

# PROGRAMS

## INFORMATION TECHNOLOGY - COMPUTER PROGRAMMING AND DEVELOPMENT (A25590CP)

The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and/or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

### Associate in Applied Science Degree Program

		Course Hours Per Week		Semester Hours
First Semester (Fall)		Class	Lab	Credit
ACA-115	Success & Study Skills	0	2	1
CIS-110	Introduction to Computers	2	2	3
CIS-115	Intro to Prog & Logic	2	3	3
CTI-120	Network & Sec Foundations	2	2	3
DME-110	Intro to Digital Media	2	2	3
ENG-111	Writing and Inquiry	3	0	3
<b>Credit Hours</b>		<b>11</b>	<b>11</b>	<b>16</b>
Second Semester (Spring)				
CSC-153	C# Programming	2	3	3
CTI-110	IT Foundations	2	2	3
CTS-115	Info Sys Business Concepts	3	0	3
MAT***	MAT-121 or MAT-143 or MAT-171	2-3	2	3-4
WEB110				
<b>Credit Hours</b>		<b>9-10</b>	<b>7</b>	<b>12-13</b>
Third Semester (Summer)				
ENG-112 or ENG-114	Writing/Research in the Disc or Prof Research & Reporting	3	0	3
WEB-115	Web Markup and Scripting	2	3	3

		Course Hours Per Week		Semester Hours
***	Technical Elective	0-2	2-30	3
	<b>Credit Hours</b>	<b>5-7</b>	<b>5-33</b>	<b>9</b>
<b>Fourth Semester (Fall)</b>				
CSC-253	Advanced C# Programming	2	3	3
DBA-110	Database Concepts	2	3	3
DBA-120	Database Programming I	2	2	3
***	Technical Elective	0-2	2-30	3
***	Humanities/Fine Arts Elective	3	0	3
	<b>Credit Hours</b>	<b>9-11</b>	<b>10-38</b>	<b>15</b>
<b>Fifth Semester (Spring)</b>				
CSC-289	Programming Capstone Project	1	4	3
DBA-221	SQL Server DB Prog II	2	2	3
***	Social/Behavioral Sciences Elective	3	0	3
***	Technical Elective	0-2	2-30	3
	<b>Credit Hours</b>	<b>6-8</b>	<b>8-36</b>	<b>12</b>
Total Required Minimum Semester Hours Credit				64

<b>Technical Electives: Please select three courses from the following.</b>		Class	Lab	Credit
CIS-117	Survey of Mobile Apps W/ Swift	2	2	3
CSC-118	Swift Programming I	2	3	3
CSC121				
CSC-134	C++ Programming	2	3	3
CSC-139	Visual BASIC Programming	2	3	3
CSC-151	JAVA Programming	2	3	3
CSC-218	Swift Programming II	2	3	3
NOS-120	Linux Single User	2	3	3
WEB182				
WEB210				

**If you choose WBL as one Technical Elective, you must complete 3 Credit Hours from the classes below.**

WBL-111I	Work-Based Learning I	0	10	1
WBL-112I	Work-Based Learning I	0	20	2
WBL-113I	Work-Based Learning I	0	30	3
WBL-115I	Work-Based Learning Seminar I	1	0	1
WBL-121I	Work-Based Learning II	0	10	1
WBL-122I	Work-Based Learning II	0	20	2

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