

Computer Science

The minimum number of credit hours for the Bachelor of Science in Computer Science is 132

Freshman (First Year)

First Semester			Second Semester		
CSC 101	Computer Essentials (CS)	3	AIU 100	The AIU Experience (EX)	1
GenEd	SS course	3	GenEd	SS course	3
ENG 101	College Writing (EC)	3	CSC 110	Problem Solving & Programming	3
MAT 121	Calculus I	4	CSC 111	Problem Solving & Programming Laboratory	1
PHY 120	Physics I (NS)	3	MAT 122	Calculus II	4
PHY 121	Physics I Laboratory (NS)	1	PHY 122	Physics II (NS)	3
Total Credit Hours		17	PHY 123	Physics II Laboratory (NS)	1
			Total Credit Hours		16

Sophomore (Second Year)

First Semester			Second Semester		
AIU 111/112	Wellness (WL)	1	CSC 220	Data Structures and Algorithms	3
CSC 210	Object-Oriented Programming	3	CSC 221	Data Structures and Algorithms Laboratory	1
CSC 211	Object-Oriented Programming Laboratory	1	EGR 150	Probability & Statistics in Engineering (MA)	3
CHM 110	General Chemistry I	3	ENG 301	Technical Writing (EC)	3
CHM 111	General Chemistry I Laboratory	1	MAT 200	Discrete Mathematics	3
MAT 221	Calculus III	4	PHL 112	Professional Ethics (AH)	3
EGR 100	Design In Engineering	3			
Total Credit Hours		16	Total Credit Hours		16

Junior (Third Year)

First Semester			Second Semester		
CSC 230	Programming with Python	3	AIU 300	Internship & Career Preparation (EX)	1
CSC 310	Computer Architecture and Organization	3	CSC 330	Computing Theory	3
CSC 315	Algorithm Design and Analysis	3	CSC 342	Computer Operating Systems	3
CSC 395	Computer Science Seminar	1	CSC 375	Web Technology	3
CSC 470	Database Management Systems	3	CSC 376	Web Technology Laboratory	1
CSC 471	Database Management Systems Laboratory	1	CSC 410	Introduction to Computer Networking	3
MAT 225	Elementary Linear Algebra	3	CSC 340	Software Engineering	3
Total Credit Hours		17	Total Credit Hours		17
			Summer Semester - EGR 490 Internship		1

Senior (Fourth Year)

First Semester			Second Semester		
CSC 411	Software Project Management	3	CSC 496	Senior Computer Project II	3
CSC 426	Computer Systems Security	3		Specialization Course 2	3
CSC 427	Computer Systems Security Laboratory	1		Specialization Course 3	3
CSC 435	Parallel and Distributed Computing	3	Gen Ed	AH course	3
CSC 495	Senior Computer Project I	1		Engineering Technical Elective	3
ENG 302	Technical Presentations (OC)	3			
	Specialization Course 1	3			
Total Credit Hours		17	Total Credit Hours		15

This is a recommended study plan for the Bachelor of Science in Computer Science.

Please see the 2026-2027 Undergraduate Catalog for a complete explanation of degree requirements.

