



## MASTER COURSE OUTLINE

A. CPRO 1625 JavaScript and jQuery

B. Course Description:

JavaScript and jQuery are popular programming languages used to add interactive behavior and function to web pages. JavaScript topics covered in the course include programming concepts, controlling program flow, debugging and the Document Object Model (DOM). jQuery is a JavaScript library that can be used to quickly create tooltips, dropdown menus, slideshows and other special effects. Explore the exciting interactive options available with JavaScript and jQuery.

Prerequisites: CPRO 1600. This course is part of the Computer Technology program which is an accredited program in World Organization of Webmaster (WOW) Professional Academy. Prerequisites: CPRO1600  
**(3 Cr – 3 lect, 0 lab)**

C. **\*\*Core Theme: Critical Thinking**

D. MAJOR CONTENT AREAS:

- Intro to JavaScript
- Programming with JavaScript
- Functions, operators and data types
- Arrays, loops, and conditional statements
- Debugging and error handling
- Working with the DOM
- Introduction to jQuery
- jQuery syntax
- jQuery selectors
- jQuery events and special effects

E. GOAL TYPES, OBJECTIVES, AND OUTCOMES:

<u>GOAL</u>	<u>OBJECTIVES</u> Students will be able to	<u>OUTCOMES</u> The student will successfully
<b>**Critical Thinking</b>	gather factual information and apply it to a given problem in a manner that is relevant, clear, comprehensive, and conscious of possible bias in the information selected.	1. demonstrate how to a computer program using JavaScript and jQuery programming.
<b>CS</b>	design and develop the JavaScript code required for a web page.	1. create a web page implementing JavaScript code. 2. verify that the web page displays correctly in the web browser.

<u>CS</u>	demonstrate how to use JavaScript programming to create a function and utilize the function on a web page.	<ol style="list-style-type: none"> <li>1. design the JavaScript code to define a new JavaScript function.</li> <li>2. implement and run the JavaScript function correctly on a web page.</li> </ol>
<u>CS</u>	research and locate existing JavaScript code that could be implemented on a web page.	<ol style="list-style-type: none"> <li>1. Execute reusable JavaScript code on a web page with no errors.</li> </ol>
<u>CS</u>	research how to use jQuery.	<ol style="list-style-type: none"> <li>1. develop a web page that will execute jQuery code.</li> </ol>

F. SPECIAL INFORMATION:

This course may require use of the Internet, the submission of electronically prepared documents and the use of a course management software program. Students who have a disability and need accommodations should contact the instructor or the Student Success Center at the beginning of the semester. This information will be made available in alternative format, such as Braille, large print, or current media, upon request.

G. COURSE CODING INFORMATION: Course Code T/Class Maximum 30; Letter Grade

Revision date: 1/4/16; 4/3/18

AASC Approval date: 5/8/18

<b>*Riverland Community College Disciplines</b>	<b>MnTC Goal Number</b>
Communication (CM)	<b>1</b>
Natural Sciences (NS)	<b>3</b>
Mathematics/Logical Reasoning (MA)	<b>4</b>
History and the Social & Behavioral Sciences (SS)	<b>5</b>
Humanities and Fine Arts (HU)	<b>6</b>

<b>**Riverland Community College Core Themes</b>	<b>MnTC Goal Number</b>
Critical Thinking (CT)	<b>2</b>
Human Diversity (HD)	<b>7</b>
Global Perspective (GP)	<b>8</b>
Ethical and Civic Responsibility (EC)	<b>9</b>
People and the Environment (PE)	<b>10</b>

\*These five MnTC Goals have been identified as Riverland Community College Disciplines.

\*\* These five MnTC Goals have been identified as Riverland Community College Core Themes.

NOTE: The Minnesota Transfer Curriculum “10 Goal Areas of Emphasis” are reflected in the five required discipline areas and five core themes noted in the Riverland Community College program of study guide and/or college catalog.