



Wayne  
County  
Community  
College  
District

# Computer Information Systems

## PAY

The median annual wage for computer programmers was \$82,240 in May 2017.

## JOB OUTLOOK

Employment of computer programmers is projected to decline 7 percent from 2016 to 2026 as programming can be done from anywhere in the world.

*Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, April 2018, 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 Associate of Applied Science degree program is designed to provide a solid foundation in the fundamental skills that are generally required to analyze system requirements and design solutions, or to support and manage the application of technology resources. The degree includes core courses of information systems fundamentals, and allows for the selection of courses in specialized areas of concentration to complete the degree option requirements.



Program concentrations are designed to meet the educational needs of most segments of the IT field in a client-server environment and microprocessor platform along with web and server applications. The training blends general education courses with the required IT skills for programmer/analyst in government, insurance, manufacturing, service, sales, utilities and banking. Additional education and job experience leads to work in systems analysis and project management.

## WHAT DO COMPUTER PROGRAMMERS DO?

Computer programmers write code to create software programs. They turn the program designs created by software developers and engineers into instructions that a computer can follow.

## WHERE DO THEY WORK?

Programmers usually work in offices, most commonly in the computer systems design and related services industry.



# Recommended Sequence of Courses

## Computer Information Systems:

Associate of Applied Science (A.A.S.)

| CR. No. | COURSE TITLE | CREDITS |
|---------|--------------|---------|
|---------|--------------|---------|

### SEMESTER 1

|         |                                                        |   |
|---------|--------------------------------------------------------|---|
| CIS 110 | Introduction to Computer Information Systems . . . . . | 4 |
| ENG 119 | English I . . . . .                                    | 3 |
| CIS 112 | Structured Design . . . . .                            | 3 |
| BUS 225 | Computer Applications in Business . . . . .            | 3 |

**SEMESTER TOTAL . . . . .13**

### SEMESTER 2

|           |                                             |   |
|-----------|---------------------------------------------|---|
| CIS 203   | Visual Basic Programming Language . . . . . | 3 |
| Elective: | Humanities . . . . .                        | 3 |
| CIS 241   | Internet Foundations . . . . .              | 4 |
| Elective: | English . . . . .                           | 3 |

**SEMESTER TOTAL . . . . .13**

### SEMESTER 3

|           |                                     |   |
|-----------|-------------------------------------|---|
| CIS 207   | Java Programming Language . . . . . | 4 |
| MAT 113   | Intermediate Algebra . . . . .      | 3 |
| Elective: | CIS . . . . .                       | 3 |
| PS 101    | American Government . . . . .       | 3 |

**SEMESTER TOTAL . . . . .13**

### SEMESTER 4

|           |                                             |   |
|-----------|---------------------------------------------|---|
| CIS 209   | C Programming Language . . . . .            | 4 |
| SPH 101   | Fundamentals of Speech . . . . .            | 3 |
| CIS 210   | Introduction to Operating Systems . . . . . | 3 |
| Elective: | Social Science . . . . .                    | 3 |

**SEMESTER TOTAL . . . . .13**

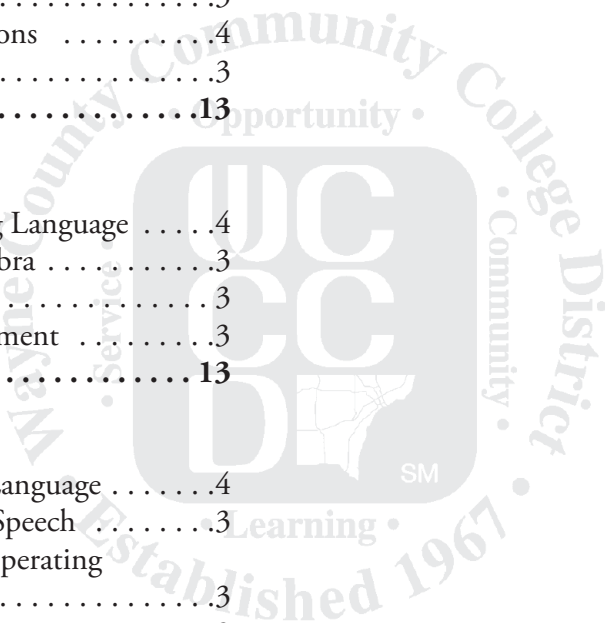
### SEMESTER 5

|           |                                 |   |
|-----------|---------------------------------|---|
| CIS 212   | Linux . . . . .                 | 4 |
| Elective: | Natural Science w/Lab . . . . . | 4 |

**SEMESTER TOTAL . . . . .8**

**CIS A.A.S. PROGRAM TOTAL . . . . .60**

*Note: Program total hours may not include prerequisites.*



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