



**COMMUNITY COLLEGE OF BALTIMORE COUNTY  
AS IN COMPUTER SCIENCE  
TO UNIVERSITY OF MARYLAND UNIVERSITY COLLEGE  
BS IN COMPUTER SCIENCE  
TRANSFER GUIDE**

**CHECKLIST FOR FULFILLMENT OF DEGREE REQUIREMENTS See catalog for overview of all requirements.**

<input type="checkbox"/> 30 credits at UMUC, including at least half of the major and minor and 15 upper-level credits. <input type="checkbox"/> 45 upper-level credits, including half the credit for the major and for the minor. <input type="checkbox"/> All required courses <u>and</u> minimum number of credits for major and minor. <input type="checkbox"/> Prerequisites for major and minor courses, if needed.	<input type="checkbox"/> All General Education Requirements. <input type="checkbox"/> Grade of C or better in all courses for the major and minor. <input type="checkbox"/> Grade of C- or better for WRTG 101 <input type="checkbox"/> Overall GPA of at least 2.0. <input type="checkbox"/> At least half the credit for the major earned through graded coursework. <input type="checkbox"/> Total 120 credits.
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UMUC DEGREE REQUIREMENTS	CCBC COURSES	UMUC EQUIVALENCY	CCBC COURSES	CREDITS NEEDED AT UMUC
<b>COMMUNICATIONS</b>		<b>Credits:</b>		<b>6</b>
WRTG 101 (3)	ENGL 101	WRTG 101	3	6
WRTG 100A (3) <i>Or other 3-credit WRTG course except 288, 388, 486A, 486B, COMM 390 and 492. ENGL 102 and JOUR 201 apply</i>	ENGL 102 recom'd Program Elective	WRTG	3	
COMM 202 (3) <i>Or other communication, writing, or speech</i>				3
WRTG 393 (3) <i>Or other upper-level advanced writing</i>				3UL
<b>ARTS AND HUMANITIES</b>		<b>Credits:</b>		<b>6</b>
HUMN 100 (3) <i>Or other arts/humanities</i>	Arts & Humanities	Arts & Humanities	3	0
HIST 125 (3) <i>Or other arts/humanities</i>	Arts & Humanities	Arts & Humanities	3	
<b>BEHAVIORAL AND SOCIAL SCIENCES</b>		<b>Credits:</b>		<b>6</b>
ECON 103 (3) <i>Or other behavioral/social science</i>	Social & Behavioral Sciences except HIST, NAST, & LGST	Behavioral & Social Sciences	3	0
BEHS 103 (3) <i>Or other behavioral/social science</i>	Social & Behavioral Sciences except HIST, NAST, & LGST	Behavioral & Social Sciences	3	
<b>BIOLOGICAL AND PHYSICAL SCIENCES</b>		<b>Credits:</b>		<b>7</b>
BIOL 103 (4) <i>Or other biological/physical science with related lab</i>	Biological & Physical Sciences w/ lab	Lab Science	4	0
NSCI 100 (3) <i>Or other 3-credit biological/physical science</i>	Biological & Physical Sciences	Science	3	
<b>MATHEMATICS</b>		<b>Credits:</b>		<b>4</b>
MATH 140 (4) <i>Related requirement for major and GenEd course</i>	MATH 251	MATH 140	4	0
<b>INTERDISCIPLINARY OR EMERGING ISSUES</b>		<b>Credits:</b>		<b>3</b>
LIBS 150 (1)				1
IFSM 201 or CMST 301 (3)				3
CMIS 102 (3) <i>Prerequisite for major courses</i>	CSIT 111	CMIS 102	3	

**Legend/Notes**

- ◆ required course for the major or minor
  - \* course meets content requirement but not upper-level minimum
  - UL – UL stands for upper-level junior/senior courses and denotes the minimum upper-level credit that must be taken at UMUC for graduation
  - ^ only 21 credits of vocational technical are permitted for transfer at UMUC
- Courses placed in the ELECTIVES/MINOR section may meet degree requirements depending on which course the student takes from the list of courses offered for the associate's degree. Any credit applied to the associate's degree must also meet UMUC's transfer credit policy.

UMUC DEGREE REQUIREMENTS	CCBC COURSES	UMUC EQUIVALENCY	CCBC COURSES	CREDITS NEEDED AT UMUC
<b>COMPUTER SCIENCE MAJOR</b>	<b>Credits:</b>		<b>8</b>	<b>27</b>
◆ CMIS 141 Introductory Programming (3)	CSIT 210	CMIS 141	4	
◆ CMIS 242 Intermediate Programming (3)	CSIT 211	CMIS 242	4	
◆ CMIS 310 Computer Systems and Architecture (3)				3UL
◆ SDEV 300 Building Secure Web Applications (3)				3UL
◆ CMSC 350 Data Structures and Analysis (3)				3UL
◆ CMSC 330 Advanced Programming Languages (3)				3UL
◆ CMSC 335 Object-Oriented and Concurrent Programming (3)				3UL
◆ CMSC 430 Compiler Theory and Design (3)				3UL
◆ CMSC 451 Design and Analysis of Computer Algorithms (3)				3UL
◆ CMSC 412 Operating Systems (3)				3UL
◆ CMSC 405 Computer Graphics (3)				3UL
<b>CAPSTONE COURSE FOR MAJOR</b>	<b>Credits:</b>		<b>0</b>	<b>3</b>
◆ CMSC 495 Current Trends and Projects in Computer Science (3)	<b>MUST BE TAKEN AT UMUC</b>			3UL
<b>ADDITIONAL REQUIREMENTS</b>	<b>Credits:</b>		<b>8</b>	<b>0</b>
MATH 141 Calculus II (4) <i>Related requirement for major</i>	MATH 252	MATH 141	4	
CMSC 150 Discrete Structures (3) <i>Related requirement for major</i>	MATH 243	CMSC 150	4	
<b>ELECTIVES/MINOR</b>	<b>Credits:</b>		<b>12</b>	<b>20</b>
Choose any electives to meet degree requirements. Note minimum requirements for upper-level coursework.	CSIT 214	CMIS 315*	4	
	MATH 257	MATH 240	4	
See requirements of individual minor. Recommended minors: Cybersecurity or Mathematics	Program Electives	Electives	4	
Students who complete the bachelor's degree from UMUC in an appropriate major (Computer Science, English, History, or Social Science), and other students who have the appropriate coursework (including Biology, Mathematics), can reduce the total coursework for the Master of Arts in Teaching graduate degree by up to 12 credits. Please see a UMUC advisor or visit UMUC's website for more information.				
Upper-Level Electives at UMUC				12UL
Any Electives at UMUC				8
<b>Total Minimum Credits Needed for Graduation: 120</b>	<b>Total Credits:</b>		<b>60</b>	<b>60</b>