Faculty research by ISE faculty is pursued in the following fields:

- computer-aided design
- data analytics
- optimization
- design systems
- manufacturing systems
- nondestructive testing and evaluation
- control
- robotics
- real-time system dynamics and simulation
- operations
- management
- nondestructive simulation
- financial engineering
- decision making
- supply chain research
- human factors
- logistics
- biomechanics

Members of the ISE Department have access to a wide range of excellent research facilities. These laboratories support a wide range of activity and are described at the department’s research laboratories website (https://ise.illinois.edu/research/labs/).

Admission Requirements

Applicants who have completed degree requirements in an accredited engineering program or its equivalent are required to have a research advisor and applicants are encouraged to contact department faculty (https://ise.illinois.edu/directory/faculty.html) in their areas of interest to inquire about possible research and funding opportunities.

Opportunity exists for specializing in computational science and engineering via the Computational Science & Engineering (http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/) optional graduate concentration.

Financial Aid

Qualified students may compete for financial assistance in the form of teaching/graduate/research assistantships, fellowships, grants, and tuition waiver scholarships. Under certain conditions, fellowships may be augmented by part-time assistantships.

Thesis Option

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE 599</td>
<td>Thesis Research</td>
<td>8</td>
</tr>
<tr>
<td>SE 590</td>
<td>Seminar (registration for 0 hours every term while in residence)</td>
<td>0</td>
</tr>
</tbody>
</table>

Total Hours 32

Other Requirements and Conditions (may overlap)

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

Non-Thesis Option

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<th>Code</th>
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<th>Hours</th>
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<tr>
<td>SE 594</td>
<td>Project Design</td>
<td>4</td>
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<tr>
<td>SE 590</td>
<td>Seminar (registration for 0 hours every term while in residence)</td>
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</tr>
</tbody>
</table>

Total Hours 36

Information listed in this catalog is current as of 08/2024
Other Requirements and Conditions (may overlap)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
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<tbody>
<tr>
<td>Minimum 500-level credit hours applied toward the degree:</td>
<td>12</td>
</tr>
<tr>
<td>Minimum program GPA:</td>
<td>3.0</td>
</tr>
</tbody>
</table>

For the degree of Master of Science in Systems & Entrepreneurial Engineering

Department of Industrial & Enterprise Systems Engineering
Department Head: Jeff Shamma (jshamma@illinois.edu)
Associate Head of Graduate Studies: Ramavarapu S Sreenivas (rsree@illinois.edu)
Department of Industrial & Enterprise Systems Engineering website (https://ise.illinois.edu/)
Department of Industrial & Enterprise Systems Engineering faculty (https://ise.illinois.edu/directory/faculty.html)
Program website (https://ise.illinois.edu/graduate/degrees-and-programs/master-science-systems-entrepreneurial-engineering/)
117 Transportation Building, 104 S Mathews Ave, Urbana, IL 61801 (217) 333-2731
Department of Industrial & Enterprise Systems Engineering email (ise-grad@illinois.edu)

Grainger College of Engineering
Grainger College of Engineering website (https://grainger.illinois.edu/)

Admissions
Department of Industrial & Enterprise Systems Engineering Overview of Admissions & Requirements (https://ise.illinois.edu/graduate/admissions/)
Graduate College Admissions & Requirements (https://grad.illinois.edu/admissions/apply/)

Information listed in this catalog is current as of 08/2024