AEROSPACE ENGINEERING, MS

for the degree of Master of Science in Aerospace Engineering

department website: https://www.ae.illinois.edu/
department faculty: Aerospace Engineering Faculty (https://ae.illinois.edu/directory/faculty)
overview of admissions & requirements: Aerospace Engineering (http://aerospace.illinois.edu/admissions/graduate)
college website: https://grainger.illinois.edu/academics/graduate
department faculty: Aerospace Engineering Faculty (https://ae.illinois.edu/directory/faculty)
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e-mail: aerospace@illinois.edu

for the degree of Master of Science in Aerospace Engineering

The Master of Science in Aerospace Engineering is also offered online.
The degree requirements are the same as for the on-campus non-thesis M.S. program and the degree awarded to online students is the same degree awarded to resident students. Online students have five years to complete the program.

Online students should develop a course program plan in consultation with their advisor. Suggested program tracts (https://aerospace.illinois.edu/academics/graduate/suggested-program-tracks) are provided for each of the three main technical divisions in the department:

1. Aerodynamics, Fluid Mechanics, Combustion and Propulsion (AFMCP);
2. Astrodynamics, Controls and Dynamical Systems (ACDS); and

For additional details and requirements, refer to the department’s Website (http://aerospace.illinois.edu) and the Graduate College Handbook (http://grad.illinois.edu/gradhandbook).

Thesis Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AE 599</td>
<td>Thesis Research (min-max applied toward the degree)</td>
<td>8</td>
</tr>
<tr>
<td>AE 590</td>
<td>Seminar (registration of 0 hours every term while in residence)</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Aerospace Engineering breadth requirement (<a href="https://aerospace.illinois.edu/academics/graduate/breadth-and-mathematics-requirements">https://aerospace.illinois.edu/academics/graduate/breadth-and-mathematics-requirements</a>)</td>
<td>6-8</td>
</tr>
<tr>
<td></td>
<td>One mathematics course from an approved list (<a href="https://aerospace.illinois.edu/academics/graduate/breadth-and-mathematics-requirements">https://aerospace.illinois.edu/academics/graduate/breadth-and-mathematics-requirements</a>)</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>Elective courses chosen in consultation with an advisor (subject to Other Requirements and Conditions below)</td>
<td>12-15</td>
</tr>
<tr>
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<td>Total Hours</td>
<td>32</td>
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Other Requirements and Conditions

Other Requirements and Conditions may overlap

A minimum of 16 hours of AE course work at the 400-level and above. (May include up to 8 hours of AE 599.)

A minimum of 12 500-level credit hours overall applied toward the degree, with 8 hours being AE courses. (May include up to 4 hours of AE 599.)

No hours of AE 597 (or other independent study) may be applied in this option.

Attendance at all Aerospace Engineering AE 590 seminars each semester while on campus.

Minimum GPA: 3.0

Non-Thesis Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>AE 590</td>
<td>Seminar (registration for 0 hours every term while in residence)</td>
<td>0</td>
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<td>Aerospace Engineering breadth requirement (<a href="https://aerospace.illinois.edu/academics/graduate/breadth-and-mathematics-requirements">https://aerospace.illinois.edu/academics/graduate/breadth-and-mathematics-requirements</a>)</td>
<td>9-12</td>
</tr>
<tr>
<td></td>
<td>One mathematics course from an approved list (<a href="https://aerospace.illinois.edu/academics/graduate/breadth-and-mathematics-requirements">https://aerospace.illinois.edu/academics/graduate/breadth-and-mathematics-requirements</a>)</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>Elective courses chosen in consultation with an advisor (subject to Other Requirements and Conditions below)</td>
<td>16-20</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>32</td>
</tr>
</tbody>
</table>

Other Requirements and Conditions

Other Requirements and Conditions may overlap

A minimum of 16 hours of AE course work at the 400-level and above.

A minimum of 12 500-level credit hours overall applied toward the degree, with 8 hours being AE courses.

A maximum of 4 hours of AE 597 (or other independent study) may be applied toward the elective course work requirement.

Attendance at all Aerospace Engineering AE 590 seminars each semester while on campus.

Minimum GPA: 3.0
Generally, students holding a research assistantship will not be allowed in the non-thesis option.

A departmental petition is required to change from the thesis to the non-thesis option and vice-versa.  

For additional details and requirements refer to the department’s Website (https://aerospace.illinois.edu) and the Graduate College Handbook (http://grad.illinois.edu/gradhandbook).