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Academic Year: 2020-2021

Web Programmer Certificate

Program Code 901522

The Web Programmer certificate is designed for individuals interested in developing database skills necessary to integrate web technologies. All credits from this certificate can be applied to meet requirements in the Web Development Associate Degree program and IT Web Programmer Technical Diploma.

CURRICULUM

Catalog No.	Description	Credits
10-152-185	Website Coding	3
10-154-125	IT:Web:Database Development	3
10-152-184	IT:Web:Programming-SQL	3
10-152-180	IT:Web:Scripting-JavaScript	3
10-152-173	IT:Program:Part 1 (C#)	3
10-152-182	IT:Web:Scripting-PHP	3
10-152-183	IT:Web:Scripting-ASP.NET	3
Certificate Total		21

Requirements for Certificate Entry:

- A strong computer background.
- A minimum keyboarding skill of 30 WPM.

Course Descriptions

10-152-185 WEBSITE CODING ...create code for generating the structure, function, and design of static websites using standards-based HTML5 and CSS3; validate code; test multi-browser and multi-device functionality.

10-154-125 IT:WEB:DATABASE DEVELOPMENT ...database uses, database terminology, analyzing information requirements, data models, database design phases, entity relationships, normalization processes, database management systems, database objects, development environments, creating tables, writing queries using SQL, testing.

10-152-184 IT:WEB:PROGRAMMING-SQL ...write queries in a relational database: creating tables, setting primary/foreign keys, populating tables, manipulating data and reporting. Explore join types, stored procedures, functions, and database administration SQL statements. (Prerequisite: 10-154-125, IT:Web:Database Development)

10-152-180 IT:WEB:SCRIPTING-JAVASCRIPT ...integrate JavaScript into interactive HTML5 pages, create user-defined functions, complete form validation, use objects within the Document Object Model, debug code, and test browser compatibility. (Prerequisite: 10-152-185, Website Coding)

10-152-173 IT:PROGRAM:PART 1 (C#) ...provides a foundation of syntax/semantics of C# .NET programming language to develop Windows-based/ Web-based applications. Covers the architecture of Microsoft's .NET platform where C# is the native language.

10-152-182 IT:WEB:SCRIPTING-PHP ...use PHP, MySQL, HTML5, CSS3 and Apache to create standards based websites. PHP is used to connect to a MySQL database and retrieve site content. PHP is also used to organize the HTML5. (Prerequisites: 10-154-125, IT:Web:Database Development; 10-152-185, IT:Web:Website Coding)

10-152-183 IT:WEB:SCRIPTING-ASP.NET ...build interactive, database-driven websites with ASP.NET and C# with Visual Studio, handling web form events, using ASP.NET controls, designing master pages, managing state, and interacting with databases with ASP.NET data-bound controls. (Prerequisites: 10-154-125, IT:Web:Database Development; 10-152-180, IT:Web:Client Script-JavaScript; 10-152-173, IT:Program:Part 1 (C#))