MECHANICAL ENGINEERING, PHD

for the degree of Doctor of Philosophy Major in Mechanical Engineering

For the Ph.D. program, a preliminary examination is taken after the qualifying examination. A minimum of six months should elapse between the successful completion of the doctoral preliminary examination and the doctoral final examination (oral dissertation defense). For additional details and requirements refer to the department's graduate program requirements (http://mechanical.illinois.edu/graduate) and the Graduate College Handbook (http://grad.illinois.edu/gradhandbook). Students can learn more about Qualifying Exam information here (http://mechanical.illinois.edu/graduate/phd-programs). Information on the Advance math requirement can be found here (http://mechanical.illinois.edu/graduate/mechse-graduate-degrees/phd-mechanical-engineering).

For additional details and requirements refer to the department's graduate program requirements (http://mechanical.illinois.edu/graduate/mechse-graduate-degrees) and the Graduate College Handbook (http://grad.illinois.edu/gradhandbook).

Entering with approved M.S. or M.A. degree

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 599</td>
<td>Thesis Research (min-max applied toward the degree)</td>
<td>44</td>
</tr>
<tr>
<td>MSE 492</td>
<td>Lab Safety Fundamentals (1 hour if not taken while completing the Master's degree; credit does not apply toward the degree)</td>
<td>0</td>
</tr>
<tr>
<td>ME 590</td>
<td>Seminar (registration for 1 hour every term while in residence; credit does not apply toward the degree)</td>
<td>0</td>
</tr>
</tbody>
</table>

Advanced math requirement from an approved list 1: 3-4

Elective courses – chosen in consultation with advisor: 16-17 (subject to Other Requirements and Conditions below)

Total Hours: 64

Other Requirements and Conditions (may overlap) 2:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum 500-level credit hours applied toward the degree</td>
<td>16</td>
</tr>
</tbody>
</table>

Maximum hours of ME 597 or TAM 597 (or other approved independent study) which may be applied only toward the elective course work requirement: 4

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

No ME 599 credit may be applied toward the elective course work requirement.

Minimum GPA: 3.0

Entering with approved B.S. or B.A. degree

A student entering with a bachelor's degree has the option of a direct Ph.D. program. It does not award an M.S. degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 599</td>
<td>Thesis Research (min-max applied toward the degree)</td>
<td>52</td>
</tr>
<tr>
<td>MSE 492</td>
<td>Lab Safety Fundamentals (1 hour if not taken while completing the Master's degree; credit does not apply toward the degree)</td>
<td>0</td>
</tr>
<tr>
<td>ME 590</td>
<td>Seminar (registration for 1 hour every term while in residence; credit does not apply toward the degree)</td>
<td>0</td>
</tr>
</tbody>
</table>

Advanced math requirement from an approved list 1: 3-4

Elective courses – chosen in consultation with advisor: 40-41 (subject to Other Requirements and Conditions below)

Total Hours: 96

Other Requirements and Conditions (may overlap) 2:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum 500-level credit hours applied toward the degree</td>
<td>24</td>
</tr>
</tbody>
</table>

Maximum hours of ME 597 or TAM 597 (or other approved independent study) which may be applied only toward the elective course work requirement: 8

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

No ME 599 credit may be applied toward the elective course work requirement.

Continuous registration is required after the preliminary exam and until dissertation deposit, while on campus and during semester of final defense.

Ph.D. exam and dissertation requirements:

Qualifying Exam: Qualifying examinations should be taken no later than the second calendar semester after initial enrollment.

Preliminary exam

Final exam or dissertation defense

Dissertation deposit

1 Advanced math requirement approved list (http://mechanical.illinois.edu/graduate/mechse-graduate-degrees/phd-mechanical-engineering)

2 For additional details and requirements refer to the department's graduate program requirements (http://mechanical.illinois.edu/graduate/mechse-graduate-degrees) and the Graduate College Handbook (http://grad.illinois.edu/gradhandbook).

Information listed in this catalog is current as of 12/2019
Continuous registration is required after the preliminary exam and until dissertation deposit, while on campus and during semester of final defense.

Ph.D. exam and dissertation requirements:

Qualifying Exam: Qualifying examinations should be taken as early as possible, generally no later than the third semester.

- Preliminary exam
- Final exam or dissertation defense
- Dissertation deposit

Minimum GPA: 3.0

1 Advanced math requirement approved list (http://mechanical.illinois.edu/graduate/mechse-graduate-degrees/phd-mechanical-engineering)

2 For additional details and requirements refer to the department's graduate program requirements (http://mechanical.illinois.edu/graduate/mechse-graduate-degrees) and the Graduate College Handbook (http://grad.illinois.edu/gradhandbook).