# Nuclear Engineering (MS)

## Master of Science 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>Core Courses</strong></td>
<td>15</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 500 - 796 level courses approved in conjunction with the academic committee*</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Research Courses</strong></td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>NE 693</td>
<td>Master's Supervised Research</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NE 695</td>
<td>Master's Thesis Research</td>
<td></td>
<td></td>
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<tr>
<td>NE 699</td>
<td>Master's Thesis Preparation</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Interdisciplinary Courses</strong></td>
<td>9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&quot;Interdisciplinary Courses&quot; are approved in conjunction with the academic committee to meet 30 total hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td>30</td>
<td></td>
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</tbody>
</table>

* Students are required to take one course above the 700 level.

### Accelerated Bachelor's/Master's Degree Requirements

The Accelerated Bachelors/Master’s (ABM) degree program allows exceptional undergraduate students at NC State an opportunity to complete the requirements for both the Bachelor’s and Master’s degrees at an accelerated pace. These undergraduate students may double count up to 12 credits and obtain a non-thesis Master’s degree in the same field within 12 months of completing the Bachelor’s degree, or obtain a thesis-based Master’s degree in the same field within 18 months of completing the Bachelor’s degree.

This degree program also provides an opportunity for the Directors of Graduate Programs (DGPs) at NC State to recruit rising juniors in their major to their graduate programs. However, permission to pursue an ABM degree program does not guarantee admission to the Graduate School. Admission is contingent on meeting eligibility requirements at the time of entering the graduate program.

## Faculty

### Full Professors

Dmitriy Y. Anistratov  
Yousry Y. Azmy  
Mohamed Abdelhay Bourham  
Nam Truc Dinh  
Joseph M. Doster  
John G. Gilligian  
Ayman I. Hawari  
Kostadin Nikolov Ivanov  
John Kelly Mattingly  
Korukonda Linga Murty  
Steven Christopher Shannon

### Associate Professors

Maria Nikolova Avramova  
Igor A. Bolotnov  
Robert Bruce Hayes  
Djamel Kaoumi

### Assistant Professors

Alexander William Bataller  
Benjamin Warren Beeler  
Mihai Aurelian Diaconeasa  
Jia Hou  
Katharina Stapelmann  
Xu Wu  
Ge Yang

### Practice/Research/Teaching Professors

Eric Paul Loewen  
Abderrafi M. Ougouag  
Abderrafi Mohammed El-Amine Ougouag  
Scott Parker Palmtag  
Sebastian Schunert  
Bernard Wehring  
John Frederick Zino

### Professors Emeritus

Robin Pierce Gardner  
Paul J. Turinsky

### Adjunct Faculty

Pavel Bokov
Shannon Michelle Bragg-Sitton
Erik Matthews Brubaker
Jon Dahl
Jeffrey Alan Favorite
David Lindsay Green
Steven Hamilton
Vincent Joseph Jodoin
Philip Allan Kraus
David Kropaczek
Nilesh Kumar
Jeffrey William Lane
Elijah H. Martin
William David Pointer
Curtis Lee Smith
Rene Van Geemert
Louise Gail Worrall
Robert Joseph Zerr