



Extended Studies & Workforce Education Division Norwalk Community College Web Mastering Certificate Program

The Web Mastering Certificate Program will enable participants to gain the professional skills required in Internet systems design, maintenance, and programming. Previous programming experience is recommended.

<u>Course</u>	<u>Total Hours</u>	<u>Total Sessions</u>	<u>Tuition*</u>	<u>Textbook</u>
1. XML for the World Wide Web	Online	Online	\$620	N/A
2. VisualBasic.net Introduction to Programming	18	6	\$349	Additional Fee
3. Introduction to JavaScript Programming	18	6	\$349	N/A
4. Introduction to Programming with C#.net	18	6	\$349	Additional Fee

*Tuition subject to change.

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

Course Descriptions

XML for the World Wide Web

The course builds on students' knowledge of HTML and JavaScript in the rich world of XML. Topics covered include creating well-formed and valid XML documents, Document Type Definitions (DTDs), namespaces, entities, XML Schemas, formatting using Cascading Style Sheets (CSS) and Extensible Style sheet Language (XSL) and transformations using XSL Transformations. Two hours of laboratory.

Prerequisite: Some programming experience required.

Additional information about the online component of this class is available online (<http://norwalk.edu/dept/distance-learning/default.asp>)

VisualBasic.NET Introduction to Programming with C#.net

This course provides an introduction to the world of programming utilizing VisualBasic.NET, a high-level event driven programming language. Students will develop skills for solving problems with a computer. The basic concepts of C#.net will be mastered to aid in solving these problems. More advanced programming concepts are also explored, including database programming and object oriented programming.

Introduction to JavaScript Programming

JavaScript is a powerful programming language built into every web browser. In this course, students examine the latest JavaScript language features, including: syntax and conventions, data types, operators, functions, closures, objects, timers and event handlers. The development environment will use “open source” tools including: Notepad++, jQuery, jsLint, and Firebug. Students will review best programming practices and focus on learning to avoid common pitfalls as well as developing strong thinking and debugging skills. This is a “hands-on” course. It is based on a series of increasingly challenging exercises in which students will learn to translate specifications and requirements into efficient and working code. Although there is no textbook for this course, readings from freely available web sources will be assigned.

Please Note: Students must bring a flash drive to class.

Introduction to Programming with C#.net

This course is an introduction to the world of programming utilizing Visual C#.NET, a high level event driven programming language. Students will develop skills for solving problems with a computer. The basic concepts of C# are mastered in order to aid in solving these problems. More advanced programming concepts are also explored including database programming and object oriented programming.

Employment Related Information

- Job opportunities for a Certificate holder will be entry-level positions managing web content and design for their clients.
- Job Search Keywords:
software development engineer, web developer, web programmer, web designer, systems developer, internet marketing specialist, digital content manager
- O*NET: A tool for career exploration and job analysis!

O*NET A tool for career exploration and job analysis! O*NET OnLine has detailed descriptions of the world of work for use by job seekers, workforce development and HR professionals, students, researchers, and more! <https://www.onetonline.org/> Type in Web Master in "Keyword or O*NET-SOC Code"

Date Created: 7/31/15

Date Updated: 12/22/16