SOFTWARE ENGINEERING
FIVE-YEAR DUAL DEGREE
BACHELOR AND MASTER OF
SCIENCE PROGRAM

A five-year program is offered in Software Engineering at Fairfield’s School of Engineering, leading to a Bachelor of Science and Master of Science dual degree. This program embraces the educational objectives of the BS in Computer Science (http://catalog.fairfield.edu/undergraduate/engineering/computer-science-software-engineering/computer-science-accredited) program, as well as those of the graduate program in Software Engineering. It emphasizes experiential learning in terms of industrial internships following the sophomore year, and a final capstone project that guides students through a process of design and innovation at the level of a professional engineer. Graduates of the program master the knowledge and tools they need to create the next generation of software solutions to ever more complex technological and societal problems.

Requirements

Dual Degree Curriculum

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requirements for BS in Computer Science ¹</td>
<td>127</td>
<td></td>
</tr>
<tr>
<td>Select 8 additional graduate-level electives in Software Engineering ²</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Total Credits</td>
<td>151</td>
<td></td>
</tr>
</tbody>
</table>

¹ Requirements are those listed (http://catalog.fairfield.edu/undergraduate/engineering/computer-science-software-engineering/computer-science-accredited) for the BS in Computer Science. There are two options for graduation:

1. Students take SW 0550 and SW 0551 during year five, in lieu of EG 0390 and EG 0391 during the fourth year and claim both degrees at the end of 5th year
2. Students take EG 0390 and EG 0391 during the fourth year and claim the BS, and complete either SW 0550 and SW 0551 or SW 0560 and SW 0561 in the 5th year and claim the MS.

² Students should consult their advisor regarding these options.

Major electives are chosen from the department, with approval of advisor and department chair from among other courses offered in the School of Engineering.

Changing from Undergraduate to Graduate Status

Students may request a change of status from the undergraduate to the undergraduate/graduate combined plan of study at any point after the following conditions are met, with approval from their academic advisor and the department chair:

- Completed 60+ credits toward the BS in Computer Science.
- Successfully completed 6 courses in Software Engineering or Computer Science with a GPA of 3.00 or higher.
- Have an overall GPA of 3.00 or higher.

Students must discuss with their academic advisor which graduation option should they choose before registration for classes for their fourth year. Depending on the option, they could receive the BS at the end of their fourth year if all undergraduate requirements are met, or simultaneously with the MS at the end of the fifth year otherwise.

A minimum of 30 credits must be completed at the graduate level.