# Materials Science and Engineering (PhD)

## Degree Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
<th>Counts towards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td>27</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSE 601</td>
<td>Seminar</td>
<td></td>
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</tbody>
</table>

Select a minimum of 9 credit hours of 500- to 700-level MSE courses approved in conjunction with the academic committee.

Select a minimum of 18 credit hours of 700-level courses approved in conjunction with the academic committee.

<table>
<thead>
<tr>
<th>Additional Courses</th>
<th>45</th>
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</thead>
<tbody>
<tr>
<td>MSE 801</td>
<td>Seminar</td>
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</tr>
<tr>
<td>MSE 893</td>
<td>Doctoral Supervised Research</td>
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<tr>
<td>MSE 885</td>
<td>Doctoral Supervised Teaching</td>
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<tr>
<td>MSE 895</td>
<td>Doctoral Dissertation Research</td>
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</tbody>
</table>

**Total Hours**: 72

## Faculty

**Professors**
- Harald Ade
- Aram Amassian
- David Aspnes
- Salah M.A. Bedair
- Donald Brenner
- Ramon Collazo
- Jerome Cuomo
- Jan Genzer
- Reza Ghiladi
- Ola Harrysson
- Douglas Irving
- Jacob L. Jones

**Associate Professors**
- Djamel Kaoumi
- Frederick Kish
- Thomas LaBean
- James D. Martin
- Korukonda Murty
- John F. Muth
- Jagdish Narayan
- Roger Jagdish Narayan
- Gregory N. Parsons
- Melissa Pasquinelli
- Zlatko Sitar
- Franky So
- Richard Spontak
- Martin Thuo
- Joseph B. Tracy
- Daryoosh Vashaee
- Yaroslava Yingling
- Xiangwu Zhang
- Yong Zhu

**Assistant Professors**
- Bharat Gwalani
- Timothy Horn
- Yin Liu
- Martin Seifrid
- Ruijuan Xu

**Research Professor**
- Christopher Rock
Teaching Assistant Professor
Alexey Gulyuk

Adjunct Professors
Barry Farmer
John Prater

Adjunct Associate Professor
Charles Guarnieri

Emeritus Faculty
Charles Balik
Elizabeth Dickey
Carl C. Koch
Yuntian Zhu