

Information Technology

Computer developers are the people who change our lives as much as the fellow who invented the wheel. Without developers, computers are useless. Applications developers design, write, test, and debug software programs. Systems developers oversee and integrate the work of applications developers and serve as technical advisors to systems analysts, application programmers, and operations personnel.

There are five options within this program:

- **Information Technology** A.S. Degree
- **Customer Support Specialist** Technical Certificate
- **Web Development Specialist** Technical Certificate
- **Database Development Specialist** Technical Certificate
- **Computer Programming Specialist** Technical Certificate

Students may choose to pursue the Information Technology degree and earn technical certificates while completing the requirements for the degree, or pursue one or more certificate programs to develop or upgrade their skills in a particular field. Contact an advisor or counselor to determine the career education path that is best for you.

Computer Programming Specialist (6956)

Technical Certificate

For individuals who enjoy analyzing and solving problems and programming computers, the future is bright. With a shortage of good programmers in the United States, there should be plenty of job opportunities for programming graduates. The Computer Programming Specialist Technical Certificate is designed for developers who wish to specialize in software development technologies and languages. In this technical certificate, students can learn popular computer languages for microcomputer programming including Visual Basic.NET, C language, C# language, or JAVA. Students will learn the fundamentals of program design and systems design, data structures, data communications, customer support operations, and advanced programming in specific languages.

Articulations

All courses in this certificate program apply to the **Information Technology** AS/AAS degree.

Cost

Estimated cost of tuition is \$1,660 (tuition rated for Florida residents, as of 7/07). Contact the program manager for additional costs (textbooks, materials, fees).

Need More Information? Contact:

Rick Nelson, South Campus, 904.646.2061
Sheri Litt, Kent Campus, 904.381.3704

More Information Online

Department of CIS and OST at South Campus

Curriculum

| Course Number and Title | Credits |
|--|---------|
| General Education | |
| COP 1000 Introduction to Programming and Algorithm Design | 3 |
| COP 2822 Web Technologies | 4 |
| CTS 1405 Database Management and Design | 3 |
| CIS 2321 Information Systems | 3 |
| CIS 2613 Information Technology Project Management | 3 |

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|---|-----------|
| Credit Hours | 16 |
| Professional Electives (see available tracks below) | 9 |
| Total Credit Hours | 25 |

Professional Electives (minimum 9 credit hours from selected track)

C Languages Track

| | | |
|-----------------|--------------------------------------|---|
| COP 2220 | C Programming | 3 |
| COP 2334 | Object-Oriented Programming with C++ | 3 |
| COP 2360 | Introduction to C# | 3 |

Java Track

| | | |
|--------------------|---------------------------------------|---|
| COP 2551 | Object-Oriented Programming with Java | 3 |
| or COP 2252 | Websphere Java Programming | |
| COP 2805 | Advanced Java Programming | 3 |
| COP 2806 | J2EE Java Development I | 3 |

Visual Basic.NET Track

| | | |
|-----------------|---------------------------------------|---|
| COP 2837 | Programming with Visual Basic.NET | 3 |
| COP 2838 | Advanced Visual Basic.NET Programming | 3 |
| COP 2840 | Internet Programming | 4 |

Please see the technical certificate **Graduation Requirements**.

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