

## *Computer Information Systems/Telecommunications*

# *Programming*

The Computer Information Systems/Telecommunications program at CCBC is designed to prepare you for occupations in the computer occupations in the computer information field as programmer, application designer, system analysts and database administrator by integrating computers and business in its curriculum.

The degree has an emphasis on computer programming skills that you will need to design and execute programs that are the backbone of business data management such as gathering, verifying, processing and archiving data and the development of new applications. You will accomplish this by taking classes in computer programming languages and application development tools such as Visual Basic, Visual C, and Java.

In addition to stalwart business programming languages such as COBOL, you will learn Java and Database Management to expand your programming capabilities to include programming for E-commerce applications: the Internet and E-Commerce.

The student internship, offered only in the final semester of the study, provides you with an opportunity to gain experience in the CIS field prior to graduation.

Curriculum			Revised/ New	Faculty Responsible
<b>FIRST YEAR</b>				
<b>First Semester – 15 Credits</b>				
<b>Code</b>	<b>Course</b>	<b>Credit</b>		
<b>BD 150</b>	<b>Intro to Computers</b>	<b>3</b>	<b>Revised</b>	<b>Heidie</b>
<b>HE 155</b>	English Composition I	3		
<b>MA 155</b>	College Algebra	3		
<b>BD 160</b>	Visual BASIC I	3		
<b>HP 160</b>	General Psychology I	3		
<b>Second Semester – 16 Credits</b>				
<b>HE 150</b>	Writing for Business & Technology or	3		
<b>HE 156</b>	English Composition II			
<b>BD 151</b>	COBOL	4		
<b>BD 165</b>	Visual BASIC II	3		
<b>BD 170</b>	Internet	3		
<b>BD 241</b>	Microcomputer Applications	3		
<b>SECOND YEAR</b>				
<b>Third Semester – 18 Credits</b>				
<b>MA 153</b>	Statistics	3		
<b>BA 155</b>	Accounting I	3		
<b>BD 177</b>	<b>Java I</b>	<b>3</b>	<b>New</b>	<b>Heidie</b>
<b>DB 212</b>	Visual C I	3		
<b>BD 255</b>	Macroeconomics	3		

### Sources:

- A. Curriculum Description and Outline, CCBC Catalog, Academic Year 2001-2002, Page 53
- B. Curriculum Committee Records, Academic Year 2000-2001

	Visual Technology Elective	3		
<b>Fourth Semester – 18 Credits</b>				
<b>BA 156</b>	Accounting II			
<b>BD 213</b>	Visual C II	3		
<b>BD 233</b>	Data Base Management Systems	3		
<b>BD 235</b>	<b>Java II</b>	<b>3</b>	<b>New</b>	<b>Heidie</b>
<b>HE 149/ HE 290</b>	Oral Communications or Public Speaking	3		
<b>BD 260 BD 228</b>	<b>Internship</b> or File Processing & Access Methods	3	<b>New</b>	<b>Other</b>

**Sources:**

- A. Curriculum Description and Outline, CCBC Catalog, Academic Year 2001-2002, Page 53
- B. Curriculum Committee Records, Academic Year 2000-2001