MONTGOMERY COLLEGE
AA IN INFORMATION SCIENCE & SYSTEM TRACKS, COMPUTER SCIENCE & TECHNOLOGIES TO UNIVERSITY OF MARYLAND UNIVERSITY COLLEGE BS IN SOFTWARE DEVELOPMENT AND SECURITY 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*				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 or CMST 301 (3)	CMSC 110	IFSM 201	3	
CMIS 102 (3) *Prerequisite for major courses*				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
SOFTWARE DEVELOPMENT AND SECURITY MAJOR		**Credits:**	**0**	**30**
◆ CMIS 141 Introductory Programming (3)				3
◆ CMIS 242 Intermediate Programming (3)				3
◆ CMIS 320 Relational Database Concepts and Applications (3)				3UL
◆ SDEV 300 Building Secure Web Applications (3)				3UL
◆ SDEV 325 Detecting Software Vulnerabilities (3)				3UL
◆ SDEV 350 Database Security (3)				3UL
◆ SDEV 360 Secure Software Engineering (3)				3UL
◆ SDEV 400 Secure Programming in the Cloud (3)				3UL
◆ SDEV 425 Mitigating Software Vulnerabilities (3)				3UL
◆ SDEV 460 Software Security Testing (3)				3UL
CAPSTONE COURSE FOR MAJOR		**Credits:**	**0**	**3**
◆ CMSC 495 Current Trends & Projects in Computer Science (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.	Humanities Distribution	Elective	3	
	CMSC 243	IFSM 461*	3	
Upper-Level Electives at UMUC				15UL
Any Electives at UMUC				5
Total Minimum Credits Needed for Graduation: 120		**Total Credits:**	**60**	**60**