The School of Engineering and Applied Science offers a dual bachelor of science with a major in mechanical engineering (http://bulletin.gwu.edu/engineering-applied-science/mechanical-aerospace-engineering/bs-mechanical-engineering/) and master of science in the field of mechanical engineering (http://bulletin.gwu.edu/engineering-applied-science/mechanical-aerospace-engineering/ms/) degree program. The program allows students to take 9 graduate credits as part of their undergraduate program, thereby decreasing the number of credits normally required for the master’s degree. All requirements for both degrees must be fulfilled.

Students interested in the dual degree program should confer with the department’s graduate adviser early in their junior year. Visit the program website (https://www.mae.seas.gwu.edu/5-year-dual-degree-program/) for additional information.

### REQUIREMENTS

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<tr>
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<tr>
<td><strong>First semester</strong></td>
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<td>CHEM 1111</td>
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<td>PHYS 1022</td>
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<td>APSC 3115</td>
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<td>MAE 3126</td>
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<td>MAE 3166W</td>
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<td>MAE 3192</td>
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Technical elective

Technical elective

Humanities or social sciences elective

**Eighth semester**

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<tr>
<td>Humanities or social sciences elective</td>
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</table>

1. Course satisfies the University General Education Requirement ([http://bulletin.gwu.edu/university-regulations/general-education/](http://bulletin.gwu.edu/university-regulations/general-education/)) in math, science, and writing.

2. To satisfy the SEAS Humanities and Social Science requirement, all mechanical engineering students must take one humanities course and two social Sciences courses from University General Education requirement; PHIL 2135, and two additional humanities or social science or non-technical courses from the MAE Department's pre-approved list of electives. All courses selected to satisfy this requirement must be at least 3-credits each. NOTE: Students in the patent law concentration must take MAE 2170 in lieu of one of the additional humanities or social science or non-technical course.

3. All technical electives must be approved by the undergraduate advisor. On a case-by-case basis, technical electives may be chosen from other departments if approved by both the undergraduate advisor and the department chair.

Technical electives are chosen from MAE courses in the 3000, 4000, and 6000 series, excluding:

<table>
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<tr>
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<td>MAE 4172</td>
<td>Engineering Design and the Patent System</td>
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<td>MAE 6298</td>
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<td>MS Thesis Research</td>
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<td>&amp; MAE 6999</td>
<td>and MS Thesis Research</td>
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