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
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Minimum Requirements for Computer Science B.S./M.S.: 141 credits
Students must earn a C- grade or better in each course.¹

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CS F201</td>
<td>Computer Science I</td>
<td>3</td>
</tr>
<tr>
<td>CS F202</td>
<td>Computer Science II</td>
<td>3</td>
</tr>
<tr>
<td>CS F241</td>
<td>Computer Hardware Concepts</td>
<td>4</td>
</tr>
<tr>
<td>CS F301</td>
<td>Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>CS F311</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CS F321</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CS F331</td>
<td>Programming Languages</td>
<td>3</td>
</tr>
<tr>
<td>CS F371</td>
<td>Computer Ethics and Technical Communication</td>
<td>3</td>
</tr>
<tr>
<td>CS F372</td>
<td>Software Construction</td>
<td>3</td>
</tr>
<tr>
<td>CS F411</td>
<td>Analysis of Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CS F441</td>
<td>System Architecture</td>
<td>3-4</td>
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<tr>
<td>or EE F443</td>
<td>Computer Engineering Analysis and Design</td>
<td></td>
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</tbody>
</table>

General University Requirements
Complete the general university requirements. (http://catalog.uaf.edu/bachelors/#gurbachelorsdegreestext)

General Education Requirements
Complete the general education requirements. (http://catalog.uaf.edu/bachelors/#generaleducationrequirementstext)
As part of the general education requirements, complete the following:
MATH F251X Calculus I

B.S. Degree Requirements
Complete the B.S. degree requirements. (http://catalog.uaf.edu/bachelors/#bachelorofsciontext)
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 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

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.