

**Computer Science
Associate in Science
Four Semester Pathway Academic Year 2025-2026**

Semester 1	Requirement	Recommended	Prerequisites	Corequisites	Credits	My Plan
FIGS 100	Student Success Elective - Computer Science & Information Technology Pathway				1	
ENGL 100	English Composition		ENGL 080		3	
CSCI 110	Principles of Computer Science		MATH 040		4	
MATH 140 AND	College Algebra	MATH 040			3-4	
MATH 146 OR	Introduction to Trigonometry	MATH 040	MATH 040	MATH 140		
MATH 190	Precalculus*	Transfer Track	MATH 140 & MATH 146			
	Computer Science Elective OR	Career Track	See course prerequisites	See course corequisites	3	
MATH 225	Discrete Mathematics	Transfer Track	MATH 140 or higher, ENGL 080			
Semester 2						
ENGL 110	Oral Communications		ENGL 080		3	
CSCI 160	Object Oriented Design and Programming		CSCI 110		4	
	Social Science Elective 1		See course prerequisites	See course corequisites	3	
	Computer Science Elective OR	Career Track	See course prerequisites	See course corequisites	3	
	Social Science Elective 3	Transfer Track - See list on reverse side	See course prerequisites	See course corequisites		
MATH 225 OR	Discrete Mathematics	Career Track	MATH 140 or higher, ENGL 080		3-4	
MATH 260	Calculus I	Transfer Track	MATH 190			
Semester 3						
CSCI 250	Computer Science Elective OR	Career Track	See course prerequisites	See course corequisites	3-4	
	Computer Organization	Transfer Track	CSCI 110	CSCI 160		
CSCI 290	Data Structures		CSCI 160		4	
COMM 201	Technical Writing		ENGL 100		3	
	Social Science Elective 2	See list on reverse side	See course prerequisites		3	
	Science Elective with Lab		See course prerequisites	See course corequisites	4	
Semester 4						
ENGL 115	Introduction to Literature		ENGL 100 or ENGL 101		3	
	Computer Science Elective OR	Career Track	See course prerequisites	See course corequisites	3	
CSCI 296	Systems Programming in C	Transfer Track	CSCI 250, CSCI 290			
	Social Science Elective 3 OR	Career Track - See list on reverse side	See course prerequisites	See course corequisites	3-4	
	Science Elective with Lab 2*	Transfer Track See list on reverse side	See course prerequisites	See course corequisites		
MATH 270	Computer Science Elective OR	Career Track	See course prerequisites	See course corequisites	3-4	
	Calculus II	Transfer Track	MATH 260			
MATH 155	Statistics	Career Track ONLY	MATH 040		3	
				Total Credits	63	

*For students starting at the Pre-Calculus level, they can substitute a second Science Elective with Lab in the place of MATH 140 and MATH 146

<https://www.smccme.edu/choosingelectives>

Computer Science

General Education Requirements					
Course Code	Course Title	Prerequisites	Corequisites	Credits	Met
ENGL 100	English Composition	ENGL 080		3	
ENGL 115	Introduction to Literature	ENGL 100 or ENGL 101		3	
FIGS 100	Student Success Elective - Computer Science & Information Technology Pathway			1	
MATH 225	Discrete Mathematics	ENGL 080, MATH 140		3	
	Science Elective with Lab*			4	
ENGL 110	Oral Communications	ENGL 080		3	
	Social Science Elective 1			3	
	Social Science Elective 2**			3	
	Social Science Elective 3***			3	
Major Required Courses					
COMM 201	Technical Writing/Communications	ENGL 100 or ENGL 101		3	
CSCI 110	Principles of Computer Science	MATH 040		4	
CSCI 160	Object Oriented Design and Programming	CSCI 110		4	
CSCI 290	Data Structures	CSCI 160		4	

Select one area of focus from the following tracks:

Transfer Track					
MATH 190	Precalculus	MATH 140 & MATH 146		3	
MATH 260	Calculus I	MATH 190		4	
MATH 270	Calculus II	MATH 260		4	
CSCI 250	Computer Organization	CSCI 110	CSCI 160	4	
CSCI 296	Systems Programming in C	CSCI 250, CSCI 290		3	
	Science Elective with Lab*			4	

*Students in the Transfer Track should choose from: BIOL 124, BIOL 128, CHEM 120, CHEM 125, ENVR 110, PHYS 200, PHYS 250

**Social Science Elective 2: Choose from ANTH 105, HIST 120, HIST 125, POLS 100, POLS 212

***Social Science Elective 3: Choose from HIST 170, HIST 225, IDST 140, POLS 110, POLS 180, PSYC 235

Career Track					
MATH 140	College Algebra	MATH 040		3	
MATH 146	Introduction to Trigonometry	MATH 040	MATH 140	1	
MATH 155	Statistics	MATH 040		3	
	Computer Science Electives			15	

Computer Science Electives:

CNMS150 Introduction to iOS App Design

CNMS165 Website Production

CNMS265 Advanced Website Production

CNMS266 Scripting for the Web

CNMS275 Web Application Programming

MATH190 Pre-Calculus

MATH260 Calculus I

MATH270 Calculus II

CMIT100 Intro to Information Technology

CMIT105 Network Fundamentals

CMIT110 Database Fundamentals

CMIT120 Linux System Administration

CMIT135 Scripting for IT

CMIT140 Virtualization Fundamentals

CSCI230 Mobile Application Development

CSCI250 Computer Organization

CSCI260 Database Management Systems

CSCI265 C# Programming

CSCI275 Programming in C++

CSCI296 Systems Programming in C

CSCI298 Topics in Computer Science

ELEC130 Programmable Logic Controllers

GISS150 Intro to Geographic Info Systems

INSC160 Fundamentals of Network Security

INSC170 Computer Forensics

INSC260 Management of Information Security

INSC270 Information Security & Ethics

INSC275 Cyberlaw

INSC280 Ethical Hacking.