



Wayne  
County  
Community  
College  
District

# Computer Information Systems: Application Developer

## PAY

The median annual wage for computer programmers/developers was \$86,550 in May 2019. The lowest 10 percent earned less than \$50,150 and the top 10 percent earned more than \$140,250.

## JOB OUTLOOK

Most application developers or computer programmers work full-time. Employment of developers is projected to decline 7 percent from 2018 to 2028, about as fast as the average for all occupations. Keeping up to date with the newest programming tools and technology will also improve job prospects.

*Source: Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, April 2020, Computer Programmers, on the Internet at <http://www.bls.gov/ooh/computer-and-information-technology/computer-programmers.htm>*

## ABOUT THE PROGRAM

The Computer Information Systems: Application Developer certificate is designed to prepare students for mobile application developer career positions or as entrepreneurs in mobile application development. Students will gain technical foundation in how to design, develop, implement, and market simple business or personal solutions through mobile applications. The student completing this program can publish his or her application in the APP-Store.



## WHAT DO APPLICATION DEVELOPERS DO?

Application Developers design, develop, create, and modify general computer application software or specialized utility programs. They write code to create application programs. This entails analyzing user needs and developing software solutions. Developers turn existing program designs into instructions that a computer can follow by planning the program, creating models and flowcharts detailing how the code is to be written, writing and debugging code, and designing user/system interface. They design program applications or customize software for client use with the aim of optimizing operational efficiency. Some mobile applications are relatively simple and usually take a few days to write, while others may be a little complex. Developers must understand complex instructions in order to create necessary code, be able to work at a computer, writing lines of code for long periods of time. They must closely examine the code for errors and fix any they find to produce the expected results.

## WHERE DO THEY WORK?

Application Developers work in variety of industries. They work independently in offices or respective homes. Many usually work in offices, in the computer systems design and related services industry. Application Developers also work as programmers with other computer specialists on large projects. As writing code can be done anywhere, many developers telecommute.

**Wayne County Community College District...  
Jobs for Today, Jobs for the Future!**

**FOR MORE INFORMATION, CALL 313-496-2600  
OR VISIT OUR WEBSITE AT WWW.WCCCD.EDU**



## Recommended Sequence of Courses

### Application Developer: College Certificate

CR. No.	COURSE TITLE	CREDITS
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#### **SEMESTER 1**

CIS 110	Introduction to Computer Information Systems . . . . .	4
BUS 225	Computer Application in Business . . . . .	3
SPH 101	Fundamentals of Speech . . . . .	3

**SEMESTER TOTAL . . . . .10**

#### **SEMESTER 2**

CIS 130	Introduction to Application Development . . . . .	4
CIS 207	Java Programming Language . . . . .	4
CIS 241	Internet Foundations . . . . .	4

**SEMESTER TOTAL . . . . .12**

#### **SEMESTER 3**

CIS 215	iOS Application Development . . . . .	4
CIS 217	Android Application Development . . . . .	4
CIS 220	Application Development Capstone Project . . . . .	4

**SEMESTER TOTAL . . . . .12**

**CIS: APPLICATION DEVELOPER  
CERTIFICATE TOTAL . . . . .34**

*Note: Certificate totals may not include prerequisites.*

