



## Norwalk Community College Continuing Education & Workforce Development Web Design Certificate Program

The demand for web designers continues to dramatically grow. The certificate program will provide students with the tools needed to enter this expanding and exciting industry.

Students must successfully complete the courses below to earn a certificate of completion.

| <u>Course</u>                    | <u>Total Hours</u> | <u>Total Sessions</u> | <u>Tuition*</u> | <u>Textbook</u> |
|----------------------------------|--------------------|-----------------------|-----------------|-----------------|
| 1. Web Development & Design I**  | Online             | Online                | \$620.00        | Additional Fee  |
| 2. Web Development & Design II** | 65                 | 28                    | \$711.00        | Additional Fee  |
| 3. Introduction to Programming** | Online             | Online                | \$620.00        | Additional Fee  |
| 4. Web Development with PHP**    | Online             | Online                | \$620.00        | Additional Fee  |

\*Tuition subject to change.

\*\*This course is also available as a Credit Division class and tuition may vary.

*Please refer to the Extended Studies & Workforce Education current catalog for course specifics (tuition, start date, class time slot and location).*

### Web Development & Design I

This course provides an entry into the fast-moving website development industry. With its heavy hands on mode of delivery, students will learn HTML5, Cascading Style Sheets (CSS3), and be exposed to JavaScript. Adhering to the standards specifically from the World Wide Web Consortium (W3C) and the European Computer Manufacturers Association (ECMA) will play a dominant role in the creation of web pages that are both platform and browser independent.

Prerequisite: Basic computer functionality.

### Web Development & Design II

As a continuation of the Web Development and Design I class, this course continues the knowledge and skills development of a web developer. The course covers advanced CSS and JavaScript in detail. CSS skills include mobile first design principles, positioning elements, and CSS frameworks. JavaScript fundamentals such as data types, functions, arrays, loops, and conditionals are included. Asynchronous JavaScript and XML (AJAX) is included. A large website project will be built.

Prerequisite: Web Development and Design I

### Introduction to Programming

This course (three hours lecture; two hours of laboratory) covers the fundamentals of programming and program development techniques. Topics include data types, functions, storage class, selection, repetition, pointers, arrays, and file processing. Programming laboratory projects in a closed laboratory environment are supervised by the instructor.

Prerequisite: Intermediate Algebra.

### Web Development with PHP

This course will introduce students to web development using PHP. Students will learn how to design websites according to the MVC model. Object-oriented PHP will serve as the means by which the model component of the MVC-based web application is implemented. Session management will be used to deliver customized content. Students will also use the MySQL database in conjunction with PHP to create dynamic web applications. 3 hours lecture, 2 hours lab.

Prerequisite: CSC 108 Introduction to Programming or CSC 207 Introduction to VB.NET.

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