

Santa Fe Community College
Bachelor of Science in Computer Science



**ARTICULATION TRANSFER MATRIX BETWEEN
SANTA FE COMMUNITY COLLEGE
AND
NEW MEXICO HIGHLANDS UNIVERSITY**



SFCC Associate in Science - Computer Science			NMHU Bachelor of Science in Computer Science		
General Education - 39 Credits			<i>SFCC students who earn the Computer Science (Associate in Science) degree as prescribed in this document will be admitted to NMHU as Juniors in the Computer Science (BS) degree program. Furthermore, the additional NMHU core curriculum requirements and minor requirements, if any, are waived. Students are encouraged to complete the admissions process and begin taking NMHU courses once their sophomore status is achieved. Upon completion of the requirements specified within this agreement, students will have earned a SFCC Associate in Science Degree in Computer Science and a NMHU BS Computer Science degree. Any deviation from this prescribed agreement will require appropriate approval from SFCC and/or NMHU. Students must fulfill the minimum of 45 upper division credits (300/400 level courses to be completed at NMHU) and a minimum total of 120 credit hours.</i>		
Area I. Communications - 9 credits					
ENGL 111	Composition and Rhetoric	3			
ENGL 112	Composition and Literature	3			
ENGL 216	Technical Writing or	3			
SPCH 111 or	Public Speaking or				
Area II. Mathematics - 8 credits					
MATH 162	Calculus I	4			
MATH 163	Calculus II	4			
Area III. Laboratory Science - 12 credits					
Any Science and Lab courses			BS - Computer Science Requirements		
Any Science and Lab courses			CS 350	Prog Sem I	3
*Area IV. Social/Behavioral Sciences - 3 - 6 credits			CS 431	Database Mgmt	3
Any Social/Behavioral Science courses that satisfy core curriculum. (Areas IV and V must total 9 credits.)			CS 451	Software Engr	3
Any Social/Behavioral Science courses that satisfy core curriculum. (Areas IV and V must total 9 credits.)			CS 481	Sr. Project Design	1
*Area V. Humanities and Fine Arts - 3 - 6 credits			CS 482	Sr. Proj Implem	3
Any Humanities and Fine Arts courses that satisfy core curriculum. (Areas IV and V must total 9 credits.)			Computer Science Requirements Total		
Any Humanities and Fine Arts courses that satisfy core curriculum. (Areas IV and V must total 9 credits.)			13		
Area VI. Health and Wellness - 1 credit			Concentration in Software/Hardware Systems		
Any HPER Course			CS 341	Mach Arch and Assemb Lang Prog	3
Any HPER Course			CS 345	Data & File Struc	4
Core Requirements - 23 credits			CS 421	Adv Data Struct and Algorithm Dev	3
ISCS 120	Introduction to Programming I	4	CS 443	Operating Systems	3
ISCS 125	Introduction to Programming II	4	CS 450	Prog Sem 2	3
ISCS 215	Intermediate Programming	3	CS 461	Prog Lang	3
ISCS 225	Advanced Programming and Data Structures	3	CS Electives	Choose one of the following: CS 314, CS 316, CS 328, CS 418, CS 463, CS 471.	3
ISCS 241	Data Organization and Implementation	3	General Electives	Complete six credits of a 300-400 computer science, mathematics, biology, chemistry or physics or appropriate science courses with approval from major advisor.	6
MATH 261	Mathematical Foundations for Computer Science	3			
ISCS 273	Cyber Ethics	3			
*Note: Students participating with the agreement must complete ENGL 216 at SFCC or fulfill ENGL 367 at NMHU. Additionally, students must complete MATH 261 at SFCC or fulfill MATH 317 Discrete Math at NMHU.			Concentration in Software/Hardware Systems Total		
			28		
			Additional required courses		
			ENGR 384	Microprocessor Design	3
			MATH 320	Linear Algebra	3
			MATH 345	Math Statistics I	3
			Additional required courses		
			9		
			NMHU BS Computer Science Total Credit Hours		
			50		
			SFCC AA Requirements		
			62		
			General Electives Either at SFCC or NMHU		
			8		
AA Computer Science Total Credit Hours			Total Credit Hours		
62			120		
Signatures/Date					
Santa Fe Community College			New Mexico Highlands University		
 Department Chair			 3-23-2016 Department Chair		
 3-31-16 Dean			 23/March/16 Dean		
 VPAA			 3/23/16 VPAA		
Updated 03/16/2016					