

# COMPUTER INFORMATION SYSTEMS: COMPUTER PROGRAMMING CERTIFICATE

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**Program code:** CISP-CC

**Location:** Capital, Gateway, Housatonic, Middlesex, Naugatuck Valley, Northwestern, Tunxis

## Certificate Requirements

CSC 1201 Introduction to Programming *and* CSC 2213 Object Oriented Programming *are not allowed in this program. Students are encouraged to take CSC 1211 Java I or other programming language.*

Code	Title	Credits
<b>Required Courses</b>		
CIS 1001 or CIS 1141	Introduction to Computers Introduction to Management Information Systems	3
Choose one of the following:		3
CSC 1211	Java I	
CSC 1205	Visual Basic	
CSC 1203	Python Fundamentals	
CSC 2235	Introduction to Database Design	3
Choose three of the following directed electives:		9-10
CSC 2274	Client-Side Web Development	
CSC 2251	Mobile Device Programming	
CSC 2252	Programming Mobile Devices I	
CSC 1203	Python Fundamentals	
CSC 1205	Visual Basic	
CSC 1211	Java I	
CSC 2212	Java II	
CSC 2214 or CIS 2144	C++ Programming Systems Analysis and Design	
<b>Total Credits</b>		<b>18-19</b>

**Total Credits: 18**