



**HARPER ASSOCIATE IN APPLIED SCIENCE IN  
INFORMATION TECHNOLOGY – NETWORK ADMINISTRATION**

See community college advisor for course sequencing. Degree requirements may change based on date of initial enrollment at UMGC.



**UMGC BACHELOR OF SCIENCE IN CYBERSECURITY TECHNOLOGY**

**UMGC National Community College Alliances**

CREDITS	HARPER COLLEGE Requirements for Associate's Degree	UNIVERSITY OF MARYLAND GLOBAL CAMPUS Requirements for Bachelor's Degree
3	ENG 101 Gen Ed requirement	WRTG elective (Gen Ed Communications)
3	MTH 165 recom'd Mathematics Gen Ed requirement	STAT 200 (Gen Ed Mathematics)
3	NET 105 Program requirement	CMST elective (Gen Ed Computing)
3	NET 111 Program requirement	CMIT elective
3	NET 112 Program requirement	◆ CMIT 202 (required for the major)
3	CAS 160 Program requirement	IFSM elective
3	ENG 102 Gen Ed requirement	WRTG 112 (Gen Ed Communications; <i>must be completed with 'C-' or better</i> )
3	NET 121 Program requirement	◆ CMIT 265 (required for the major)
3	NET 201 Program requirement	CMIT elective
3	WEB 110 or WEB 150 Program requirement	CMST 385* or CMST 386* (elective)
3	CIS 106 Program requirement	CMSC 105 (elective)
3	NET 240 Program requirement	◆ CMIT 291 (required for the major)
3	NET 260 Program requirement	CMIT 369* (elective)
3	Program elective	Elective
3	SPE 101 Gen Ed requirement	SPCH 101 (Gen Ed Communications)
3	NET 270 Program requirement	CMIT 352*
3	NET 280 Program requirement	◆ CMIT 320* (required for the major)
3	NET 290 Program requirement	CMIT 326*
3	Program elective	Elective
3	SOC 101 Gen Ed requirement	SOCY 100 (Gen Ed Behavioral & Social Science)
<b>60</b>	<b>Total Credits Transferred</b>	<b>Total Credits Transferred</b>

REMAINING REQUIREMENTS FOR BACHELOR'S DEGREE	CREDITS
LIBS 150 Introduction to Research or other Gen Ed credit (to be fulfilled with 1 Gen Ed credit from Harper)	---
PACE 111T Program and Career Exploration in Technology or other PACE 111	3
NUTR 100 Elements of Nutrition or other Gen Ed Biological & Physical Science	3
HIST 125 Technological Transformations or other Gen Ed Arts & Humanities	3
BIOL 103 Introduction to Biology or other Gen Ed Biological & Physical Lab Science	4
ARTH 334 Understanding Movies or other Gen Ed Arts & Humanities	3
ECON 103 Economics in the Information Age or other Gen Ed Behavioral & Social Science	3
◆ CMIT 321 Ethical Hacking (required for the major)	3UL
◆ CMIT 351 Switching, Routing, and Wireless Essentials (required for the major)	3UL
Elective	3
◆ CMIT 326 Cloud Technologies (required for the major)	3UL
WRTG 393 Advanced Technical Writing or other upper-level writing (Gen Ed Communications)	3UL
Elective (must be taken upper-level)	3UL
◆ CMIT 421 Threat Management and Vulnerability Assessment or other upper-level CMIT (required for the major)	3UL
Elective (must be taken upper-level)	3UL
◆ CMIT 386 Penetration Testing and Cyber Red Teaming or other upper-level CMIT (required for the major)	3UL
Elective (must be taken upper-level)	3UL
◆ CCJS 321 Digital Forensics in the Criminal Justice System or any upper-level CMIT (required for the major)	3UL
Elective (must be taken upper-level)	3UL
◆ CMIT 495 Current Trends and Projects in Computer Networks and Cybersecurity (required capstone for the major)	3UL
Elective	2
<b>TOTAL CREDITS REMAINING AT UMGC</b>	<b>60</b>

**NOTES:** Minimum of 120 credits, including 36 upper-level required for bachelor's degree with minimum 2.0 (C) grade point average (GPA) / Minimum of 30 UMGC resident credits of which at least 15 must be upper-level / At least one-half of credits within major and minor comprised of: a. upper-level; b. UMGC resident; c. traditional college courses earning a grade / No course within major or minor below 2.0 GPA (C) / Maximum of 70 transfer credits to UMGC from 2-year or community college (actual number of transfer credits dependent on meeting all UMGC bachelor's degree requirements) / WRTG 112 completed with grade of 1.67 GPA (C-) or better / ◆<sup>1</sup> = Course in major at UMGC / \*<sup>2</sup> = Lower-level course meets content requirement of upper-level course but does not transfer as upper-level / UL<sup>3</sup> = Upper-level course (numbered 300-499)

<sup>1</sup> ◆ Course in major at UMGC

<sup>2</sup> \* Lower-level course meets content requirement of upper-level course but does not transfer as upper-level

<sup>3</sup> UL Upper-level course (numbered 300-499)