

**HARFORD COMMUNITY COLLEGE
AAS IN INFORMATION ASSURANCE AND CYBERSECURITY
TO UNIVERSITY OF MARYLAND UNIVERSITY COLLEGE
BS IN COMPUTER NETWORKS AND CYBERSECURITY
TRANSFER GUIDE**

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

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| <ul style="list-style-type: none"> <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. | <ul style="list-style-type: none"> <input type="checkbox"/> Grade of C- or better in WRTG 112 <input type="checkbox"/> Grade of C or better in all courses for the major and minor. <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	HCC COURSES	UMUC EQUIVALENCY	CREDITS FROM HCC	CREDITS NEEDED AT UMUC
COMMUNICATIONS	Credits:		3	9
WRTG 112 (3) <i>Required GenEd course. Must be completed with a grade of C- or better</i>	ENG 101(GE)	WRTG 112	3	
WRTG 111 (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
SPCH 100 (3) <i>Or other communication, writing, or speech GenEd course</i>				3
WRTG 393 (3) <i>or other UL advanced writing (WRTG 391 or WRTG 394)</i>				3UL
ARTS AND HUMANITIES	Credits:		3	3
HIST 125 (3) <i>Or other arts/humanities GenEd course</i>	PHIL 221 (GH)	BMGT 496*	3	
HUMN 344 (3) <i>Or other UL arts/humanities GenEd course</i>				3UL
BEHAVIORAL AND SOCIAL SCIENCES	Credits:		3	3
ECON 103 (3) <i>Or other behavioral/social science GenEd course</i>	Behavioral/ Social Science Elective (GB) and (D)	Behavioral & Social Sciences	3	
GVPT 403 (3) <i>Or other UL behavioral/social science GenEd course</i>				3UL
BIOLOGICAL AND PHYSICAL SCIENCES	Credits:		4	3
BIOL 101/102 or NSCI 100/101 (4) <i>Or other biological/physical science GenEd course with related lab</i>	Biological/ Physical Lab Science Elective (GL)	Lab Science	4	
GEOL 100 (3) <i>Or other 3-credit biological/physical science GenEd course</i>				3
MATHEMATICS	Credits:		3	0
MATH 106 (3) <i>or other approved math GenEd course (MATH 106, MATH 107, STAT 200, or more advanced MATH or STAT)</i>	MATH 101 or 111 (GM) Recom'd Math Elective	MATH 106 or MATH 107	3	
INTERDISCIPLINARY OR EMERGING ISSUES	Credits:		6	1
LIBS 150 (1) <i>GenEd course</i>				1
IFSM 201 (3) <i>First computing GenEd course</i>	CIS 102 (GI)	IFSM 201	3	
CMIS 111 (3) <i>Or other second computing GenEd course</i>	CIS 104	CMSC	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 (300- or 400- level) & denotes the minimum upper-level credit that must be taken at UMUC for graduation

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				HCC COURSES	UMUC EQUIVALENCY	CREDITS FROM HCC	CREDITS NEEDED AT UMUC
COMPUTER NETWORKS AND CYBERSECURITY MAJOR (33 cr.)				Credits:		10	9
◆ CMIT 202 Fundamentals of Computer Troubleshooting (3)							3
◆ CMIT 265 Fundamentals of Networking (3)				CIS 135	CMIT 265	3	
◆ CMIT 320 Network Security (3)				CIS 210	CMIT 320*	3	
◆ CMIT 350 Interconnecting Cisco Devices (3)				ISS 214	CMIT 350*	4	
◆ CMIT 369 Windows Server: Install and Storage (3)							3UL
◆ CMIT 391 Linux System Administration (3)							3UL
9 upper-level credits chosen from CCJS 321 or any Upper-Level CMIT 3 any-level credits chosen from any CMIT or CCJS 321 Recommended Areas of Focused Study				Credits:		0	12
MICROSOFT	CISCO	NETWORK SECURITY	DIGITAL FORENSICS				
◆ CMIT 370 Windows Server: Networking (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 Windows Server: Identity (3)	◆ CMIT 452 Implementing Cisco IP Switched Networks (3)	◆ CMIT 370 Windows Server: Networking (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 CCNA Security (3)	◆ CMIT 425 Advanced Information Systems Security (3)	◆ CMIT 460 Network Forensics (3)				3UL
CAPSTONE COURSE FOR MAJOR				Credits:		0	3
◆ CMIT 495 Current Trends & Projects in Computer Networks & Cybersecurity (3)				MUST BE TAKEN AT UMUC			3UL
ELECTIVES/MINOR				Credits:		28	17
Choose any courses to meet 120 credits for degree. Note minimum requirements for upper-level coursework. Complete in last 60 credits along with major and minor courses. Recommended: MATH 140 Calculus I and IFSM 301				ISS 105	CSIA	3	
				CIS 211	CMIT	3	
				ISS 111	CMIT	4	
				ISS 112	CMIT	4	
				ISS 213	CMIT	4	
				ISS 220	CMIT	3	
				Physical Education	Elective	1	
				ISS 221	CMIT	3	
				ISS 222	CMIT	3	
Upper-Level Electives at UMUC							15UL
Any Electives at UMUC							2
Total Minimum Credits Needed for Graduation: 120				Total Credits:		60	60