MONTGOMERY COLLEGE
AA IN INFORMATION SCIENCE & SYSTEM TRACKS, COMPUTER SCIENCE & TECHNOLOGIES
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.

- ❑ 30 credits at UMUC, including at least half of the major and minor and 15 upper-level credits.
- ❑ 45 upper-level credits, including half the credit for the major and for the minor.
- ❑ All required courses and minimum number of credits for major and minor.
- ❑ Prerequisites for major and minor courses, if needed.

- ❑ All General Education Requirements.
- ❑ Grade of C or better in all courses for the major and minor.
- ❑ Grade of C- or better for WRTG 101
- ❑ Overall GPA of at least 2.0.
- ❑ At least half the credit for the major earned through graded coursework.
- ❑ Total 120 credits.

UMUC DEGREE REQUIREMENTS	MC COURSES	UMUC EQUIVALENCY	CREDITS FROM MC	CREDITS NEEDED AT UMUC
COMMUNICATIONS		**Credits:**	**9**	**3**
WRTG 101 (3)	ENGL 102 or ENGL 103	WRTG 101	3	
WRTG 100A (3) *Or other 3-credit WRTG course except 288, 388, 486A, 486B. COMM 390, 492, ENGL 102 and JOUR 201 apply*	ENGL 101	WRTG	3	
COMM 202 (3) *Or other communication, writing, or speech*	COMM 108 or 112	SPCH 100 or SPCH	3	
WRTG 393 (3) *Or other upper-level advanced writing GenEd course*				3UL
ARTS AND HUMANITIES		**Credits:**	**6**	**0**
HUMN 100 (3) *Or other arts/humanities*	Arts Distribution	Arts & Humanities	3	
HIST 125 (3) *Or other arts/humanities*	Arts or Humanities Distribution	Arts & Humanities	3	
BEHAVIORAL AND SOCIAL SCIENCES		**Credits:**	**6**	**0**
ECON 103 (3) *Or other behavioral/social science*	Behavioral & Social Sciences Distribution	Behavioral & Social Sciences	3	
BEHS 103 (3) *Or other behavioral/social science*	Behavioral & Social Sciences Distribution from a 2nd discipline	Behavioral & Social Sciences	3	
BIOLOGICAL AND PHYSICAL SCIENCES		**Credits:**	**7**	**0**
BIOL 103 (4) *Or other biological/physical science with related lab*	Natural Sciences Distribution with Lab	Lab Science	4	
NSCI 100 (3) *Or other 3-credit biological/physical science*	Natural Sciences Distribution	Science	3	
MATHEMATICS		**Credits:**	**3**	**0**
MATH 106 (3) *or other approved math GenEd course (MATH 106, MATH 107, STAT 200, or more advanced MATH or STAT)*	MATH 110 Recom'd Mathematics Foundation	MATH 106	3	
INTERDISCIPLINARY OR EMERGING ISSUES		**Credits:**	**3**	**4**
LIBS 150 (1)				1
IFSM 201 (3) *Prerequisite to major course*	CMSC 110	IFSM 201	3	
CMIS 111 (3) *Or another computing course appropriate to the academic major*				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				MC COURSES	UMUC EQUIVALENCY	CREDITS FROM MC	CREDITS NEEDED AT UMUC
COMPUTER NETWORKS AND CYBERSECURITY MAJOR					**Credits:**	**0**	**18**
◆ CMIT 202 Fundamentals of Computer Troubleshooting (3)							3
◆ CMIT 265 Fundamentals of Networking (3)							3
◆ CMIT 320 Network Security (3)							3UL
◆ CMIT 350 Interconnecting Cisco Devices (3)							3UL
◆ CMIT 369 Installing and Configuring Windows Server (3)							3UL
◆ CMIT 391 Linux System Administration (3)							3UL
12 credits from CCJS 321 or any CMIT (a min of 9 credits must be upper-level) Recommended Areas of Focused Study							
MICROSOFT	**CISCO**	**NETWORK SECURITY**	**DIGITAL FORENSICS**		**Credits:**	**0**	**12**
◆ 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)				3
◆ 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
CAPSTONE COURSE FOR MAJOR					**Credits:**	**0**	**3**
◆ CMIT 495 Current Trends & Projects in Computer Networks & Security (3)				**MUST BE TAKEN AT UMUC**			3UL
ELECTIVES/MINOR					**Credits:**	**26**	**20**
Choose any electives to meet degree requirements. Note minimum requirements for upper-level coursework.				CMSC 140	CMIS	3	
				Electives	Electives	17	
See requirements of individual minor. Recommended minors: Cybersecurity, Information Systems Management, Business Administration				CMSC 243	IFSM 461*	3	
				Humanities Distribution	Elective	3	
Recommended: IFSM 301 and MATH 140 (for those continuing to graduate school. Note prerequisite of MATH 108 or MATH 115)							
Upper-Level Electives at UMUC							18UL
Any Electives at UMUC							2
Total Minimum Credits Needed for Graduation: 120				**Total Credits:**		**60**	**60**