

COMPUTER SCIENCE B.S.

Program Requirements

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Minimum Requirements for Computer Science B.S.: 120 credits

Students must earn a C- grade or better in each course.

Code	Title	Credits
General University Requirements		
Complete the general university requirements. (https://catalog.uaf.edu/bachelors/#gurbachelorsdegreestext)		
General Education Requirements		
Complete the general education requirements. (https://catalog.uaf.edu/bachelors/#generaleducationrequirementstext)		36-40
As part of the general education requirements, complete the following:		
MATH F251X	Calculus I	
B.S. Degree Requirements		
Complete the B.S. degree requirements. (https://catalog.uaf.edu/bachelors/#bachelorofsciencetext)		16
As part of the B.S. requirements, complete the following:		
MATH F252X	Calculus II	
PHYS F211X	General Physics I	
PHYS F212X	General Physics II	
Any approved ethics course		
Computer Science Program Requirements		
Complete one of the following:		3
MATH F302	Differential Equations	
MATH F314	Linear Algebra	
MATH F371	Probability	
MATH F405	Abstract Algebra	
MATH F408	Mathematical Statistics	
MATH F426	Numerical Analysis	
MATH F460	Mathematical Modeling	
Complete the following:		
CS F201	Computer Science I	3
CS F202	Computer Science II	3
CS F241	Computer Hardware Concepts	4
CS F301	Assembly Language Programming	3
CS F311	Data Structures and Algorithms	3
CS F321	Operating Systems	3
CS F331	Programming Languages	3
CS F371	Computer Ethics and Technical Communication	3
CS F372	Software Construction	3
CS F411	Analysis of Algorithms	3
CS F441	System Architecture	3-4
or EE F443	Computer Engineering Analysis and Design	
CS F471	Senior Capstone I ¹	3

CS F472	Senior Capstone II ¹	3
MATH F253X	Calculus III	4
MATH F307	Discrete Mathematics	3
STAT F300	Statistics	3
Electives		
Electives in computer science at the F300 or F400 level, or approved electives.		9
General Electives		1-6
Total Credits		120

¹ Fulfills the baccalaureate capstone requirement.