Degree & Certificate Requirements

Computer Science Bachelor of Science (BS)

2025-2026 Degree Requirements

BS degrees require a minimum of 60 credits of 300- and 400-level courses

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CS 101	Intro to Computers & Information Technology	5		
CS 102	Programming Fundamentals [M/S]	5		
or				
CS& 131	Computer Science I C++ [M/S]	5		
CS 106	Database Systems	5		
CS 117	Computer Ethics	2		
CS 135	Cloud Fundamentals [RE]	5		
CS& 141	Computer Science I Java [M/S]	5		
CS 150	Computer Security [RE]	5		
CS 162	C++2 [RE]	5		
or				
CS 202	Programming Fundamentals 2 [RE]	5		
CS 206	Database Design [RE]	5		
CS 223	Unix/Linux [RE]	5		
CS 225	SQL Server Programming [RE]	5		
CS 236	Advanced Object Oriented Programming [RE]	5		
CS 250	HTML5-JavaScript/JQuery	5		
CS 302	Principles of Computer Architecture and Computer Systems	5		
CS 316	Cloud Computing HTML5 and PHP	5		
CS 321	Python for Data Processing	5		
CS 330	Principles of Computation and Algorithm Analysis	5		
CS 401	Software Analysis and Design	5		
CS 411	Agile Methodology & ePortfolio Planning	5		
CS 417	Contemporary Topics in Computer Science	5		
CS 421	Software Development Capstone	5		
CSIA 430	Unix Administration and Security	5		
CS 440	Operating System Design & Internals	5		
Select 3-6 credits from the following:				
CS 118	Customer Service [RE]	3		
CS 217	Internship [RE]	1–3		
Electives - Select 10 credits from any 100-200 level CS or CSIA courses				
		5		
		5		
Electives - Select 5 credits from any 300-400 level CS courses				
		5		
		Subtotal	**130-133**	

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
English & Communications - 10 credits:				
ENGL& 101	English Composition I [C]	5		
ENGL& 235	Technical Writing [C]	5		
or				
Any 5 credit English (ENGL) or Communications (CMST) course		5		
CMST 415	Applied Professional Communication	5		
Quantitative/Symbolic Reasoning - 10 credits:				
MATH 246	Discrete Structures [M/S] [Q/SR]	5		
PHIL& 120	Symbolic Logic [Q/SR]	5		
Quantitative/Symbolic Reasoning - select 5 credits from the following:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH& 142	Precalculus II [M/S] [Q/SR]	5		
MATH& 144	Precalculus I & II [M/S] [Q/SR]	5		
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
MATH& 148	Business Calculus [M/S] [Q/SR]	5		
MATH& 151	Calculus I [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
Humanities - select 5 credits from the following:				
ICS 310	American Diversity [H]	5		
PHIL 305	Professional Ethics [H]	5		
Mathematical & Natural Science* - select 10 credits from the following:				
Choose any lab science from the Mathematical and Natural Science Distribution.		5		
Additional Courses* - select 15 credits from the following:				
PSYC& 100 or any PSYC course higher than 100		5		
or				
SOC& 101	Intro to Sociology [S/B]	5		
PHIL& 120	Symbolic Logic [Q/SR]	5		
SOC 305	Cybercrime: A Sociological Perspective [S/B]	5		
AMGT 300	Cross-Cultural Logistics and Global Management	5		
or				
AMGT 320	Leadership & Organization Behavior	5		
	Subtotal	**50**		
	Total Credits Required	**180-183**		

Note:

* Course selections must meet the distribution requirements for the AA/DTA degree.

Students must earn a minimum 2.0 grade in all 300-400 level CS and CSIA courses.
Students must earn a minimum 2.0 or Pass (P) grade in all 100-200 level CS courses.
Required minimum 180 credits.
Required minimum cumulative GPA 2.0.
A combination of CA 120, CA 140, CA 150, and CA 160 can be substituted as equivalent for CS 101 for a total of 5 credits counted toward the degree.
Classes/credits used for substitution cannot be used to fulfill other requirements.
A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or advisor.