			
Semesters/Terms:	20W			
Course Description:	Students will be writing comprehensive cross-browser compatible client-side JavaScript applications. The course content will focus on using JavaScript to manipulate and enhance well-formed web pages. Students will learn JavaScript syntax and will be introduced to standard datatypes and classes available in modern client environments. They will also be introduced to event handling, first-class functions, and object-based programming using JavaScript prototypes. A significant portion of the course focuses on using the Document Object Model to create dynamic web pages. Students will learn debugging techniques using modern web developer tools.			
Total Credits:	4			
Hours/Week:	4			
Total Hours:	0			
Prerequisites:	CSD120			
Corequisites:	There are no co-requisites for this course.			
This course is a pre-requisite for:	CSD223, CSD320			
Vocational Learning Outcomes (VLO's) addressed in this course:	2090 - COMPUTER PROGRAMMER			
	VLO 1 Use documented solutions to troubleshoot problems associated with software installation and customization.			
Please refer to program web page for a complete listing of program outcomes where applicable.	VLO 2 Develop, test, document, deploy, and maintain secure program code based on specifications.			
	VLO 4 Apply knowledge of networking concepts to develop, deploy, and maintain program code.			
Essential Employability Skills (EES) addressed in this course:	EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience.			
	EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication.			
	EES 4 Apply a systematic approach to solve problems.			
	EES 5 Use a variety of thinking skills to anticipate and solve problems.			
	EES 6 Locate, select, organize, and document information using appropriate technology and information systems.			
	EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.			

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#### Course Evaluation:

Passing Grade: 50%, D

### Other Course Evaluation & Assessment Requirements:

Quizzes & Tests 60% Assignments 40% 100%

#### Grade

Definition Grade Point Equivalent

A+90 - 100% 4.00 A 80 - 89% B 70 - 79% 3.00

C 60 - 69% 2.00

D 50 - 59% 1.00

F (Fail)below 50% 0.00

CR (Credit) Credit for diploma requirements has been awarded.

S Satisfactory achievement in field /clinical placement or non-graded subject area.

U Unsatisfactory achievement in field/clinical placement or non-graded subject area.

X A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.

NR Grade not reported to Registrar's office.

W Student has withdrawn from the course without academic penalty.

#### OTHER EVALUATION CONSIDERATIONS

- 1. In order to pass this course the student must obtain an overall test/guiz average of 50% or better, as well as, an overall assignment average of 50% or better. A student who is not present to write a particular test/quiz, and does not notify the professor beforehand of their intended absence, may be subject to a zero grade on that test/quiz.
- 2. There will be no supplemental or make-up guizzes/tests in this course unless there are extenuating circumstances.
- 3. Assignments must be submitted by the due date according to the specifications of the professor. Late assignments will normally be given a mark of zero. Late assignments will only be marked at the discretion of the professor in cases where there were extenuating circumstances.
- 4. Any assignment/projects submissions, deemed to be copied, will result in a zero grade being assigned to all students involved in that particular incident.
- 5. It is the responsibility of the student to ask the professor to clarify any assignment requirements.
- 6. The professor reserves the right to modify the assessment process to meet any changing needs of the class.

## **Books and Required** Resources:

JavaScript The Web Warriors Series by Sasha Vodnik and Don Gosselin

Edition: 6th

ISBN: ISBN-13: 978-1-305-07844-4

## Course Outcomes and **Learning Objectives:**

Course Outcome 1	Learning Objectives for Course Outcome 1		
1. Introduction to JavaScript	1.1 Describe the differences between client-side and		

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	server-side scripting 1.2 Understand the components of a JavaScript statement Add basic JavaScript code to your web pages 1.3 Structure your JavaScript programs		
Course Outcome 2	Learning Objectives for Course Outcome 2		
2. Functions, Data Types and Operators	2.1 Use functions to organize your JavaScript code     2.2 Use expressions and operators     2.3 Identify the order of operator precedence in an expression		
Course Outcome 3	Learning Objectives for Course Outcome 3		
3. Building Arrays and Control structures	3.1 Store data in arrays 3.2 Use while statements, do/while statements, and for statements to repeatedly execute code 3.3 Use continue statements to restart looping statements 3.4 Use if statements, if/else statements, and switch statements to make decisions 3.5 Nest one if statement in another		
Course Outcome 4	Learning Objectives for Course Outcome 4		
4. Debugging and Error Handling	4.1 Recognize error types 4.2 Trace errors with dialog boxes and the console 4.3 Use comments to locate bugs 4.4 Trace errors with debugging tools 4.5 Write code to respond to exceptions and errors		
Course Outcome 5	Learning Objectives for Course Outcome 5		
5. The Document Object Model (DOM) and DHTML	5.1 Access elements by id, tag name, class, name, or selector 5.2 Access element content, CSS properties, and attributes 5.3 Add and remove document nodes 5.4 Create and close new browser tabs and windows with an app 5.5 Use the setTimeout() and setInterval() methods to specify a delay or a duration  • Use the History, Location, Navigation, and Screen objects to manipulate the browser window		
Course Outcome 6	Learning Objectives for Course Outcome 6		
6. Enhancing and Validating Forms	6.1 Enhance form usability with JavaScript 6.2 Customize browser-based HTML validation 6.3 Implement custom validation to check for errors and display error messages		
Course Outcome 7	Learning Objectives for Course Outcome 7		
7. Object Oriented JavaScript	7.1 Explain basic concepts related to object-oriented programming 7.2 Use the Date, Number, and Math objects 7.3 Define your own custom JavaScript objects		
Course Outcome 8	Learning Objectives for Course Outcome 8		
8. Manipulating Data in Strings and Arrays	8.1 Manipulate strings with properties and methods of the String object 8.2 Create regular expressions and use them to validate user input 8.3 Manipulate arrays with properties and methods of the Array		

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			object 8.4 Conv and JSO	ert between strings and arrays, and between strings N
Evaluation Process and Grading System:	Evaluation Type		n Weight	
	Labs Tests	60%		
Date:	August 27, 2019	1		
Addendum:	Please refer to the course outline addendum on the Learning Management System for further information.			

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