



**COMMUNITY COLLEGE OF BALTIMORE COUNTY  
AAS IN CYBERSECURITY  
TO UNIVERSITY OF MARYLAND UNIVERSITY COLLEGE  
BS IN COMPUTER NETWORKS AND CYBERSECURITY  
TRANSFER GUIDE**

<b>CHECKLIST FOR FULFILLMENT OF DEGREE REQUIREMENTS</b> 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.

UMUC DEGREE REQUIREMENTS	CCBC COURSES	UMUC EQUIVALENCY	CREDITS FROM CCBC	CREDITS NEEDED AT UMUC
<b>COMMUNICATIONS</b>	<b>Credits:</b>		<b>3</b>	<b>9</b>
WRTG 101 (3)	ENGL 101	WRTG 101	3	
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>				3
COMM 202 (3) <i>Or other communication, writing, or speech</i>				3
WRTG 393 (3) <i>Or other upper-level advanced writing GenEd course</i>				3UL
<b>ARTS AND HUMANITIES</b>	<b>Credits:</b>		<b>3</b>	<b>3</b>
HUMN 100 (3) <i>Or other arts/humanities</i>	Arts & Humanities	Arts & Humanities	3	
HIST 365 (3) <i>Or other upper-level arts/humanities</i>				3UL
<b>BEHAVIORAL AND SOCIAL SCIENCES</b>	<b>Credits:</b>		<b>3</b>	<b>3</b>
ECON 103 (3) <i>Or other behavioral/social science</i>	Social & Behavioral Sciences except LGST	Behavioral & Social Sciences	3	
GVPT 401 (3) <i>Or other upper-level behavioral/social science</i>				3UL
<b>BIOLOGICAL AND PHYSICAL SCIENCES</b>	<b>Credits:</b>		<b>4</b>	<b>3</b>
BIOL 103 (4) <i>Or other biological/physical science with related lab</i>	Biological & Physical Science w/ lab	Lab Science	4	
NSCI 362 (3) <i>Or other upper-level 3-credit biological/physical science</i>				3UL
<b>MATHEMATICS</b>	<b>Credits:</b>		<b>3</b>	<b>0</b>
MATH 106 (3) <i>or other approved math GenEd course (MATH 106, MATH 107, STAT 200, or more advanced MATH or STAT)</i>	MATH 163 recom'd or higher math	MATH 107	3	
<b>INTERDISCIPLINARY OR EMERGING ISSUES</b>	<b>Credits:</b>		<b>3</b>	<b>4</b>
LIBS 150 (1)				1
IFSM 201 (3) <i>Prerequisite to major course</i>				3
CMIS 111 (3) <i>Or another computing course appropriate to the academic major</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	CREDITS FROM CCBC	CREDITS NEEDED AT UMUC
<b>COMPUTER NETWORKS AND CYBERSECURITY MAJOR</b>				<b>Credits:</b>		<b>13</b>	<b>6</b>
◆ CMIT 202 Fundamentals of Computer Troubleshooting (3)							3
◆ CMIT 265 Fundamentals of Networking (3)				DCOM 101	CMIT 265	3	
◆ CMIT 320 Network Security (3)				DCOM 258	CMIT 320*	3	
◆ CMIT 350 Interconnecting Cisco Devices (3)				DCOM 220	CMIT 350*	4	
◆ CMIT 369 Installing and Configuring Windows Server (3)							3UL
◆ CMIT 391 Linux System Administration (3)				DCOM 142	CMIT 391*	3	
12 credits from CCJS 321 or any CMIT (a min of 9 credits must be upper-level) Recommended Areas of Focused Study				<b>Credits:</b>		<b>0</b>	<b>12</b>
<b>MICROSOFT</b>	<b>CISCO</b>	<b>NETWORK SECURITY</b>	<b>DIGITAL FORENSICS</b>				
◆ CMIT 370 Administering Windows Server (3)	◆ CMIT 451 Implementing Cisco IP Routing (3)	◆ CMIT 321 Ethical Hacking (3)	◆ CCJS 321 Digital Forensics in the Criminal Justice System (3)				3UL
◆ CMIT 371 Configuring Advanced Windows Server Services (3)	◆ CMIT 452 Implementing Cisco IP Switched Networks (3)	◆ CMIT 370 Administering Windows Server (3)	◆ CMIT 424 Digital Forensics Analysis and Application (3)				3UL
◆ CMIT 372 Designing and Implementing a Server Infrastructure (3)	◆ CMIT 453 Troubleshooting and Maintaining Cisco IP Networks (3)	◆ CMIT 451 Implementing Cisco IP Routing (3)	◆ CMIT 440 Mobile Forensics (3)				3UL
◆ CMIT 373 Implementing an Advanced Server Infrastructure (3)	◆ CMIT 454 Cisco CNNA Security (3)	◆ CMIT 425 Advanced Information Systems Security (3)	◆ CMIT 460 Network Forensics (3)				3UL
<b>CAPSTONE COURSE FOR MAJOR</b>				<b>Credits:</b>		<b>0</b>	<b>3</b>
◆ CMIT 495 Current Trends & Projects in Computer Networks & Security (3)				<b>MUST BE TAKEN AT UMUC</b>			3UL
<b>ELECTIVES/MINOR</b>				<b>Credits:</b>		<b>29</b>	<b>16</b>
<p>Choose any electives to meet degree requirements. Note minimum requirements for upper-level coursework.</p> <p>See requirements of individual minor. Recommended minors: Cybersecurity, Information Systems Management, Business Administration</p> <p>Recommended: IFSM 301 and MATH 140 (for those continuing to graduate school. Note prerequisite of MATH 108 or MATH 115)</p>				DCOM 217	CMIT	4	
				DCOM 218	CMIT	4	
				DCOM 219	CMIT	4	
				DCOM 252	IFSM 370*	3	
				DCOM 211	CMIT	3	
				DCOM 212	CSIA	3	
				DCOM 214	CSIA	4	
				DCOM 215	CMIT 321*	4	
Upper-Level Electives at UMUC							15UL
Any Electives at UMUC							1
<b>Total Minimum Credits Needed for Graduation: 120</b>				<b>Total Credits:</b>		<b>61</b>	<b>59</b>