

# COMPUTER INFORMATION SYSTEMS, WEB PROGRAMMING FUNDAMENTALS, SHORT-TERM TECHNICAL CERTIFICATE

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Curriculum Code #6622

Effective May 2019

Division of Engineering, Business and Information Technologies (<http://catalog.lorainccc.edu/previous-catalogs/2019-2020/academic-programs/engineering-business-information-technologies>)

The short-term technical certificate web programming fundamentals represents the successful completion of select web development courses that prepare the student to develop web sites, including database-driven websites. The topics in the coursework include: HTML, XHTML, CSS, XML, JavaScripts, server side scripting languages (PHP, ASP.NET or equivalent), database design, SQL, creation of database-driven websites, Web 2.0 technologies - such as AJAX, basic programming logic, basic web design principles, basic Flash animation, basic image editing, basic audio editing and basic video editing. Completion of this certificate prepares the student for entry-level web design positions or for further study leading to an associate degree in web development. It is also especially well-suited for those individuals with professional experience and/or a degree, especially IT-related, that may want to upgrade their skills to include web design.

Code	Title	Hours
CISS 121	MICROCOMPUTER APPLICATIONS I <sup>1</sup>	3
CISS 143	DATABASE DESIGN AND IMPLEMENTATION <sup>1</sup>	3
CISS 160	INTRODUCTION TO PROGRAMMING IN C# <sup>1</sup>	4
CISS 215	MULTIMEDIA FUNDAMENTALS <sup>1</sup>	3
CISS 216	WEB DEVELOPMENT <sup>1</sup>	3
CISS 232	SCRIPTING IN THE CLIENT SERVER ENVIRONMENT <sup>1</sup>	3
CISS 243	WEB DATABASE INTEGRATION <sup>1</sup>	4
Total Hours		23

<sup>1</sup> Indicates that this course has a prerequisite.

While completion of this certificate may aid in obtaining employment, many employers recommend the minimum completion of a computer information systems degree program to gain employment in an IT-related field.

Program Contact(s):

**Michael Zellers**

440-366-4796

mzellers@lorainccc.edu

For information about admissions, enrollment, transfer, graduation and other general questions, please contact your advising team (<https://www.lorainccc.edu/admissions-and-enrollment/advising-and-counseling>).

**More program information can be found on our website.** (<https://www.lorainccc.edu/it/web-development/computer-information-systems-web-programming-fundamentals-short-term-certificate>)