

Computer Science

The minimum number of credit hours for the Bachelor of Science in Computer Science is 128

Freshman (First Year)

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

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	EGR 150	Probability & Statistics in Engineering (MA)	3
CSC 250	Discrete Mathematics	3	ENG 301	Technical Writing (EC)	3
MAT 221	Calculus III	4	MAT 225	Elementary Linear Algebra	3
PHL 112	Professional Ethics (AH)	3	GenEd SS course		3
Total Credit Hours		14	Total Credit Hours		15

Junior (Third Year)

First Semester			Second Semester		
CSC 230	Programming in 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 410	Introduction to Computer Networking	3
ENG 302	Technical Presentations (OC)	3			
Total Credit Hours		16	Total Credit Hours		13
			Summer Semester - EGR 490 Internship		1

Senior (Fourth Year)

First Semester			Second Semester		
CSC 340	Software Engineering	3	CSC 496	Senior Project II	3
CSC 426	Computer Systems Security	3	Specialization course 2		3
CSC 435	Parallel and Distributed Computing	3	Specialization course 3		3
CSC 495	Senior Project I	1	GenEd AH course		3
GenEd SS		3	Engineering Technical Elective		3
Specialization course 1		3	Total Credit Hours		15
Total Credit Hours		16			

This is a recommended plan of study for the Bachelor of Science in Computer Science.
Please see the 2022-2023 Undergraduate Catalog for a complete explanation of degree requirements.

