

2007-08 Catalog: Programs of Study

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.

Information Technology (2153)

Associate in Science

The Information Technology program prepares you for a respected career as a developer, programmer, programmer-analyst, database developer, or web developer. You'll study program and systems design, computer communications, database development, web development, customer support, and programming in specific languages. Our relationship with Microsoft's Developer Network Academic Alliance allows you to download a free, licensed copy of the Microsoft server and developer applications, operating systems and programming languages taught in your classes. A 120-hour internship is included in the program to provide valuable work experience.

The Information Technology degree program allows you to focus in one of three career tracks:

- **Programming Track:** The Programming Track allows for specialization in software development using modern languages. Students may select 9 credits from C language, C++, C#, Java, J2EE, or Visual Basic.NET
- **Web Track:** The Web Track allows for specialization in web development using modern web technologies. Students may select 9 credits from web design, web management, UNIX/Linux development, or server development.
- **Database Track:** The Database Track allows for specialization in database development using modern database technologies. Students may select 9 credits from Oracle SQL, PL/SQL, database administration, M.S. SQL Server database, or M.S. Access database.

Cost

Estimated cost of tuition is \$4,184 (tuition rated for Florida residents, as of 7/07). Estimated cost of textbooks is \$1,680. Contact the program manager for additional costs (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	
ENC 1101 English Composition I	3
ENC 1102 Writing About Non-Fiction	3

*Mathematics	3
*Humanities	3
*Social Science	3
Credit Hours	15

Required Professional Courses

CGS 1060	Introduction to Information Technology	3
CGS 1100	Microcomputer Applications for Business and Economics	3
CDA 1302	Hardware Configuration	3
CDA 1403	Software Configuration	3
CDA 2500	Computer Networks and Telecommunications	3
CTS 1405	Database Management and Design	3
COP 1000	Introduction to Programming and Algorithm Design	3
COP 2551	Object-Oriented Programming with Java	3
or COP 2840	Internet Programming (4 cr.)	
CIS 2321	Information Systems	3
COP 2822	Web Technologies	4
CIS 2401	Customer Support Operations	
CIS 2613	Information Technology Project Management	3
CIS 1942	Internship	2
Credit Hours		39
Professional Electives	(see available tracks below)	9
Total Credit Hours		63

Professional Electives (minimum 9 credit hours from selected track)

Programming Track (minimum 9 credit hours)

COP 2220	C Programming	3
COP 2334	Object-Oriented Programming with C++	3
COP 2360	Introduction to C#	3
COP 2252	Websphere Java Programming	3
COP 2805	Advanced Java Programming	3
COP 2806	J2EE Java Development I	3
COP 2837	Programming with Visual Basic.NET	3
COP 2838	Advanced Visual Basic.NET Programming	3

Web Track (minimum 9 credit hours)

CGS 2283	Internet Servers and Inter-Networking	4
CGS 2820	Web Site Design and Development	4
CGS 2821	Advanced Web Site Design and Development	4
CGS 2825	Web Site Management	3

Database Track (minimum 9 hours)

COP 2702	Oracle SQL and PL/SQL	4
COP 2741	Oracle Database Administration	4

COP 2745	Advanced Oracle PL/SQL Programming	3
CTS 2437	Introduction to SQL Server Database	3
CGS 2542	Database Concepts for Microcomputers	3

*Refer to A.S. degree **General Education Requirements**.

Note

This associate in science degree program is intended primarily for students who desire to complete an associate in science degree and become employed. Students who decide to pursue university transfer study must meet certain course and test requirements. For details refer to **the university transfer guide**.

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