Suggested Transfer Pathway
Montgomery College A.A. in Computer Science to
Virginia Polytechnic and State University B.S. in Computer Science

Total Credits: 62, Catalog Year: 2022-2023

0 - 30 Credits – Montgomery College

(Courses may be taken in any order, pending prerequisites)

	Cr
ENGL101 College Writing (or Elective)	3
CMSC140 Introduction to Programming	3
MATH181 Calculus I	4
Arts Distribution (ARTD)	3
Behavioral and Social Sciences Distribution **	3
Total Credits	**16**

	Cr
ENGL102 Critical Reading, Writing and Research	3
MATH182 Calculus II	4
CMSC203 Computer Science I	4
Arts/Humanities (ARTD/HUMD) or Health course (HLTH)	3
Total Credits	**14**

31 - 62 Credits – Montgomery College

	Cr
CMSC204 Computer Science II	4
CHEM131 Principles of Chemistry (NSLD)	4
Behavioral and Social Sciences Distribution*	3
Humanities Distribution (HUMD	3
Program Elective (MATH280 suggested)	3
Total Credits	**17**

	Cr
COMM108 Foundations of Human Communication (GEIR)	3
CHEM132 Principles of Chemistry II	4
CMSC207 Introduction to Discrete Structures	4
Program Elective (MATH 284 suggested)	4
Total Credits	**15**

Apply to graduate from Montgomery College with an Associate of Science in Computer Science

* BSSD courses must come from different disciplines.

Year Three – Virginia Tech

Fall Semester	Cr
MATH3134 Combinatorics	3
CS2506 Intro to Computer Organization II	3
CS3114 Data Structures and Algorithms	3
CLE (Areas 2,3, or 7)	3
Professional Writing Elective	3
Total Credits	**16**

Spring Semester	Cr
Statistics Elective	3
CS3214 Computer Systems	3
Upper-level CS Elective	3
CS3604 Professionalism in Computing	3
CLE (Areas 2, 3, or 7)	3
Total Credits	**15**

Year Four – Virginia Tech

Fall Semester	Cr
CS3304 Comparative Languages	3
CS41X4 Theory Course	3
Upper-level CS Elective	3
CS Technical Elective	3
Free Elective	3
Total Credits	**15**

Spring Semester	Cr
CS4944 Senior Seminar	1
CS4XXX Capstone	3
CS4XXX Elective	3
CLE (Area 6)	3
Free Elective	4
Total Credits	**14**

CLE Area 2: Ideas, Cultural Traditions, Values electives
CLE Area 3: Society & Human Behavior electives
CLE Area 6: Creativity & Aesthetic Experience elective
CLE Area 7: Global Issues Elective
If a CLE course is double-counted to satisfy two different CLE areas, a free elective(s) must be taken to maintain a minimum of 123

MC A.A. in Computer Science to Virginia Tech B.S. in Computer Science

Total Credits: 62, Catalog Year 2022-2023

Name:		Date:	ID#	
General Education Courses	**COURSE**	**HRS**	**GRADE**	
English Foundation (ENGL102, Critical Reading, Writing and Research)	ENGL102	3		
Math Foundation (Calculus I)	MATH181	4		
Distribution Courses	**COURSE**	**HRS**	**GRADE**	
NSND: Principles of Chemistry	CHEM131	4		
NSLD: Principles of Chemistry II	CHEM132	4		
Arts Distribution		3		
Behavioral and Social Sciences Distribution *		3		
Behavioral and Social Sciences Distribution *		3		
Humanities Distribution		3		
General Education Elective	**COURSE**	**HRS**	**GRADE**	
Foundations of Human Communication	COMM108	3		
Program Requirements	**COURSE**	**HRS**	**GRADE**	
ENGL101 (if needed for ENGL102/ENGL103, general elective if not)		3		
Calculus II	MATH182	4		
Arts/Humanities (ARTD/HUMD) or Health course (HLTH)				
Area of Concentration Requirements	**COURSE**	**HRS**	**GRADE**	
Introduction to Programming	CMSC140	3		
Computer Science I	CMSC203	4		
Computer Science II	CMSC204	4		
Introduction to Discrete Structures	CMSC207	4		
Program Elective (MATH280 suggested)		3		
Program Elective (MATH284 suggested)		4		

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Equivalency Chart

MC Course	Credits	VT Course	Credits
CMSC 140 Intro to Programming	3	CS1044 Intro to Programming in C	3
ENGL101 Intro to College Writing (ENGF)	3	First-Year Writing	3

MATH181 Calculus I (MATF)	4	Calculus of a Single Variable	4
Arts Distribution (ARTD)	3	Pathways 6A	3
Behavioral and Social Sciences Distribution (BSSD)*	3	Pathways 3	
CMSC203 Computer Science I	4	CS114 Intro to Software Design	3
MATH182 Calculus II	4	MATH1226 Calculus of a Single Variable	4
ENGL102 Critical Reading/Writing/Research (ENGF)	3	First-Year Writing	3
Art/Humanities Distribution (ARTD/HUMD) or Health Course (HLTH)	3	Pathways 2 or 7	3
CMSC204 Computer Science II	4	CS2114 Software Design and Data Structure	3
Humanities Distribution (HUMD)	3	Pathways 2	
CHEM131 Principles of Chemistry I (NSLD)	4	CHEM 1035+1045 General Chemistry+Lab	4
Program Elective (MATH280)	3	MATH2204 Multivariable Calculus	3
COMM108 Foundations of Human Communication (GEIR)	3	COMM2004 Public Speaking	3
CMSC207 Introduction to Discrete Structures	4	MATH2534 Intro to Discrete Math	3
Behavioral and Social Sciences Distribution (BSSD)*	3	Pathways 3	3
CHEM132 Principles of Chemistry II (NSLD)	4	CHEM1036+1046 General Chemistry+Lab	4
Program Elective (MATH284)	4	MATH2114 Linear Algebra	3

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