



**MONTGOMERY COLLEGE
MONTGOMERY COLLEGE
AA IN COMPUTER SCIENCE
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.

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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. | <ul style="list-style-type: none"> <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. |
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UMUC DEGREE REQUIREMENTS	MC COURSES	UMUC EQUIVALENCY	CREDITS FROM MC	CREDITS NEEDED AT UMUC
COMMUNICATIONS		Credits:		9
			3	3
WRTG 101 (3)	ENGL 102 or ENGL 103	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>	ENGL 101	WRTG	3	
COMM 202 (3) <i>Or other communication, writing, or speech</i>	COMM 108 or 112	SPCH 100 or SPCH	3	
WRTG 393 (3) <i>Or other upper-level advanced writing</i>				3UL
ARTS AND HUMANITIES		Credits:		6
			3	0
HUMN 100 (3) <i>Or other arts/humanities</i>	Arts Distribution	Arts & Humanities	3	
HIST 125 (3) <i>Or other arts/humanities</i>	Arts or Humanities Distribution	Arts & Humanities	3	
BEHAVIORAL AND SOCIAL SCIENCES		Credits:		6
			3	0
ECON 103 (3) <i>Or other behavioral/social science</i>	Behavioral & Social Sciences Distribution	Behavioral & Social Sciences	3	
BEHS 103 (3) <i>Or other behavioral/social science</i>	Behavioral & Social Sciences Distribution from a 2nd discipline	Behavioral & Social Sciences	3	
BIOLOGICAL AND PHYSICAL SCIENCES		Credits:		7
			4	0
BIOL 103 (4) <i>Or other biological/physical science with related lab</i>	Natural Sciences Distribution with Lab	Lab Science	4	
NSCI 100 (3) <i>Or other 3-credit biological/physical science</i>	Natural Sciences Distribution	Science	3	
MATHEMATICS		Credits:		4
			4	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 181	MATH 140	4	
INTERDISCIPLINARY OR EMERGING ISSUES		Credits:		3
			3	4
LIBS 150 (1)				1
IFSM 201 or CMST 301 (3)	CMSC 110 Recom'd Program Elective	IFSM 201	3	
CMIS 102 (3) <i>Prerequisite for major courses</i>				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:		8	24
◆ CMIS 141 Introductory Programming (3)	CMSC 203	CMIS 141	4	
◆ CMIS 242 Intermediate Programming (3)	CMSC 204	CMIS 242	4	
◆ 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:		17	26
Choose any electives to meet degree requirements. Note minimum requirements for upper-level coursework. See requirements of individual minor.	CMSC 140	CMIS	3	
	MATH 182	MATH 141	4	
	Humanities Distribution	Elective	3	
	CMSC 207	CMSC 150	4	
	Program Elective	Elective	3	
	Upper-Level Electives at UMUC			
Any Electives at UMUC				11
Total Minimum Credits Needed for Graduation: 120	Total Credits:		60	60