

COMPUTER SCIENCE B.S./ M.S.

Admission Requirements

Complete the following admission requirements:

1. Computer science major, junior standing, with CS F311 completed.
2. GPA 3.25 or above based on a minimum of 24 credits. Students must maintain a cumulative GPA of 3.0 to remain in the program.
3. Submit a UAF graduate application for admission.

Program Requirements

< Back to Department (<https://catalog.uaf.edu/academic-departments/computer-science/>)

Minimum Requirements for Computer Science B.S./M.S.: 141 credits

Students must earn a C- grade or better in each course.¹

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		
Undergraduate Computer Science Program Requirements		
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 ²	3
CS F472	Senior Capstone II ²	3
MATH F253X	Calculus III	4
MATH F307	Discrete Mathematics	3
STAT F300	Statistics	3
MATH elective at the F300 or F400 level		3

General University Requirements

Complete the graduate general university requirements. (<https://catalog.uaf.edu/masters/#gurmastersdegreestext>)

Master's Degree Requirements

Complete the master's degree requirements. (<https://catalog.uaf.edu/masters/#masterofscienceproject>)

Graduate Computer Science Program Requirements

Complete the following:

CS F600	Professional Software Development	4
CS F601	Algorithms, Architecture and Languages	4
CS F690	Graduate Seminar and Project	3
CS F691	Graduate Seminar and Project	3
Approved electives at the F400 or F600 level ³		16

Exam

Pass a comprehensive exam in computer science theory and practice.

Total Credits **135-140**

¹ For the master's degree, a student must earn an A or B grade in F400-level courses. A grade of C will be accepted in F600-level courses provided a B grade point average is maintained.

² Fulfills the baccalaureate capstone requirement.

³ 9 credits maximum at the F400 level.

Note: This degree program must be completed in seven years or the student will be disqualified from the program. If a student is disqualified, a B.S. in computer science will be awarded if:

1. completed in 10 years, and
2. the student meets the B.S. degree requirements for computer science.