

GLOUCESTER COUNTY COLLEGE
BUSINESS AND TECHNOLOGY DIVISION

GRADUATION CONTROL SHEET

COMPUTER SCIENCE
Associate in Science (A.S.) – Transfer

This program is designed for the student who wishes to transfer to a four-year institution as a computer science major and eventually take advantage of the many opportunities for computer professionals. The core curriculum will provide foundations in algorithms, data representation, programming, and computer languages.

This curriculum attempts to meet the employment needs related to computer science by the provision of two curriculum options--theoretical and applied. Students interested in the theoretical option are advised to enroll in mathematics courses up to Calculus III. Those students who seek an emphasis in the application of computer science techniques will be advised to select electives related to business administration.

Students should contact the transfer counselor to determine appropriate transfer requirements to four- year colleges.

<u>FIRST YEAR – Fall Semester</u>	<u>Credits</u>
_____ CSC 111 Intermediate Programming	4
_____ COM 101 English Composition I	3
_____ MAT _____ Mathematics Elective*	4
_____ _____ Science Elective**	4
	15
<u>Spring Semester</u>	
_____ CSC 201 Programming in "C"	4
_____ COM 102 English Composition II	3
_____ MAT _____ Mathematics Elective*	4
_____ _____ Science Elective**	4
_____ _____ Humanities Elective	3
	18
<u>SECOND YEAR - Fall Semester</u>	
_____ CSC 202 Data Structures	4
_____ CSC 205 Programming in C++	4
_____ _____ Mathematics or Business Elective*	4
_____ _____ Social Science Elective***	3
_____ HPE _____ Physical Education Elective	1
	16
<u>Spring Semester</u>	
_____ CSC 203 Assembly Language	4
_____ MAT 113 Discrete Mathematics	3
_____ _____ Humanities Elective	3
_____ _____ Mathematics or Business Elective*	4
_____ _____ Social Science Elective ***	3
	17
<u>TOTAL MINIMUM CREDITS:</u> 66	

THEORETICAL OPTION: *Pre-Calculus and Mathematical Analysis; Calculus I, II, III;

**General Physicals I, II; Physics with Calculus I, II

APPLIED OPTION: *Mathematics for Management; Applied Calculus; Statistics; Accounting I or II required;

***Economics I, II required

Date of last revision: 05/07

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REQUIRED CORE AND ELECTIVE COURSES

<u>Communications</u>		<u>Credits</u>
English Composition I	COM 101	3
English Composition II	COM 102	3
<u>Humanities</u>		
Humanities Electives	_____	3
	_____	3
<u>Social Science</u>		
Social Science Electives	_____	3
	_____	3
<u>HPE</u>		
Physical Education Elective	HPE _____	1-3
<u>Mathematics</u>		
Discrete Mathematics	MAT 113	3
Mathematics Electives	MAT _____	4
	MAT _____	4
<u>Mathematics or Business Electives</u>		
	_____	4
	_____	4
<u>Science</u>		
Science Electives	_____	4
	_____	4
<u>Computer Science</u>		
Intermediate Programming	CSC 111	4
Programming in "C"	CSC 201	4
Data Structures	CSC 202	4
Assembly Language	CSC 203	4
Programming in C++	CSC 205	4
<u>TOTAL MINIMUM CREDITS:</u>		66-68

Humanities: Art, Music, Foreign Language, Speech, Creative Writing, Journalism, Communications, Philosophy.

Social Sciences: History, Political Science, Economics, Sociology, Psychology, Education.

NOTE: Humanities, Social Science, and Mathematics Electives must be chosen from the approved list of General Education courses. Reference the College Catalog and/or the Counseling Office.

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