

MONTGOMERY COLLEGE AA IN INFORMATION SCIENCE & SYSTEM TRACKS, COMPUTER SCIENCE & TECHNOLOGIES TO UNIVERSITY OF MARYLAND UNIVERSITY COLLEGE BS IN COMPUTER SCIENCE TRANSFER GUIDE

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

All General Education Requirements. 30 credits at UMUC, including at least half of the major and minor and 15 upper-level Grade of C or better in all courses for the major and minor. 45 upper-level credits, including half the credit for the major and for the minor. Grade of C- or better for WRTG 101 All required courses and minimum number of credits for major and minor. Overall GPA of at least 2.0. Prerequisites for major and minor courses, if needed. 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:	4	0
MATH 140 (4) Related requirement for major and GenEd course	MATH 181 Recom'd Mathematics Foundation	MATH 140	4	
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
COMPUTER SCIENCE MAJOR		Credits:	0	33
◆ CMIS 141 Introductory Programming (3)				3
◆ CMIS 242 Intermediate Programming (3)				3
◆ CMIS 310 Computer Systems and Architecture (3)				3UL
◆ SDEV 300 Building Secure Web Applications (3)				3UL
◆ CMSC 350 Data Structures and Analysis (3)				3UL
◆ CMSC 330 Advanced Programming Languages (3)				3UL
◆ CMSC 335 Object-Oriented and Concurrent Programming (3)				3UL
◆ CMSC 430 Compiler Theory and Design (3)				3UL
◆ CMSC 451 Design and Analysis of Computer Algorithms (3)				3UL
◆ CMSC 412 Operating Systems (3)				3UL
◆ CMSC 405 Computer Graphics (3)				3UL
CAPSTONE COURSE FOR MAJOR		Credits:	0	3
◆ CMSC 495 Current Trends and Projects in Computer Science (3)	MUST BE TAKEN AT UMUC			3UL
ADDITIONAL REQUIREMENTS		Credits:	4	4
MATH 141 Calculus II (4) Related requirement for major				4
CMSC 150 Discrete Structures (3) Related requirement for major	CMSC 207 Recom'd Elective	CMSC 150	4	
ELECTIVES/MINOR		Credits:	21	13
Choose any electives to meet degree requirements. Note minimum requirements for upper-level coursework.	CMSC 140	CMIS	3	
See requirements of individual minor. Recommended minors: Cybersecurity or Mathematics	Electives	Electives	12	
	CMSC 243	IFSM 461*	3	
	Humanities Distribution	Arts & Humanities	3	
Upper-Level Electives at UMUC				12UL
Any Electives at UMUC				1
Total Minimum Credits Needed for Graduation: 120		Total Credits:	60	60