



## MASTER COURSE OUTLINE

A. CPRO 1595 Web Design II with Responsive Design

B. COURSE DESCRIPTION:

This course focuses on the process of building a responsive website using HTML5, CSS3 and media queries using Bootstrap. Bootstrap is the most popular front-end web framework that has revolutionized modern web development, making it easy to build professional, feature-packed responsive websites. Topics covered include responsive page layouts, graphics, and interactive elements. Students will publish their websites with an ISP (Internet Service Provider) and apply web site testing, optimization and validation.

Web Design II is the second of a two-course sequence. Prerequisite: CPRO 1590. This course is part of the Computer Technology program which is an accredited program in World Organization of Webmaster (WOW) Professional Academy. Prerequisite: CPRO1590  
**(3 Cr – 3 lect, 0 lab)**

C. \*\*Core Theme: Critical Thinking

D. MAJOR CONTENT AREAS:

- Web Design
  - CSS box properties
  - Web content & page layouts
  - Graphics and color
  - Site navigation, multimedia and interactive elements
  - Data tables & web forms
  - Usability, accessibility, and internationalization issues for website design
  - Managing website
- Media queries
- Responsive design
- Bootstrap
  - Download & install bootstrap
  - Grid basics
  - Typography
  - Images, glyphs, media objects
  - Web forms, tables, jumbotron, carousels

E. GOAL TYPES, OBJECTIVES, AND OUTCOMES:

<u>GOAL</u>	<u>OBJECTIVES</u> Students will be able to	<u>OUTCOMES</u> The student will successfully
<u>**Critical Thinking</u>	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.	<ol style="list-style-type: none"> <li>1. demonstrate how to operate software to develop a website using standardized HTML, CSS coding.</li> <li>2. design a responsive website.</li> </ol>
<u>CS</u>	demonstrate an understanding of CSS.	<ol style="list-style-type: none"> <li>1. design a web page that implements CSS for layout and design purposes.</li> </ol>
<u>CS</u>	demonstrate the ability to apply interactivity to web pages.	<ol style="list-style-type: none"> <li>1. design a web page that is interactive</li> </ol>
<u>CS</u>	demonstrate knowledge of website usability and accessibility.	<ol style="list-style-type: none"> <li>1. design a web page that meets validation requirements for website accessibility and usability.</li> </ol>
<u>CS</u>	develop textual content that will be included on web pages.	<ol style="list-style-type: none"> <li>1. design a web page that incorporates web content in chunked format for easy readability.</li> <li>2. implement correct typography principles</li> </ol>
<u>CS</u>	demonstrate knowledge of the Bootstrap framework and responsive design.	<ol style="list-style-type: none"> <li>1. design a website that utilizes the grid concepts to provide support for a wide range of devices from extra small to large devices.</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. Software requirements: Adobe Creative Cloud is required for the class. The software is available in the Riverland Book Store.

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.