

# Cert: Game Programming

## 2014 - 2015

The Game Programming Certificate provides students with an opportunity to learn how to create interactive computer games, including Web-based ones. It targets students who want to acquire skills needed for game design and programming. The required Game Programming course utilizes programming language chosen by instructor. The Certificate offers a choice between the three most popular programming languages: Java, C++ and C#.

### Program Courses

Course No.	Course Title	Credits	Goal Area	Comments/Substitution
CSCI1030	Programming for Internet	3		
CSCI1035	Introduction to Computer Programming with Games	4		

### Program Electives

Course No.	Course Title	Credits	Goal Area	Comments/Substitution
<b>Program Electives - 4 credits:</b>				
CSCI1120	Programming in C/C++ <i>or</i>	4		
CSCI1130	Introduction to Programming in Java <i>or</i>	4		
CSCI1150	Programming in C# for .NET	4		
<b>Program Electives - 5 credits:</b>				
CSCI1020	Beginning Web Page Programming <i>or</i>	1		
CSCI1040	Fundamentals of Structured Query Language (SQL) <i>or</i>	3		
CSCI1160	Beginning Web Programming in ASP.NET <i>or</i>	4		
CSCI1990	Topics:	1		

### NHCC Residency and GPA

Course No.	Course Title	Credits	Goal Area	Comments/Substitution
<b>5 Credits must be earned at NHCC:</b>				
<b>2.00 overall GPA for NHCC courses</b>				

**Total Credit Required 16**

### Degree Requirements

2.00 overall GPA for NHCC courses

#### Program Outcomes

- How to plan an interactive game
- Specifics of game design for Internet delivery
- How to design and deploy a Website
- How to program in one of the major general computer languages

#### Gainful Employment Program Information

[Game Programming](#)

#### Degree Information

Certificates may be earned for successful completion of courses in a specialized program of study with a minimum grade point average of 2.00 (C). A certificate shall include 9 to 30 semester credits. At least one-third of the total credits required for each certificate must be completed at North Hennepin Community College.

#### Developmental Courses

Some students may need preparatory course(s) in Math and/or English. Courses numbered below 1000 will not apply toward a degree.

#### Equal Opportunity Employer and Disability Access Information

North Hennepin Community College is a member of Minnesota State Colleges and Universities system and an equal opportunity employer and educator. This document is available in alternative formats to individuals with disabilities by calling 763-493-0555 or

through the Minnesota Relay Service at 1-800-627-3529.

### **Career Opportunities**

Information on careers, including salary and employment outlook data, is available on the iseek and Bureau of Labor Statistics websites: [www.iseek.org](http://www.iseek.org) and [www.bls.gov](http://www.bls.gov).

### **Accreditation**

North Hennepin Community College is accredited by the:  
Higher Learning Commission of the North Central Association of Colleges and Schools  
30 N. LaSalle Street, Suite 2400  
Chicago, IL 60602-2504  
1-800-621-7440

### **Transfer Information**

If you are planning on transferring to another institution, follow the guidelines available on our transfer resources web page to help you plan the process: [Transfer Information](#)