

Cert: Application Programming

2017 - 2018

The Application Programming Certificate helps students to build and develop an understanding for designing, coding, testing and debugging applications in various programming languages.

Program Courses

Course No.	Course Title	Credits	Goal Area	Comments/Substitution
Program Courses - 12 credits:				
CSCI1120	Programming in C/C++ <i>or</i>	4		
CSCI1130	Introduction to Programming in Java (CS0) <i>or</i>	4		
CSCI1150	Programming in C# for .NET <i>or</i>	4		
CSCI2001	Object Oriented Programming (CS1) <i>or</i>	4		
CSCI2002	Data Structures and Algorithms (CS2) <i>or</i>	4		
CSCI2020	Computer Architecture <i>or</i>	4		
CSCI2060	Web Programming in ASP.NET	4		

NHCC Residency and GPA

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

Total Credit Required 12

Degree Requirements

2.00 overall GPA for NHCC courses

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.

Program Outcomes

Knowledge of Human Cultures and the Physical and Natural World, including:

- Writing programs to handle a specific job, such as a program to track inventory within an organization.

Intellectual and Practical Skills, including:

- Revising existing software to improve performance.
- Customizing generic applications for specific tasks.
- Writing custom web applications.
- Differentiating requirements of application programming from system programming.

Career Opportunities

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

Accreditation

North Hennepin Community College is accredited by the: Higher Learning Commission 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](#)

you plan the process: [Transfer Information](#)

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.