

<b>CCBC A.S. Computer Science</b>				
<b>Course Code</b>	<b>Course Title</b>	<b>UMBC Equivalency</b>	<b>UMBC GEP Met</b>	<b>Credits</b>
<b>General Requirements</b>				
CSIT111	Logic and OO Design	LLE - CMSC	SS	3
ENGL101	College Composition I	LLE - ENGL	AH	3
MATH251	Calculus I	MATH151 - Calculus and Analytic Geometry I (Grade of C or better)	M	4
<b>General Education Electives</b>				
Arts and Humanities			AH	3
Arts and Humanities			AH	3
Biological and Physical Sciences			S	3
Biological and Physical Sciences (one course must include a lab)			SL	4
ECON201	Introduction to Macro-economic Principles	ECON102 - Principles of Macroeconomics	SS	3
ECON202	Introduction to Micro-economic Principles	ECON101 - Principles of Microeconomics	SS	3
<b>Program Requirements</b>				
CSIT210	Introduction to Programming	IS147 - Computer Programming I, or CMSC201 - Computer Science for Majors I (Grade of C or better)		4
CSIT211	Advanced Programming	IS247 - Computer Programming II, or CMSC202 - Computer Science for Majors II		4
CSIT214	C++ Programming	CMSC202 - Computer Science for Majors II		4
MATH243	Discrete Mathematics	CMSC203 - Discrete Structures	M	4
MATH252	Calculus II	MATH152 - Calculus and Analytic Geometry II	M	4
MATH257	Linear Algebra	MATH221 - Introduction to Linear Algebra	M	4
<b>Program Electives: Choose two of the following - at least one must be a 4 credit class</b>				
CSIT212	Visual Basic Programming	IS246 - Topics in Programming Languages and Tools		4
ENGL102	College Composition II	ENGL100 - Composition	EN	3
<b>Additional Requirements</b>				
*ACDV101	Academic Development: Transition to College	Not Transferable		1
<b>Total Credits for A.S. Computer Science: *60-61</b>				
<b>Total Credits Articulated toward UMBC degree (maximum 60 credits): 60</b>				
*Completion of the one-credit ACDV101 course, Transitioning to College, went into effect spring 2010. If you are a credit student who is new to college (meaning you have not successfully completed college coursework at another institution(s)), you are required to take ACDV101 during your first semester at CCBC, thereby increasing the number of credits required for the degree by 1 credit.				

Symbol	Title	UMBC Graduation Requirements	Number of courses taken at CCBC that satisfy UMBC Graduation requirements	Number of courses still needed to satisfy UMBC Graduation requirements
EN	English Composition	1	1	0
AH	Arts & Humanities	3	3	0
SS	Social Sciences	3	3	0
C	Culture	1	0	1
L	Language*	201 Level	0	201 Level
M	Mathematics	1	4	0
S	Science	1	1	0
SL	Science (plus lab)	1	1	0
PE	Physical Education	2	0	2

\*Completion of a foreign language through the 201 level or demonstrated proficiency at that level. For example: completion of level 4 at high school level, AP, IB or CLEP credit or completion of a language through the 201 level at a regionally accredited college or university.

## IX. REVIEW LANGUAGE

As agreed by both parties, this agreement will be reviewed and updated every three years or whenever substantive changes in the program(s) occur at either CCBC or UMBC.

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