

4 Year Program Articulation Pathway

W UMBC

Catalog 2020-2021

	Course	Credits	Course	Credits
its	ENGL101 (if needed for ENGL102/103, or elective)	3	English Foundation: ENGL102 or ENGL103	3
ed	CMSC140 - Introduction to Programming	3	*MATH182 - Calculus II	4
ŭ	*MATH181 - Calculus I	4	**Foreign Language 102 (HUMD)	3
4	**Foreign Language 101 (GEIR)	3	CMSC226 - Intro to Object-Oriented Programming with C++	3
0-3	†Behavioral and Social Science Distribution	3	COMM108 or COMM112 (GEIR)	3
)	Total	16	Total	16
S	Course	Credits	Course	Credits
dits	***CMSC203 - Computer Science I	4	^ Science Sequence (NSND)	4
=	**Foreign Language 201	3	***CMSC204 - Computer Science II	4
உ				
cre	^ Science Sequence (NSLD)	4	***CMSC207 - Introduction to Discrete Structures	4
70 cre		4	***CMSC207 - Introduction to Discrete Structures †Behavioral and Social Science Distribution	3
၁ 0	^ Science Sequence (NSLD)			

Articulation Notes:

- * Course can be used to satisfy UMBC major requirements when completed with a "C" or better. Students who have more than two attempts in any course required to progress in the major will not be permitted to major in Computer Science at UMBC (a withdrawal is considered an attempt).
- ** Foreign Language Requirement: UMBC's language requirement consists of completion of a foreign language through the 201 level or demonstrated proficiency at that level. The proficiency requirement is met by previous experience as follows: 1) completion of level 4 or higher of a language in high school, or 2) corresponding AP, IB or CLEP credit, or 3) completion of a language through the 201 level at a regionally accredited college or university. The Shady Grove and will permit the transfer of up to 66 credits, instead of the standard 60-credit transfer limit, from a Maryland two-year school to UMBC on the condition that six (6) of the 66 credits are language courses directly applicable toward the 201-level language sequence required as part of the UMBC general education program.
- *** Students are admitted to the UMBC Computer Science program only when they complete all three of the following Gateway courses: CMSC 203 and CMSC 204 with grades of B or higher, and CMSC207 with a grade of C or higher. Students who have more than two attempts in any course required to progress in the major will not be permitted to major in Computer Science at UMBC (a withdrawal is considered an attempt).
- ^ Science Sequence: To meet UMBC major requirements, students need to complete a science sequence plus a lab with a "C" or better. The science sequence plus a lab can be satisfied by completing one of the following sequences: BIOL150 + BIOL151, or PHYS161 + PHYS262, or CHEM131 + CHEM132.
- † To meet Montgomery College graduation requirements, courses must come from different disciplines.

Computer Science, Cybersecurity, B.S.

	Fall Semester		Spring Semester	
<u>.</u>	Course	Credits	Course	Credits
7	CMSC313 - Computer Organization & Assembly Language	3	CMSC331 - Programming Languages	3
	CMSC341 - Data Structures	3	CMSC421 - Operating Systems	3
6	e	3	CMSC426 - Computer Security	3
	Social Science GEP Requirement	3	CMSC 481 - Computer Networks	3
B		0-3	Elective	3
$\mathbf{\overline{\Sigma}}$	Total	12-15	Total	15
	Course	Credits	Course	Credits
ー 岩	CMSC411 - Computer Architecture	3	CMSC304 - Social & Ethical Issues in IT	3
9	CMSC4xx Elective (select from CYBR list)	3	CMSC441 - Algorithms	3
	CMSCAvy Flective (select from CVRR list)	3	CMSC447 - Software Engineering I	3
6	CMSC4xx Elective	3	Upper Level Elective	3
	CMSC4xx Elective STAT355 - Probability & Statistics	3 4	Upper Level Elective Elective (if needed)	3 0-3

With questions at Montgomery College, schedule an appointment with a counselor using Starfish With questions at UMBC's Shady Grove campus, Jeannette Kartchner at jkartch@umbc.edu

With questions at UMBC, contact Jeremy Dixon at jdixon@umbc.edu

Updated: 7/16/2020