

GLOUCESTER COUNTY COLLEGE
BUSINESS AND TECHNOLOGY DIVISION

GRADUATION CONTROL SHEET

COMPUTER INFORMATION TECHNOLOGY
Software Development
Certificate Program

This certificate program prepares students for employment in the field of Computer Information Technology by providing the basic knowledge and specific skills necessary for a successful career. Students will obtain a solid conceptual understanding of information technology and information systems especially in areas such as computer hardware, software design, software development and software utilization. The program will also prepare the student to successfully design, develop and implement data base management systems and object-oriented Windows based applications. Students will gain valuable hands-on experience using the industry's most popular application software packages, programming languages, and development tools. Students receiving this certificate may, at a later time, complete the remaining courses for various associate degrees offered by the Business and Technology Division.

<u>Course</u>		<u>Credits</u>	
_____	BUS 102	Accounting I	4
_____	COM 101	English Composition I	3
_____	MAT 100	Foundations of Mathematics I	3
_____	CIS 107	Concepts of Information Systems	3
_____	CIS 110	Fundamentals of Programming	4
_____	CIS 151	Web Development HTML	4
_____	CIS 120	Spreadsheets - EXCEL	4
_____	CIS 203	Systems Analysis and Design	3
_____	CIS 210	Relational Databases	4
_____	CIS 264	Database Applications Development	4
		<u>TOTAL MINIMUM CREDITS:</u>	36

* Students with prior programming experience will substitute a CIS elective.

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REQUIRED CORE AND ELECTIVE COURSES

		<u>Credits</u>
<u>Communications</u>		
English Composition I	COM 101	3
<u>Mathematics</u>		
Foundations of Mathematics I	MAT 100	3
<u>Business</u>		
Accounting I	BUS 102	4
Concepts of Information Systems	CIS 107	3
Fundamentals of Programming	CIS 110	4
Web Development HTML	CIS 151	4
Spreadsheets - EXCEL	CIS 120	4
Systems Analysis and Design	CIS 203	3
Relational Databases	CIS 210	4
Database Applications Development	CIS 264	4
	<u>TOTAL MINIMUM CREDITS:</u>	36