# 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></td>
<td><strong>Required Courses</strong></td>
<td></td>
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<tr>
<td></td>
<td>Select a minimum of 9 credit hours of 500- to 700-level MSE courses approved in conjunction with the academic committee</td>
<td>27</td>
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<tr>
<td></td>
<td>Select a minimum of 18 credit hours of 700-level courses approved in conjunction with the academic committee</td>
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<tr>
<td>MSE 601</td>
<td>Seminar</td>
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<td></td>
<td><strong>Additional Courses</strong></td>
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<tr>
<td>MSE 801</td>
<td>Seminar</td>
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<tr>
<td>MSE 893</td>
<td>Doctoral Supervised Research</td>
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<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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<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td></td>
<td>72</td>
</tr>
</tbody>
</table>

## 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
- Djamel Kaoumi
- Frederick Kish
- Frederick Kish
- Thomas LaBean
- James D. Martin
- John F. Murth
- Korukonda Murty
- 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

### Associate Professors

- Veronica Augustyn
- Rajeev Gupta
- Jagannadham Kasichainula
- Nina Wisinger

### Assistant Professors

- Bharat Gwalani
- Timothy Horn
- Yin Liu
- 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