MATERIALS ENGINEERING, MEnGR

for the degree of Master of Engineering Major in Materials Engineering

Students who are admitted to the M. Eng. program are responsible for finding a suitable internship. Department or college staff may be able to help students in their search for a suitable placement. Internship but the department does not guarantee a placement. The MSE 585 (http://catalog.illinois.edu/search/?P=MSE%20585) internship requires approval by the departmental Director of Graduate Studies to ensure that it matches the student's individual career objectives and meets the learning goals of the program. Students taking an internship as part of their undergraduate B.S. program should also check with the Director of Graduate Studies; his/her approval is required if the student is already accepted in the combined B.S./M.Eng. Program. Students returning to the university after having had materials engineering employment experience, if it is deemed appropriate, may use that as their internship and base their report on that experience. For additional details and requirements, please refer to the department's Graduate Degree Requirements Handbook (https://matse.illinois.edu/academics/graduate-programs) and the Graduate College Handbook (http://grad.illinois.edu/gradhandbook). Students will be expected to present an oral report on their internship in either MSE 529 (http://catalog.illinois.edu/search/?P=MSE%20529) or MSE 559 (http://catalog.illinois.edu/search/?P=MSE%20559), as appropriate, the semester following completion of the internship.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSE 492</td>
<td>Lab Safety Fundamentals (credit does not apply toward the degree)</td>
<td>0</td>
</tr>
<tr>
<td>MSE 585</td>
<td>Materials Engrg Practicum (The equivalent of two semesters of industrial internships or co-ops (30 weeks total; one of the semesters can be during the B.S. program or prior to enrollment).)¹</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Two MSE area specialty courses in the student's chosen area of specialization.</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>MSE area specialty courses in one area outside the student's chosen area of specialization (subject to Other Requirements and Conditions below)</td>
<td>3-6</td>
</tr>
<tr>
<td></td>
<td>Technical elective course - Chosen from list appropriate for the student's area of specialization</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective courses – At least 10 hours of these elective courses shall be College of Engineering courses in one or more of the areas of business, technology management, and entrepreneurship as listed on an approved list available from the department. There is the possibility of obtaining one of the Technology Entrepreneur Center Certificates.</td>
<td>13-20</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>36</td>
</tr>
</tbody>
</table>

Other Requirements and Conditions ²

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Requirements and Conditions may overlap</td>
<td></td>
</tr>
<tr>
<td>Minimum hours of MSE course work</td>
<td>11</td>
</tr>
</tbody>
</table>

Minimum of 500-level credit hours overall applied toward the degree.

MSE 595 (0 or 1 hour) must be taken every semester in the first two years of residence. A maximum of 2 hours may be applied toward the degree.

A maximum of 2 hours of MSE 529 or MSE 559 in combination may be applied toward the degree.³

Ceramics, Electronic Materials, and Metallurgy area majors take MSE 529 every semester in residence; Polymer and Biomaterials area majors take MSE 559 every semester in residence

One or two MSE area specialty courses in one area outside the student’s chosen area of specialization are required (two if one was not taken as part of the B.S. program)

Minimum GPA: 3.0

¹ Students who are admitted to the M. Eng. program are responsible for finding a suitable internship. Department or college staff may be able to help students in their search for a suitable placement. Internship but the department does not guarantee a placement. The MSE 585 internship requires approval by the departmental Director of Graduate Studies to ensure that it matches the student’s individual career objectives and meets the learning goals of the program. Students taking an internship as part of their undergraduate B.S. program should also check with the Director of Graduate Studies; his/her approval is required if the student is already accepted in the combined B.S./M.Eng. Program. Students returning to the university after having had materials engineering employment experience, if it is deemed appropriate, may use that as their internship and base their report on that experience.

² For additional details and requirements, please refer to the department’s Graduate Degree Requirements Handbook (http://mse.illinois.edu/academics/grad/handbook.html) and the Graduate College Handbook (http://grad.illinois.edu/gradhandbook).

³ Students will be expected to present an oral report on their internship in either MSE 529 or MSE 559, as appropriate, the semester following completion of the internship.