# Mechanical Engineering (PhD)

## Degree Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses</strong></td>
<td></td>
<td>39</td>
</tr>
<tr>
<td><strong>Minor Courses (Optional)</strong></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td><strong>Research Courses</strong></td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>MAE 895</td>
<td>Doctoral Dissertation Research (^1)</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td>72</td>
</tr>
</tbody>
</table>

1. "Required Courses" must consist a minimum of two 700-level courses, and may consist of up to five non-MAE courses approved in conjunction with the academic committee.

## Additional Requirements

- Students with a previous MS degree from NCSU:
  - without minor – may transfer up to 18 credit hours
  - with minor – may transfer up to 30 credit hours
- Students with a previous MS from outside NCSU:
  - without minor – may transfer up to 18 credit hours
  - with minor – may transfer up to 18 credit hours

## Faculty

### Full Professors

- Gregory D. Buckner
- Tarek Echekki
- He Huang
- Jack Ray Edwards Jr
- Srinath Ekkad
- Tiegang Fang
- Ashok Gopalarathnam
- Richard David Gould
- Xiaoning Jiang
- Richard F. Keltie
- Clement Kleinstreuer
- Andrey Valerevich Kuznetsov
- Hong Luo
- Kevin M. Lyons
- Gracious Ngaile

### Associate Professors

- Kara Jo Peters
- Afsaneh Rabiei
- Lawrence M. Silverberg
- Juei Feng Tu
- Fen Wu
- Fuh-Gwo Yuan
- Yong Zhu
- Mohammed A. Zikry

### Assistant Professors

- Matthew Bryant
- Jeffrey W. Eischen
- Scott M. Ferguson
- Charles Edward Hall Jr.
- Hsiao-Ying Shadow Huang
- Andre P. Mazzoleni
- Venkat Narayanaswamy
- Brendan O’Connor
- Katherine Saul
- Alexei V. Saveliev
- Hooman Vahedi Tafreshi
- Christopher R. Vermillion
- Cheryl Xu

### Assistant Professors

- Landon Grace
- Kenneth Granlund
- Timothy Joseph Horn
- Arun Kumar Kota
- Jun Liu
- Marie Muller
- Mark R. Pankow
- Jason F. Patrick
- Jong Eun Ryu
- Pramod K. V. Subbareddy
- Jie Yin
Practice/Research/Teaching Professors
Stephen D. Terry

Emeritus Faculty
John A. Bailey
Herbert Martin Eckerlin
Francis J. Hale
Franklin D. Hart
Hassan A. Hassan
Thomas H. Hodgson
Richard R. Johnson
David S. McRae
James C. Mulligan
Robert T. Nagel
Larry H. Royster
Ronald O. Scattergood
Furman Y. Sorrell Jr.
John S. Strenkowski
Carl F. Zorowski

Lecturer
Steven Berg